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**Rochester Institute of Technology**

A Thesis Submitted to the Faculty of  
The College of Imaging Arts and Sciences  
In Candidacy for the Degree of  
Master of Fine Arts

**The Impact of Digital Imaging on Visual Communication**

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May 22, 1997

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A special thank you to my mom and dad, Mr. and Mrs. John M. Coulter, for all their love, support and encouragement throughout my seven years of college education. Remember, "what comes around, goes around".

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## **Dedication**

This thesis is dedicated to my great aunt, Louise Coulton, who lived to be 100 years old. She always believed in my talents and abilities and encouraged me to develop my interests in the arts. I think she would be pleased to realize that I have achieved the goals I set for myself.

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## Table of Contents

Approvals	
Permission	
Acknowledgments	
Dedication	
Thesis Project Definition	1 - 2
Research and Analysis	3 - 4
Synthesis	5 - 8
Ideation	9 - 10
Evaluation	11
Implementation	12
Dissemination	13
Retrospective Evaluation	14
Conclusion	15
Glossary Terms	16
Bibliography	17 - 18
Appendices	
Appendix 1	20 - 35
Thesis Planning Report	
Appendix 2	36 - 38
Whole Systems Map Ideation	
Appendix 3	39 - 42
Curtis Circulation Company Publication Information	
Appendix 4	43
Categorization of Visual Examples	
Appendix 5	44 - 48
Letters for Information Gathering	
Appendix 6	49
Thesis Show Panel Ideation	
Appendix 7	50 - 54
Final Thesis Show Panels	
Appendix 8	55 - 56
Logo Ideation	
Appendix 9	57
Navigational Map Ideation	
Appendix 10	58 - 60
Application Frame Ideation	
Appendix 11	61 - 69
Final Application Frames	
Appendix 12	70 - 71
Evaluation Form and Results	

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## Thesis Project Definition

*Introducing, identifying and understanding the nature of the problem - including history, situation and goals.*

"Advertising nourishes the consuming power of men. It created wants for a better standard of living. It sets up before a man the food of a better home, better clothing, better food for himself and his family. It spurs individual exertion and greater production."

*Winston Churchill: This is Advertising, James Playsted Wood*

"Think what the people would like to see and show them that. That's about all there is to advertising isn't it?"

*Lewis B. Jones*

"Good Design, good typography is a function of information and inspiration, of the conscious and unconscious, of yesterday and today, of fact and fantasy, work and play, craft and art."

*Paul Rand*

The purpose of this thesis project was to determine whether or not digital imaging had an impact on visual communication, specifically graphic design and advertising design. One main goal was to attempt to define a difference between two fields of visual communication; graphic design and advertising design. For this project visual communication has been defined as communicating messages or information through the use of visual media such as print, photography, illustration, multimedia, world wide web and television. Graphic design and advertising design are two specific fields of study that fall under this more general term.

With a background in applied photography which concentrated on advertising and the psychology of imagery, there has always been an interest in the design of advertisements. Capturing the attention of and having a positive effect on viewers has always been a personal and professional goal. Deciding to study graphic design and learn how to inform an audience in a clear and logical manner could only be a beneficial choice, resulting in producing visually pleasing work. The layout and design of typography and imagery on the printed page is of utmost importance in accomplishing this task. Once enrolled in the Graduate Graphic Design program at Rochester Institute of Technology, trying to recognize and realize the difference between graphic design and advertising design proved to be somewhat difficult; they seemed to be very much alike.

Having the ability and knowledge to use a computer as a tool for "editing, enhancing and altering images" has been quite useful to designers in the visual communication fields, as well as intriguing in terms of the current capabilities technology has in today's society. Of course the computer can not 'design' for you but, as a tool, is quite an invention. Just because the user has the knowledge and ability to place typography and imagery on a page does not mean he or she has created a well designed piece. A skilled designer integrates form with function. A computer has no capability to

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## Thesis Project Definition *continued*

accomplish this for you. Before the computer, photographers were manipulating photographs in traditional darkroom settings. Such an environment is not conducive to extensive experimentation with techniques and often consumes valuable time. Making mistakes either meant that a photographer had to start over, wasting paper, or that a new unexpected result had been created. The advantage of a computer is that you can, by the click of a button, *undo* the mistake you have made or save the mistake and go back to it later for further exploration. Often special effects, especially concerning the use of typography, are unobtainable in the darkroom. Certain desired effects can be achieved much quicker and easier on a computer through the application of special effects.

Another factor of the thesis project was the decision of which kind of media to focus on. Two possibilities, where digital imaging appears most prevalent, were television and print. It is likely that you have seen at least one example where digital imaging is used in television advertising. Talking, singing, dancing bears and frogs from Pepsi, Coke, and Budweiser instantly come to mind. By the end of this project, it is hoped the reader will be more aware of examples where digital imaging has been employed in the development of printed design pieces.



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## **Research and Analysis**

*Describing facts, principles, theories or relationships that have been discovered to help to solve the problem.*

During the first year of the Graduate Graphic Design program at Rochester Institute of Technology, each student was required to select an art and design movement to be researched and referred to throughout the entire year. A previous degree in photography and a developing interest in utilizing the computer for filter effects, color experimentation, and image montage to create 'surreal' environments, it seemed logical to study the art movement of Surrealism.

After studying and designing artwork using techniques that reflected the Surrealism movement, the decision to continue and expand this area of thinking seemed appropriate for the thesis project. Digital imaging can be considered a new tool for a Surrealist, especially when montaging and applying special effects to an image. Three proposals were addressed to Professor R. Roger Remington at the beginning of the fall quarter. All proposals were concerned with advertising, digital imaging and/or print media issues. As per his suggestion, incorporating graphic design content was a must, considering this is a graphic design thesis. The next step involved creating a thesis planning report which defined the purpose, intent, goals and time frame for the thesis project (see Appendix 1).

The main purpose of this thesis was to learn more about two visual communication fields of study as possible future career venues. Another purpose was to inform students graduating from either high school or college of the similarities and differences between two visual communication fields for their personal benefit in choosing fields to study or possible future career paths for themselves.

Because of the wide range of media used in contemporary design, the decision to limit the thesis to print media, specifically magazines, was necessary in order to stay focused within the allotted time for the project. Magazines are seen and easily obtained by everyone. This seemed to be a reasonable medium to focus on.

After compiling information in the planning report, research began by collecting relevant books, magazine articles and professional opinions as well as finding program descriptions from other colleges of art and design. A phone call to a publishing company yielded a fax reply, listing general categories of magazines available to the public, compiled by Curtis Circulation Company (see Appendix 3). This list includes all categories of publications on the market today. Because many are hobby related and contain a great deal of information on specific topics, the decision to not include them was made. The advertisements in these hobby magazines mainly contained photographs of particular subjects where digital imaging was not a factor.

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## Research and Analysis *continued*

From a large collection of past and present magazines, image gathering took place. The intent was to find examples in all types of newsstand publications which addressed a range of audiences and a variety of subject matter. The next step included placing each found example into five different categories (see Appendix 4). The first categorization was by *subject matter* which included alcohol, computer software and professional equipment. The second categorization was by *intended audiences*; male, female or both. Next, how *visual rhetoric* was used; addition, exaggeration, substitution, or subtraction. Another categorization was deciding whether the example was considered a *graphic design* or an *advertising design* product. The last categorization organized examples based on *primary manipulation* - whether digital imaging was mainly applied to the typography or the imagery in the example.

It was apparent that more examples were found where digital imaging had been applied to imagery as opposed to typography. This could be a very logical way of keeping the typography legible for readers not as familiar with type variations and experimentation.

As stated earlier, a letter was written to many design professionals and educators asking what they thought the difference between graphic design and advertising design was and how they felt digital imaging has impacted design fields today. Unfortunately, not many replies were received, even after a second copy had been sent. Of the replies received some answers were vague, others proved to be helpful (see Appendix 5). Members of the Board of Directors from the Graphic Design Education Association (GDEA), American Institute of Graphic Arts (AIGA) chapter presidents and members, various design professionals online and RIT faculty members were sent copies of this letter.

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## **Synthesis**

*Describing interrelationships and patterns - sorting, sequencing, ordering information or parts of the problem.*

When beginning this project the idea of formulating a logo as an identity mark seemed appropriate. A mark that represented visual communication and digital imaging together was the goal. This would enable the viewer to recognize this body of work as separate from other studies.

A whole systems map, to be included in the thesis planning report, was designed to determine what information would be included and to what extent it would be discussed.

The four thesis show panels and a computer application displayed for two weeks in the Bevier Gallery at RIT were a representation of research, analysis and work in progress. The four panels and the computer application were important to display as an introduction to the final product; an educational interactive CD-ROM. They enabled a viewer 1) to become familiar with the logo and title of the project 2) to see the different visual examples used throughout the application and the categories they were placed in 3) to see the flow and kind of information addressed within the application 4) to view some sample frames from the project without having to rely on interacting with the actual computer application. The computer station was included to allow the viewer to interact with the application and experience the information in a sequence of their choosing.

## **Logo**

Creating a distinct and unified form which communicates what this project is about was an important factor in the beginning stages of the thesis development. Visual communication is represented by the eye and the impact of digital imaging is represented by the pixelated or digital side of the eye. Originally the eye was cyan and black in color. When choosing colors for backgrounds in the computer application, cyan was also an option. This meant that a cyan eye would not be an appropriate color for the eye; especially when the two were on the same screen. The color of the eye was then changed to red. As per Professor Deborah Beardslee's suggestion, a red eye could be associated with bloodshot, tired or irritated eyes. So the color was again changed to royal blue. Key words, meant to stand out from other text on the help page, arrows for linear navigation and the quit button were also changed to royal blue. In other words, royal blue was used to indicate important or useful tools that needed to stand out from other aspects of the application. Since the eye logo would be one of these navigational tools, the decision to make it royal blue seemed logical.

### **Thesis Panels / Visual Examples**

Many images were gathered and arranged by the categories of Addition, Exaggeration, Substitution and Subtraction (see Appendix 7b). Each category includes a brief definition below the main heading for clearer understanding. Their definitions are as follows:

- 1) Addition: introducing a new element with existing elements to emphasize the meaning,
- 2) Exaggeration: overemphasizing characteristics of an existing element to heighten meaning,
- 3) Substitution: introducing a new element in place of an existing one to alter the meaning,
- 4) Subtraction: removing an existing element to interrupt previous meaning.

The subcategories of Imagery and Typography were then applied. The image examples were arranged using a grid and placed accordingly. Larger, double spread images were originally positioned at the bottom of the section. The logical decision to place them at the top was made because some of the categories did not fill the entire section and would have left a blank image area making the design look incomplete.

### **Navigational Map**

Planning and designing an organized map for the use of the thesis application by a viewer was another important part of this thesis development. Deciding on what information to incorporate, where it would be encountered in relationship to similar information and how it would look aesthetically were key considerations in the overall design. This particular element went through many aesthetic and informational stages (see Appendix 9). Originally the design was horizontal; considering the content to be discussed, smaller groups of information branched off from the main topics resulting in smaller groups of scattered information. Often the information was the same for all topics. This needed to be represented within each group but caused stems of information to become confusing. Another version of the map was developed using a more vertical orientation. Creating boxes around the information made it clearer and easier to understand. Because the four topics of graphic design, advertising design (both parts of visual communication), print media and digital imaging were in a sense being compared, many topics that would be discussed would have been repeated unnecessarily within the design. Instead they were labeled and a larger box of information was implemented as 'Module A - Introduction', 'Module B - Details' and 'Module C - Digital Imaging' (see Appendix 7c).

The intention was to have a general introduction to the overall project, including a mission statement and situation analysis. From there the user had a choice of 1) going through a new user sequence or, if a previous user, 2) going to a main menu sequence. The new user sequence contains the five main sections of the application including visual communication, graphic design,

advertising design, print media and digital imaging. All of these include a splash screen of visual examples related to the corresponding topic. From there a brief introduction of "what is it?" is available. This map had also been implemented at a reduced size into the application as a navigational tool.

After having viewers evaluate the project, it was clear that the map was not working as a navigational tool. First of all the text on the map was not readable at the size implemented, second the whole idea of having the user click on a topic of interest and go directly to it was confusing because most main topics discussed similar information found under multiple sections. Having the viewer click on one area, go back to another and then to another just didn't work, causing the viewer to become frustrated. So very late in the development, a new idea was implemented. A table of contents replaced an illegible map at the beginning of each section. The table of contents listed general information, such as help pages, thesis statements, and topics addressed, such as visual communication, graphic design, advertising design, print media and digital imaging. This made navigation much clearer to the user concerning what topics were discussed and how to get there easily and quickly.

### **CD-ROM Application Frames**

Screen shots or frames were taken from work produced in Macromedia Director, a multimedia program (see Appendix 7d). Considering the final size chosen for all horizontal panels for the thesis show, and the necessary size for each frame to be legible, a total of twelve images were used. The first five relate to an introduction sequence which includes the title screen, welcome page, help or user definition, situation analysis of the whole thesis project, and a small version of the navigational map. The other images were introductory screens of three main topics of the project; Visual Communications, Graphic Design and Advertising Design. A sample of the 'What is it?' frame from Graphic Design seemed logical to introduce for those unfamiliar to graphic design (parents, friends and others not associated with art and design). The panel also included a description of graphic design and what it encompasses. A frame of the History of Advertising Design was also displayed enabling the viewer to understand where advertising design originated from. The following frame included larger visual examples, the topic of the image, the magazine it was found in and a description of the technique of either Addition, Exaggeration, Substitution and Subtraction used in this particular image. The final frame was a sample of the glossary sequence where advertising design has been defined, since the What is it? frame for this topic was not seen in the panel, this decision seemed appropriate.

**The CD-ROM Application**

The CD-ROM application has proved to be a logical source of information concerning this thesis project (see Appendix I I). Research has been incorporated into many frames within the application, in a logical ordering of information which stems from the original organizational map. An introductory sequence was created, animating the eye logo from a small size into a larger one. Navigation through the program had originally been designed for the user to either pick and choose where they would like to go by using the map, or simply navigate from page to page in a linear fashion using the arrows at the bottom of the page. With the new decision to use a table of contents at the beginning of each section, movement through the application became more linear. The eye is present on all screens, returning you to the main table of contents where the help page and main topics are easily accessible. Originally, when the Map was included, the eye was designed to return the user to the Map at any given time. To inform the viewer at all times of his or her whereabouts in the application, a light gray, italicized label is also present within the navigational bar at the bottom of the screen. Messages are included to remind the user that any images on the screen can be clicked on to access a more descriptive frame with a larger or complete version of the image.

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## **Ideation**

*Describing the generation of conceptual solutions and preparation of a range of preliminary design approaches.*

Designing a recognizable logo as an identity mark, developing a whole project plan in a visual form, culminating all research and analysis into an application and preparing for the Bevier gallery thesis exhibition were all priorities at one time. Many ideas and concepts were generated.

### **Logo**

When first attempting to design the logo for this thesis project, many variations of eyes were explored to represent the visual and digital aspect of this study (see Appendix 8). First, clip art images of eyes were gathered and examined. Then, deciding to keep it simple without too much detail, computer sketches were produced using circles and lines. Once the basic form was designed it was brought into Adobe Photoshop where digital effects could be applied. Many filters were experimented with, attempting to achieve the desired effect. Finally, the filter Pixelate; Mosaic was applied to the right side of the eye. 'Visual communication' is represented by a complete un-altered eye while the 'impact of digital imaging' is evident on the right, pixelated side.

### **Thesis Planning Report - Whole Systems Map**

Early on in the thesis project a computer sketch of a whole systems map of the Impact of Digital Imaging on Advertising was created (see Appendix 2). As per Professor Roger Remington's suggestion, the study should be clearly about graphic design. Taking this into greater account, a new design was implemented to incorporate graphic design with more emphasis. The use of different sized circles for larger or smaller priorities of information and shaded areas for overlapping topics and primary focus were also implemented (see Appendix 1 page 24).

### **Application**

Before implementing any research or conclusions into an actual application, computer generated sketches of the storyboards were designed using a grid (see Appendix 10). The background was white, text was large, navigational items were simple. Knowing where you were at a particular place in the program was not evident. Background images were the first to be explored. Trying to decide on pertinent colors related to each topic has been a challenge as well as trying to portray the feel of digital imaging in the final background choices. The gray background images applied to the introduction sequence were, at one time, utilized in different bright colors throughout the entire project. This felt 'digital' but really was unsuitable and somewhat unexciting to use for the main topics being addressed. Some experimentation, such as cropping the image examples and montaging them together was explored. Keeping the images in their original colors was investigated. Then the colors were inverted, reduced in contrast, lightened up, and finally duotoned; applying only the chosen color for each section; three variations of green were used for visual communication, graphic design and advertising

design, yellow was used for print media and blue for digital imaging. This way the viewer could still recognize topical frames within the application without distraction or confusion (see Appendix 11).

Once background images were created, information relevant to each section was incorporated. Image examples were generally positioned on the right and textual information on the left. Each section has a bold heading separated by a line, then text underneath. So that the user was aware of which topic they were reading, the name was used in bold in the first sentence. At the bottom of the screen, in the navigational bar, the name has been repeated, italicized and created in a lighter shade of gray. The idea to repeat the name was influenced by an earlier approach which explored the use of initials for location identification within the program. VC, GD, AD, PM, and DI, were located in the square created by the two lines in the top left corner. This seemed inappropriate since other associations could be made such as VC<sub>r</sub> or PM<sub>s</sub> for example.

Another idea that had been considered was the use of four small boxes color coded to relate to the individual sections of graphic design, advertising design, print media and digital imaging. If you were on the 'who is involved' page for graphic design, by clicking on the blue box you would go to the 'who is involved' page for digital imaging. This idea has since been omitted for technical reasons.



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## Evaluation

*Describing testing strategies that were used and the resulting selection of possible design solutions.*

Evaluation for this thesis project was very important to determine the effectiveness of the application. Determining major problems or confusing areas was a priority. Although the evaluation date had been postponed a few times, once it was completed the results were very helpful.

Originally the idea of presenting this project to a group of senior art students at a local high school was considered but time did not permit this. Instead, at RIT, a group of seventeen senior graphic design students was approached in their Design Specifications class and asked to partake in an evaluation. They gladly agreed. Five stations were set up in their computer lab classroom; after turning in their final exam for the class they were each handed a copy of the evaluation form designed for this application (see Appendix 12a). The average amount of time spent experiencing the application was about fifteen minutes, most returning with smiles and helpful comments. Some suggestions included 'make the type readable in the map', clearing up navigation problems (many students were confused and lost), correcting spelling errors, implementing sound and movement to let the viewer know he / she has clicked on a section. Other comments included, 'overall design was nicely done', 'highly impressive image examples', 'visually interesting splash (introductory) screens', 'background images were pleasing to the eye' and 'good work'.

Generally the students were positive and satisfied regarding the application. All questions were rated on a scale from one to ten; one representing a positive response and ten representing a negative response. Only one nine was listed and that was concerning navigation. The most positive results pertained to the fact that the images used in the program were 'relevant' and 'stimulating'. Upon receiving the completed evaluation forms, two charts were created listing the actual numbers, from 1 to 10 as answers to the sixteen questions and another listing which summarized the answers for each question (see Appendix 12b).

Unfortunately this evaluation session did not take place before the thesis show in the Bevier Gallery, as planned. Preliminary evaluation would have been helpful in focusing on problems before presenting to a much wider audience. Several informal evaluations did take place during meetings with Chief Advisor, Professor Deborah Beardslee. A designer can become very focused on how they would LIKE the user to navigate and view the application. Deborah was the first person to try and interact with the program. It was a great help to observe her actions and to hear her thoughts, questions and comments. The last meeting before the show encouraged quick revisions before the thesis reception where, once again an informal evaluation took place by observing, listening and answering questions as they were asked. At that time it was apparent that there were various navigational problems and confusions to be worked out.

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## **Implementation**

*Describing how the project was refined, developed and produced to its final form or application.*

### **Application**

There are many computer applications that allow a user to design multimedia presentations. Macromedia Director 5.0 was the most logical for this project because of past experience, or lack of experience, in any other application. It also seemed more flexible than a program such as HyperCard. One important factor is that Director has the capability of creating a projector file which allows you to create a play-only version of a movie or project. This also enables users who do not own a version of Director to play the movie.

Original screen designs were implemented in QuarkXPress because of its ability to allow the use of guides and grids. Most screen images were saved as PICT formats and imported into Director. Visual examples from magazines, also saved as PICT formats, were scanned into the computer using Adobe Photoshop 4.0. Text was placed in Quark and then copied and pasted into Director. Because taking screen shots of Quark pages and importing them into Director resulted in fuzzy images and text, the screen shots were used as templates, then deleted.

Many versions have been designed. Each one has been added on to, saved as a new version and then stored on a Jaz disk for future reference.

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## **Dissemination**

*Describing plans for future audience interaction - how could this product or information be distributed or used in the future?*

This thesis project has been produced as an interactive CD-ROM application. CD-ROMs, when handled with care, can last for many years, as long as the technology remains compatible. This will enable an interested user to interact and view the completed project at anytime in the future. If for some reason technology does change, making the CD-ROM obsolete, the documentation of this thesis project will still be available. Within the documentation a section has been designated containing all the application frames, in a linear order of importance and as a logical information flow (see Appendix 11). A list of contents and page numbers could be included for quicker reference. This version of the book will always be available at Wallace Memorial Library's archive and special collections department.

The Educational Technology Center of the Wallace Memorial Library, currently has a collection of CD-ROMs separate from the reference material in the main library. For those interested in learning more about visual communication, graphic design, advertising design, print media and/or digital imaging this project could be a useful reference in the library's collection of materials.

Possibly, in the future, if the Wallace Memorial Library implements a collection of pertinent CD-ROMs in the computer area on the second floor, this CD-ROM could be included for students to view under the topics of Visual Communication, Graphic Design, Advertising Design or Digital Imaging.

Another possibility of future dissemination is to transfer the information into the World Wide Web by use of screen shots. Developing a new web site requires a lot of time and effort, especially to a new or less experienced web designer / developer. For this reason the World Wide Web was not an option for the final application at this time. Advertising the educational CD-ROM and selling copies for a small fee to those interested could be a future alternative.

Another suggestion, provided by Associate Advisor Dr. Richard Zakia, was to contact other schools or institutions with programs involving advertising design and inquire as to whether or not they might like a copy of this thesis project for their advertising archives. Four possibilities included Duke University, Northwestern University, the Smithsonian Institution and the Visual Studies Workshop.

### **Thesis Show Panels**

Preliminary computer sketches were made to explore aesthetic possibilities for the panels within the viewing context of the gallery. The sketches, lacking in information and context, were basic and boring. The designs were symmetrical and the images would have been too similar and small in size (see Appendix 6). Extravagant measures were explored in regard to the thesis show and the area for the installations of this project. The creation of a separate environment with three panels and a computer included an idea to conceal any area around the computer with a cloth containing a large printed eye whose 'pupil' would serve as a window for the computer screen only.

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## **Retrospective Evaluation**

*Assessing the final product to determine strengths and weaknesses - how could future versions be improved?*

One of the major problems encountered was during the development of navigation through the thesis application. This was in part due to lack of confidence and inexperience using the computer application Macromedia Director 5.0. Two classes were taken; one which primarily focused on the program, the other which experimented with Lingo.

Considering the time restrictions, additional experimentation and troubleshooting were not options. This was definitely a limitation. Instead, basic Lingo techniques were implemented.

Possibly working as a team with another more experienced student, to execute the desired effects and navigation would have been a beneficial tactic. This would be a definite suggestion to other students embarking on similar projects.

A great deal of time was spent on developing the organizational map. Major changes and many re-designs were performed late in the overall process. This effected the start of devising the actual application, making it difficult to incorporate more information by the time the thesis show was to occur.

One idea for evaluation, if performed again, would be to have more than one class of students participate in the evaluation process. Visiting a local high school and asking a class or two of senior students interested in visual communication fields to participate could also be a viable option.

A suggestion for future Masters students is to finalize a topic for their thesis during or toward the end of spring quarter of their first year. This will permit them to begin research or at least consider possible ways of execution for their projects. Understanding potential problems and distractions, such as other classes, is of utmost importance in order to avoid unnecessary stress and fatigue. Planning well in advance will allow these students to be able to perform the necessary evaluation procedures without encountering additional, and possibly avoidable, problems.

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## **Conclusion**

*Summarizing overall experience and outcome - what was gained?*

This graduate thesis project has proven to be a challenging yet fulfilling, rewarding and educational experience. Finally being able to answer the questions of what the difference between graphic design and advertising design is and how digital imaging has had an impact on them is quite satisfying.

Developing an interactive program and being able to inform and educate others with similar questions and concerns for future career paths in a way which they can choose what to learn about and read also has been rewarding. Most of the students who filled out an evaluation form for this project seemed to be interested and went away with greater knowledge of these topics.

It has become apparent that designers utilize the techniques of addition and exaggeration as a means of enhancing a design or advertisement to make it more attractive, informative and visually interesting. The techniques of substitution and subtraction do not seem to have been used as much, according to the examples found in the publications selected.

Graphic design and advertising design are both very much alike. Many will say there is not any difference except concerning their intent. Both fields of communication utilize and combine typography and imagery to convey messages. In formal graphic design instructing the student learns to combine meaningful form with function. This enables the audience to easily and clearly understand and recognize the information or message that the professional designer is intending to send. An advertising designer's main concern is to improve the sales of a client's product or service by attracting or persuading a viewer to act on the message communicated. Graphic designers are not always involved in the design of the advertisements we see. This is often quite apparent.

Digital imaging has had a profound effect on visual communication fields, specifically graphic design and advertising design. With the introduction of the Macintosh computer in 1984, designers were given a new option for a tool that has become quite common in designing printed matter. Of course, the computer can not design for you but it can extend the possibilities. A concern all designers should be aware of is the unnecessary use and waste of paper. The computer allows designers to preview their artwork or designs on the screen before printing. Mistakes, effects or unwanted placements of text or images can be undone. Unusual or non-traditional designs can be achieved through experimentation. Montaging and placing type and images can be executed easier and faster. Transmission of documents via the internet or email allows for client approvals anywhere in the world. These are all benefits of computer technology. In addition, eccentric or extraordinary effects can be created which could encourage the unfamiliar public to take a second look and remember the information presented.

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## **Glossary Terms**

*Defining particular terms that were used within the written documentation to aid in reader understanding.*

Advertising	printed or spoken matter that calls attention to a product or service
Aesthetics	a coherent system of criteria, which can be purely visual, moral or social, or any combination of these, used for evaluating works of art
CD-ROM	a system of storing large amounts of information on a compact disk for retrieval on the computer
Digital Imaging	the act of producing edited, enhanced or altered images through the use of a computer and other digital devices
Filter	the name given to a single command that applies special effects or certain editing processes to images
Form	the shape, outline, or configuration of anything; structure as apart from color, material, etc.
Graphic Design	activity of combining typography, illustration, photography and printing for purposes of persuasion, information or instruction
Jaz Disk	a removable media format from Iomega Corporation that has a storage capacity of 1 Gigabyte or 1,024 megabytes
Logo	letters or images designed into a distinctive and unified form. Can often provide the basis for a company trademark, brand or corporate identity
Screen Shots	images taken, as seen on a computer screen, from an active application or computer program
Splash Screen	the first frame (screen) of a section of information, usually containing a title and pertinent images or examples of what will be seen later on in that section
Typography	the art and design of type
Rhetoric	study and application of the artful, effective, and persuasive uses of language (signs)
Visual Communication	communicating messages through visual media; such as print, photography, illustration, multimedia, world wide web and television

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Listing all sources used for the study by category - books, journals, magazines, web sites, etc.

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## Appendices

*Labeling each tool, involvement or activity separately - enabling a reader to refer to more indepth detail at the end of the thesis documentation.*

### Appendices

Appendix 1	20 - 35
Thesis Planning Report	
Appendix 2	36 - 38
Whole Systems Map Ideation	
Appendix 3	39 - 42
Curtis Circulation Company Publication Information	
Appendix 4	43
Categorization of Visual Examples	
Appendix 5	44 - 48
Letters for Information Gathering	
Appendix 6	49
Thesis Show Panel Ideation	
Appendix 7	50 - 54
Final Thesis Show Panels	
Appendix 8	55 - 56
Logo Ideation	
Appendix 9	57
Navigational Map Ideation	
Appendix 10	58 - 60
Application Frame Ideation	
Appendix 11	61 - 69
Final Application Frames	
Appendix 12	70 - 71
Evaluation Form and Results	

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# **Appendix I**

## **Thesis Planning Report**

### **Thesis Proposal**

#### **Project Title**

The Impact of Digital Imaging on Visual Communication

#### **Client**

Rochester Institute of Technology  
One Lomb Memorial Drive  
Rochester, New York 14623

#### **Designer**

Holly Catherine Coulter  
608 Park Avenue 8B  
Rochester, New York 14607-2973  
716-242-9562

The topic I have chosen for my thesis is :

#### **The Impact of Digital Imaging on Visual Communication**

I will first define digital imaging and discuss its history, including brief descriptions of computer platforms and terminology. I will then introduce visual communications, with a focus on advertising and graphic design. What are they? Where are they seen? Why we do them? I will also focus on the important role these areas of visual communication play in print media.

Traditional techniques used to produce an advertisement, as well as techniques that have evolved from expanded technology and user-friendly computers will be discussed. I will argue whether or not the computer is an asset in the advertising environment. Does it seem that more products being sold from the result of "applying" digital imaging? Are we aiming to shock or amaze through digital imaging? Has the audience played a role in digital imaging?

These questions and more will be critically analyzed and answered within the context of my thesis project, which will consist of much research in the areas of digital imaging, advertising, graphic design and print media; including magazine advertisements and possibly billboards and posters. One possible way of presenting my studies is to produce an educational interactive, multimedia presentation on a CD-ROM.

---

## Appendix I

### Thesis Planning Report *continued*

#### Problem Statement

This thesis will explore the role of digital imaging in visual communications. Does digital imaging increase and enhance attention to the print advertisements representing certain products? Although I am focusing my research on print advertising, the same questions can be raised for television, and internet advertisements.

Research will be conducted in the areas of digital imaging and visual communications specifically graphic design, advertising design and print media. In order to share and communicate my research findings to students I will produce an educational, interactive, multimedia presentation on a CD-ROM. This could also be produced as an informative book for those who do not have access to a computer.

#### Digital Imaging

the act of producing edited, enhanced or altered images through the use of a computer and other digital devices

#### Visual Communication

communicating messages through visual media

#### Visual Communication Fields

- advertising
- graphic design
- illustration
- photography
- world wide web/internet
- television
- multimedia
- printing
  - magazines
  - posters
  - billboards
  - newspapers

---

## Appendix I

### Thesis Planning Report *continued*

#### Situation Analysis

As we approach the 21st century, the use of digital imaging continues to increase. Frank Romano, a distinguished professor at Rochester Institute of Technology states that in 1984 there was an average of 125 students per computer; today this number is less than nine.

Digital imaging emerged in 1984 with the introduction of the Macintosh workstation. Most advertising agencies and design studios, specializing in print media, are now using computers as tools for image development and production. The dominance of the use of computers and digital imaging however, raises many questions in the minds of students of visual communication fields, such as photography and design. Has digital imaging improved the quality of communication and persuasion in advertisements? Are the ads which represent the products more effective using digital imaging? How has digital imaging affected the creative process in the design of advertisements?

Digital imaging is used and manifests itself in many forms of visual communication. From a wide spectrum of applications, I would like to focus my thesis on print advertising because it relates to my background and professional direction. A critical survey of digital imaging in advertising design will be of importance to students studying in the visual communication fields. Its impact on advertising design is relevant to all image creation and will continue to be so. What we have witnessed so far is most likely just the tip of the iceberg in terms of the potential of digital imaging on the advertising design field. The future looks bright and exciting for digital imaging especially in graphic design and advertising design.

---

**Appendix I**  
**Thesis Planning Report** *continued*  
**Mission Statement**

This thesis pertains to the impact of digital imaging on visual communication. It will acquaint students and designers to the importance of digital imaging in relationship to graphic design and advertising design, when successful this audience will become more knowledgeable in this realm of communication.

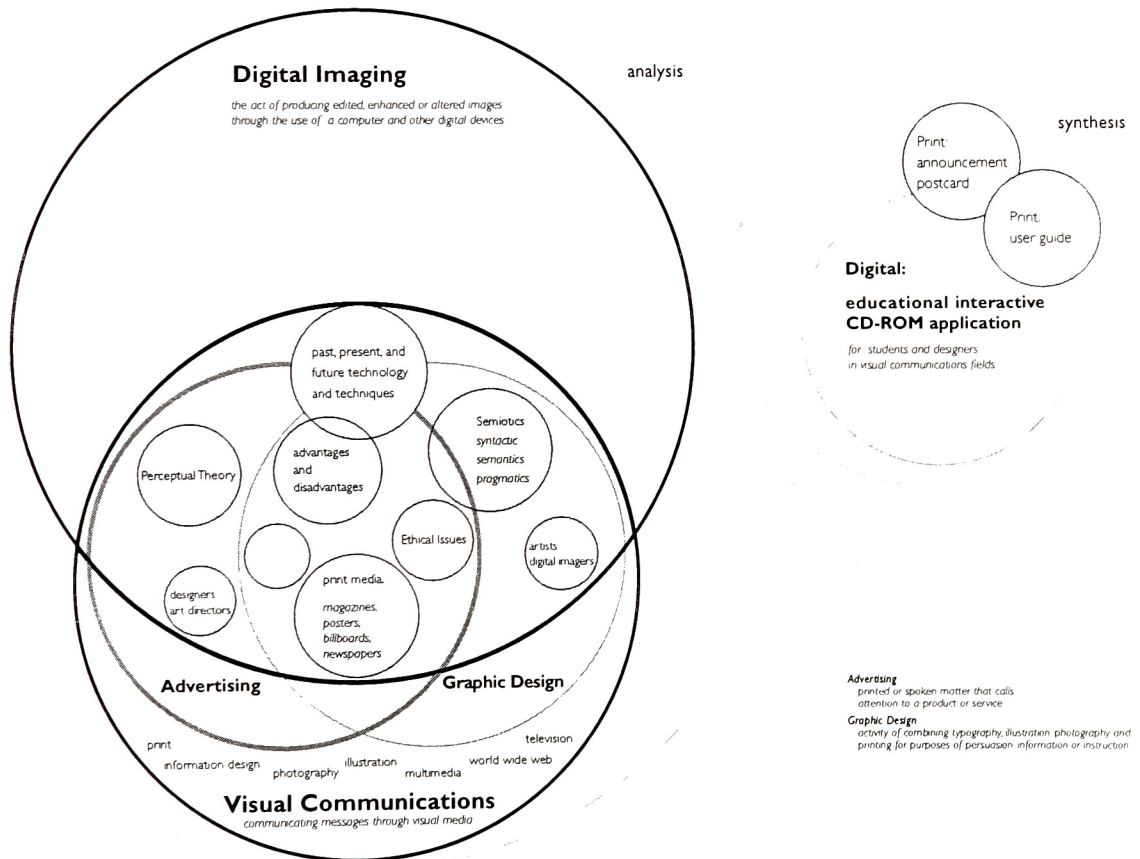
# Appendix I

## Thesis Planning Report *continued*

### Research Methodology Diagram

The following diagram illustrates some of the views and areas I will be looking at concerning digital imaging, and visual communication. The shaded area is where I will focus much of my energy. Also shown is the way in which my findings and research will be presented.

The Impact of Digital Imaging on Visual Communications



---

# Appendix I

## Thesis Planning Report *continued*

### Implementation Plan

Calendar	RIT	Thesis
<b>November</b>		
11		
18	13- last day of classes	15-thesis planning report/ final critiques
25	20-Dec 1- Fall break	begin identity development
	28- Thanksgiving	start thesis diary
		begin image search
		research phase begins
<b>December</b>		
2		
9	2- Hanukkah	2-Winter Quarter starts/Daytime classes begin
16		9- Last day to add/drop
23	25- Christmas	21- last day of classes before break
		22-6 Christmas break
		generation of concepts, thumbnails, do library research
		image gathering
		First full committee meeting, discuss research, project and direction
		ideation phase begins
<b>January</b>		
6	1- New years	6- Christmas break ends- Classes resume
13	15- Martin Luther King	
20		
27		
		synthesis phase begins
		conduct interviews
		selection of images
		Second meeting: show work to date
		rough sketches
<b>February</b>		
3		
10	12- Lincoln's birthday	
17	14- Valentines day	
24	22- Washington's Birthday	21- last day of classes
	20- Dad birthday	21-28 Exams
	26- Holly birthday	
		conduct interviews
		Third meeting: show work to date and new research
		work on CD-ROM application
<b>March</b>		
3		
10	17- St Patrick's day	1-9- Spring break
17	20- Spring starts	10- Spring Quarter starts/Daytime classes begin
24	30- Mom & Dad anniversary	17- Last day to add/drop
	30- Easter	21- First thesis show
		writing questionnaires for evaluation
		begin written portion of thesis
<b>April</b>		
1		
7	6- Daylight savings	
14		
21		11- Second thesis show
28		
		28-27 set up for thesis show
<b>May</b>		
1		
5		2- Thesis reception
12	11- Mothers day	15- takedown thesis show
19		16- last day of classes
		19-22 Exams
		24- Commencement
		First draft of thesis
		Last committee meeting, Final thesis
		Final signatures

---

## **Appendix I**

### **Thesis Planning Report** *continued*

#### **Pragmatic Considerations and Dissemination**

##### **Pragmatic considerations**

The principle source for research will be from the RIT and Rundell Libraries in Rochester and the Adriance Memorial Library in Poughkeepsie, New York. The main expense for this project will be in production of the manual and postcard. Numerous color copies are anticipated but the dollar amount can not be determined at this time. A jaz disk, at 120 dollars per disk will be required for storage. The final application I create will be stored on a CD-ROM disk at 10 dollars a disk; possible transfer charges my apply.

This project's application will be produced on a Power Macintosh 8500/120.

##### **Dissemination**

The thesis and its application will be disseminated first through the thesis show at RIT, which will allow an audience to view and evaluate it. Then it will be available at the Wallace Memorial Library Archives for anyone to view.



---

## **Appendix I**

### **Thesis Planning Report** *continued*

#### **Evaluation**

Evaluation will be conducted throughout the process and at the thesis show by means of a questionnaire that will be available. The evaluation process will allow improvement throughout the experience, and the ability to learn from it once the final application is completed.

A group of 22 seniors will be asked to view the application in progress and offer suggestions and comments concerning specific aspects of the application. An evaluation form will be available for them to fill out next to two or three computers in the lab that they have their class meetings. An explanation of the thesis is unnecessary since the application should be able to stand alone. (see Appendix 12)

---

## Appendix I

### Thesis Planning Report *continued*

### Goals, Objectives, Processes and Strategies

research and analysis

Goals	Objectives	Processes & Strategies
<ul style="list-style-type: none"> <li>To do research and analyze digital imaging in relation to advertising and graphic design</li> </ul>	<ul style="list-style-type: none"> <li>to identify digital imaging, advertising and graphic design</li> <li>to understand advantages and disadvantages of digital imaging, advertising and graphic design</li> <li>to determine how digital imaging has been applied to advertising</li> <li>to identify the role a <i>digital imager, art director, designer, and artist</i> plays in the advertising environment to inform the viewer of what might be expected of him/her</li> <li>to include examples of effects created on the computer through the use of filters and other popular tools</li> <li>apply Semiotics to advertisements that utilize digital imaging</li> </ul>	<ul style="list-style-type: none"> <li>gather articles and images from design publications and the internet related to digital imaging and advertising and graphic design</li> <li>explore popular design options on the computer</li> <li>identify important factors involved in this area</li> <li>show benefits of each using found examples by making a visual diagram incorporating effects commonly used</li> <li>interview artists in these fields</li> <li>compile information and create a document containing interview results</li> <li>to collect critical writings on these subjects</li> <li>explore options in Photoshop and possibly Illustrator</li> <li>create visual presentation of applications</li> <li>create illustrated examples and discuss effectiveness concerning syntactics, semantics and pragmatics</li> </ul>
<ul style="list-style-type: none"> <li>To do research and analyze the area of visual communications, focusing on print media in advertising and graphic design</li> </ul>	<ul style="list-style-type: none"> <li>to identify and provide an overview of visual examples in graphic design and advertising to understand the relation between these two fields</li> </ul>	<ul style="list-style-type: none"> <li>gather articles and images from design publications and the internet related to print media</li> <li>interview artists in this field</li> </ul>

---

## Appendix I

### Thesis Planning Report *continued*

### Goals, Objectives, Processes and Strategies *continued*

- To establish a clear understanding of the impact of digital imaging on visual communications; specifically print media and advertising
- To identify and analyze the relationship of graphic design and advertising
- to understand advantages and disadvantages of print media
- to recognize traditional, present day and possible future techniques utilized in producing print advertisements
- to understand advantages and disadvantages of graphic design
- to compile information on digital imaging and advertising to give the user a better understanding of the impact of each, upon the other
- to discuss the history and direction of *digital imaging* in order to provide a context for the viewer
- to discuss the history and direction of *advertising* in order to provide a context for the viewer
- to show the relationship between digital imaging and advertising
- define function of CD-ROM in order to provide a context for the viewer
- to determine the similarities and differences between *graphic design* and *advertising*
- to identify the role a graphic designer plays in the advertising environment to inform the viewer of what might be expected of him/her
- compile information and create a document containing interview results
- explore techniques and provide examples of implementation
- identify important factors involved in this area
- collect articles and books pertaining to this topic
- include visual examples of digital imaging and advertising separately and together, from design publications
- research the history of *digital imaging* in books and magazines and the internet
- research the history of *advertising* in books and magazines and the internet
- create a diagram/timeline that will show significant importance of each of these topics
- interview artists in this field and compile information into interviewing document
- create instructions for using the CD-ROM application
- collect visual examples from design publications and the internet related to graphic design and advertising
- gather information from books and magazines and the internet related to graphic designers and advertising agencies
- logically sort information
- interview artists in these fields and compile information into interviewing document

---

## Appendix I

### Thesis Planning Report *continued*

#### Goals, Objectives, Processes and Strategies *continued*

<b>synthesis</b>	<ul style="list-style-type: none"> <li>• To develop an interactive multimedia application</li> </ul>	<ul style="list-style-type: none"> <li>• to design and compose application containing an overview of history and imagery</li> <li>• to apply user friendliness and interactivity which will appeal to the target audience</li> <li>• design announcement postcard</li> </ul>	<ul style="list-style-type: none"> <li>• create mind map</li> <li>• produce story board</li> <li>• gather historical references</li> <li>• gather imagery for mm project</li> <li>• gather information relevant to final project for announcement card</li> <li>• distribute announcement card</li> </ul>
	<ul style="list-style-type: none"> <li>• To communicate the importance of digital imaging in relation to advertising</li> </ul>	<ul style="list-style-type: none"> <li>• to critically analyze the positives and negatives of digital imaging</li> <li>• understand who and why we are using these techniques</li> </ul>	<ul style="list-style-type: none"> <li>• write evaluation form</li> <li>• utilize committee to test concepts</li> <li>• show committee members work in progress</li> </ul>
<b>dissemination</b>	<ul style="list-style-type: none"> <li>• To make my research and findings accessible to the target audience</li> </ul>	<ul style="list-style-type: none"> <li>• to enable the viewer to learn and explore at their own pace, the findings of my research</li> <li>• to provide verbal information that will accentuate information delivered in the announcement card</li> </ul>	<ul style="list-style-type: none"> <li>• deliver postcard announcement to sophomore, junior and senior graphic design and photography classes</li> <li>• deliver copy to Department Head, Dean of College and President of RIT</li> <li>• distribute an evaluative survey one week after the audience has used the application</li> </ul>
	<ul style="list-style-type: none"> <li>• To determine methods to indicate the project's success and functionality</li> </ul>	<ul style="list-style-type: none"> <li>• to establish evaluation methods that will enable me to determine whether I have met my initial goals</li> <li>• to create evaluation form to provide with the application</li> </ul>	<ul style="list-style-type: none"> <li>• distribute to select professors in CIAS</li> <li>• distribute to graduate and undergraduate peers</li> <li>• exhibit CD-ROM application and user manual during thesis show</li> <li>• record reactions and responses</li> </ul>

---

## Appendix I

### Thesis Planning Report *continued*

#### Glossary

Account executive	an advertising agency employee primarily responsible for maintaining liaison with designated agency clients, and for development and control of advertising plans for clients.
Advertising	printed or spoken matter that calls attention to a product or service. As defined by the Dictionary of Advertising: 1) a marketing process which uses advertisements directed to prospects as a means of meeting marketing objectives; as a marketing tool, advertising is uniquely able to reliably and quickly deliver consistent messages, efficiently. 2) a commercial profession or craft which seeks to develop and place advertisements in the most productive, efficient manner possible.
Advertising agency	an independent commercial service organization that contracts with advertisers to develop and manage their advertising, for a fee or for a commission derived from a standard media discount on the advertiser's spending.
Art Director	an employee of an advertising agency or similar organization who is responsible for developing the general design, and supervising the final artwork and typography of advertisements.
Aesthetics	a coherent system of criteria, which can be purely visual, moral or social, or any combination of these, used for evaluating works of art.
Analysis	a separating or breaking up of any whole into its parts, esp. with the examination of these parts to find out their nature, function or interrelationship.
Animation	to give life to, to stimulate action or motion.
Ambiguity	the quality or state of having two possible meanings; unclear.
Application program	brand name commercial software that perform specific tasks, such as imaging, word processing, spreadsheets.
Bitmapped	images made up of individual dots, each of which have a defined value that precisely identifies its specific color, size and place within the image.

---

**Appendix I**  
**Thesis Planning Report** *continued*  
**Glossary** *continued*

Campaigns	projects that have more than one component or are communicated through more than one medium.
CD-ROM	Compact Disc Read Only Memory- a compact disk that can hold prodigious amounts of digital information
Communication	a giving or exchanging of information, signals or messages by talk, gestures, writing, etc.
Creative Department	consist of writers, artists, television producers, print mechanics, and coordinators.
Creative Director	an advertising agency employee responsible for managing the operations and personnel of a creative group or department.
Designer	Produces the detailed visual concept. Converts the problem into a form to be proposed to the client. Actually draws or lays out a prototype. Works with the specifics of type style, paper, colors, and so on. Often overlaps the activities of the art director, and vice versa. Plans, conceptualizes and administrates projects form start to finish
Digital	refers to the two numbers, zero and one, that a computer can recognize
Digital Imaging	the act of producing edited, enhanced or altered images through the use of a computer and other digital devices
Filter	the name given to a single command that applies special effects or certain editing processes to images
Form	the shape, outline, or configuration of anything; structure as apart from color, material, etc.
Graphic Design	activity of combining typography, illustration, photography and printing for purposes of persuasion, information or instruction
Illustrator	creates the images that need to be delineated or painted. Also, may produce the preliminary "comps" or sketches needed by the art director or designer. May be specialized by product machines, charts, clothing, story boards, or technique; air brush, pen and ink, collage.

---

**Appendix I**  
**Thesis Planning Report** *continued*  
**Glossary** *continued*

Interpretation the act of explaining the meaning of

Logo	letters or word formed into distinctive and unified form. Can often provide the basis for a company trademark, brand or corporate identity.
Macintosh	a type of computer manufactured by Apple used by many digital imagers.
Metaphor	a figure of speech that provides an understanding of one thing in terms of another.
Multimedia	a simultaneous presentation of a series of effects in more than two media; sound, images, movies etc.
Pragmatics	the relationship between signs, their context, and interpreters.
Production Artist	produces the mechanical material necessary to reproduce the product. Follows the creative activity with the technical material needed by the printer or manufacturer. Someone has to produce the project. Print production people need to know about typefaces, taste, costs, readability, personality of product, printing, engraving, imaging and desktop publishing.
Psychology	the science dealing with the mind and with mental and emotional processes.
Representamen	that which represents an object.
Rhetoric	study and application of the artful, effective, and persuasive, use of language (signs).
Semantic	the relationship between the representamen and the object; the meaning that the signs conveys.
Semiotics	the knowledge and science of signs.
Syntax	the relationship within and between representamen; how signs are actually constituted.

---

## **Appendix I**

### **Thesis Planning Report** *continued*

#### **Glossary** *continued*

**User friendly** an industry buzzword to describe hardware and software that is particularly easy to set up and operate by computer novices and others without a technical background.

**Visual Communications** communicating messages through visual media; such as print, information design, photography, illustration, multimedia, world wide web and television.



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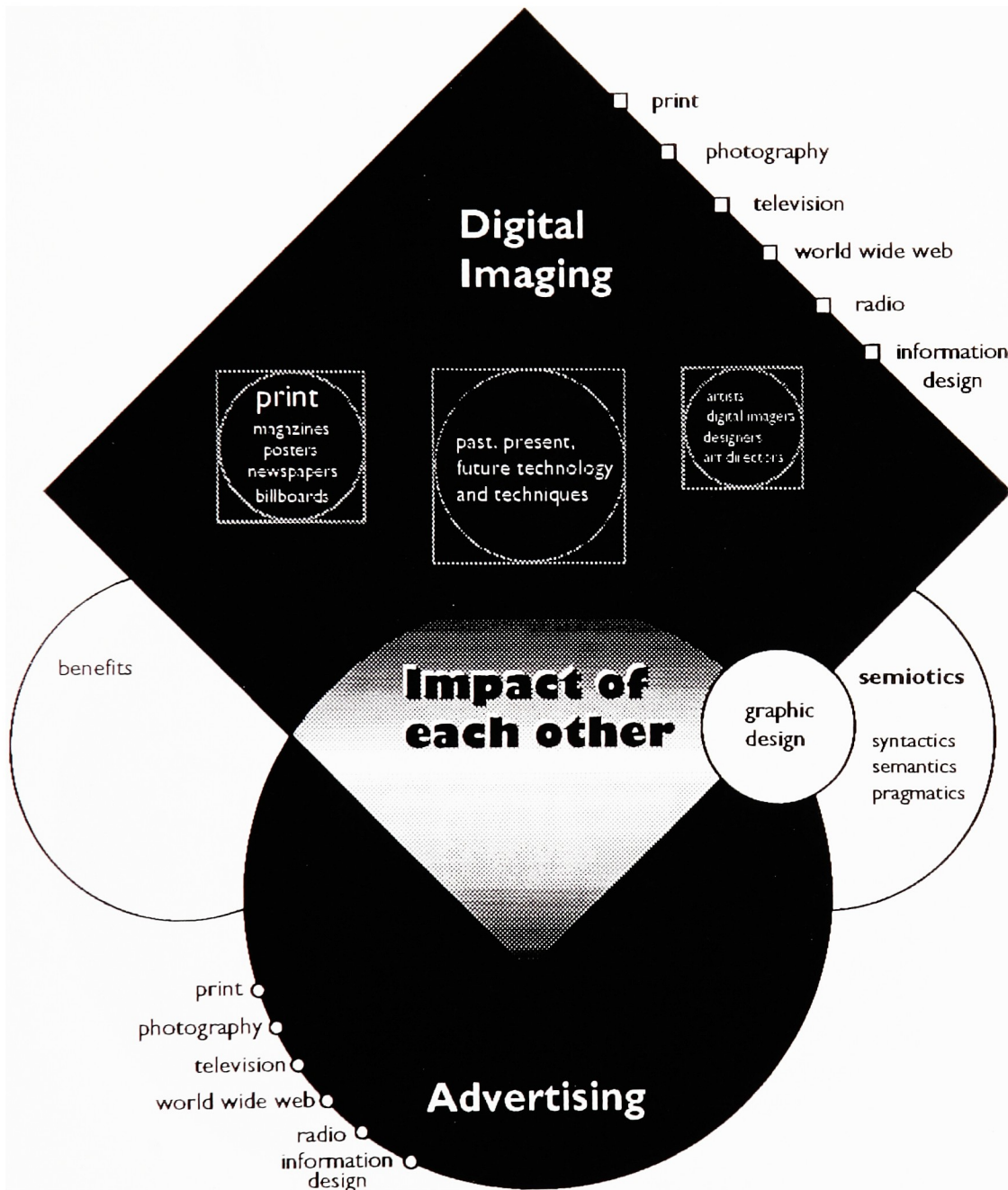
## Appendix I

### Thesis Planning Report *continued*

### Bibliography

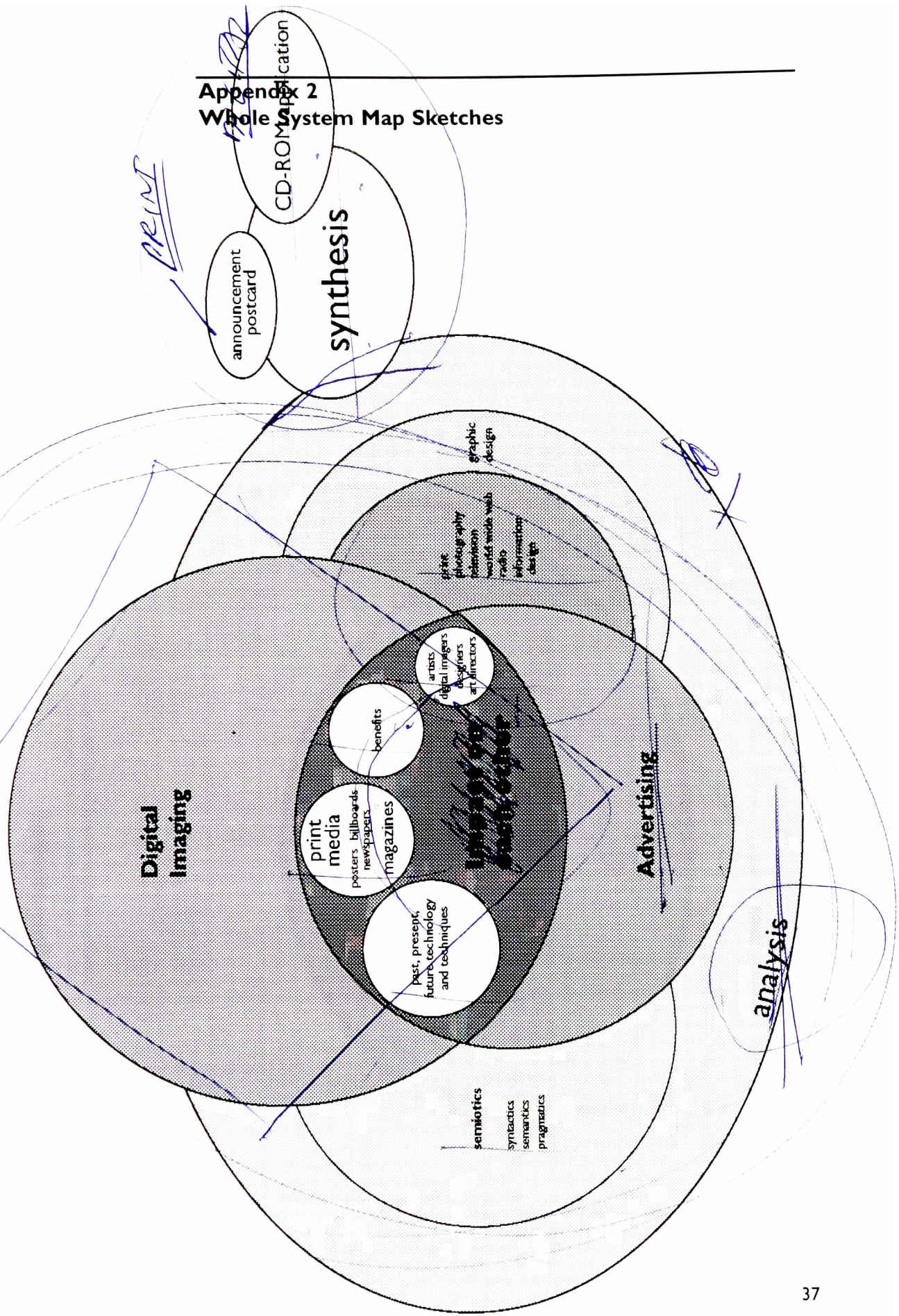
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9. Ziegler, Kathleen and Nick Greco, *Digitalink: Digital Design and Advertising*, Pennsylvania, Dimensional Illustrators, 1996.

Appendix 2  
Whole System Map Sketches



The Impact of Digital Imaging on Advertising

Appendix 2  
Whole System Map Sketches



*Appendix 2*  
*Whole System Map Sketches*

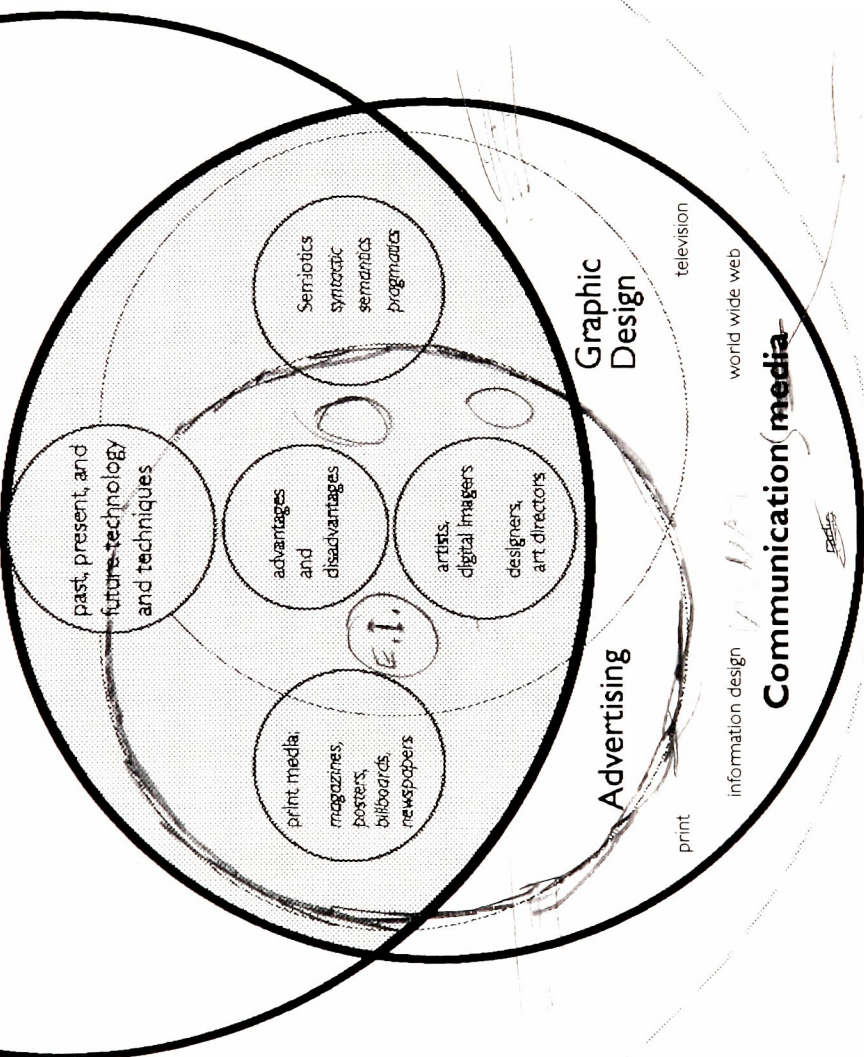
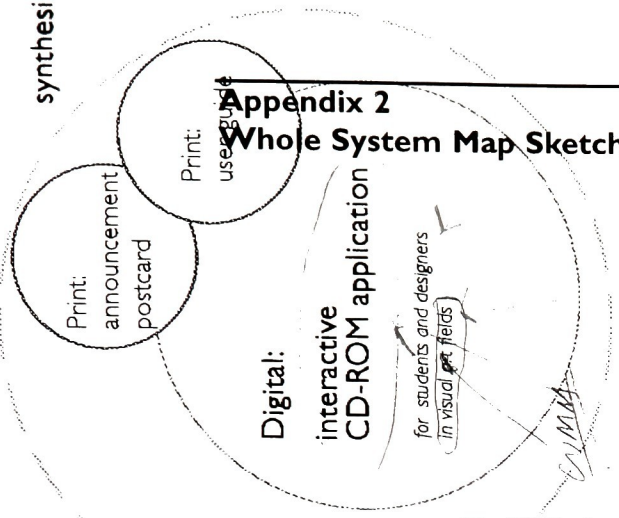
### Digital Imaging

the act of producing edited, enhanced or altered images through the use of a computer and other digital devices

analysis

synthesis

### Appendix 2 Whole System Map Sketches



television

world wide web

print

information design

### Communication media



EC/FANUC INC  
09/23/90  
08 57

**CURTIS CIRCULATION COMPANY**  
**FAS FAX ANALYSIS FOR SECOND HALF 1989 VS 1988**

CATEGORY TOTALS	AVERAGES FOR SIX MONTHS ENDING 06/30/89			AVERAGES FOR SIX MONTHS ENDING 06/30/88			PERCENT CHANGE 1989 VS 1988		
	SUBSCRIP- TIONS	SINGLE COPY SALES	SES RETAIL DOLLARS	SUBSCRIP- TIONS	SINGLE COPY SALES	SES RETAIL DOLLARS	SUBSCRIP- TIONS	SINGLE COPY SALES	SES RETAIL DOLLARS
<b>ACTS/ARTICLES</b>	719,120	75,529	\$1,659,491	729,813	74,326	\$1,831,006	11.52%	0.32%	1.6%
<b>AVIATION</b>	759,717	264,805	\$4,321,055	741,421	216,490	\$4,477,654	3.5%	15.42%	13.57%
<b>AUTOMOTIVE (GENERAL)</b>	1,930,825	1,065,067	\$2,752,921	1,819,807	1,099,219	\$21,677,201	6.5%	(4.07%)	6.2%
<b>AUTOMOTIVE (GENERAL)</b>	4,164,336	1,181,166	\$24,832,402	4,006,704	1,700,699	\$24,012,244	1.1%	43.00%	3.42%
<b>AVIATION</b>	422,963	89,405	\$1,631,253	444,854	86,341	\$1,694,370	(4.9%)	16.9%	(3.77%)
<b>BICYCLING</b>	520,592	219,730	\$4,348,850	506,236	230,841	\$4,801,204	2.6%	(4.82%)	(9.42%)
<b>BATTAIN</b>	683,924	220,599	\$4,212,786	901,747	219,282	\$3,865,950	(2.0%)	0.62%	9.12%
<b>BEJUAL</b>	261,895	1,090,175	\$14,785,560	246,546	1,028,024	\$14,456,407	6.2%	6.0%	2.0%
<b>BUSINESS</b>	1,030,806	1,175,064	\$35,340,350	11,377,920	1,021,252	\$30,446,740	7.8%	14.4%	16.1%
<b>CHILDREN</b>	1,366,107	52,353	\$470,347	1,436,515	98,912	\$925,971	1.3%	(47.1%)	(49.2%)
<b>CLARICE</b>	797,221	2,550,159	\$9,109,661	736,072	3,675,925	\$40,781,525	8.3%	(30.6%)	(28.6%)
<b>COMPUTER (GENERAL)</b>	6,886,281	1,743,141	\$47,104,181	8,029,422	1,713,940	\$45,675,024	11.4%	(1.7%)	3.1%
<b>COMPUTER (GENERAL)</b>	94,954	68,277	\$2,072,827	130,629	104,474	\$3,102,878	(27.3%)	(34.6%)	(30.6%)
<b>CRAPTS</b>	1,070,687	345,496	\$5,443,498	1,082,740	359,822	\$5,250,341	46.7%	(3.9%)	3.3%
<b>CYCLE (DIRTY)</b>	214,027	214,016	\$4,355,832	194,280	213,393	\$4,106,409	10.2%	0.6%	6.1%
<b>CYCLE (GENERAL)</b>	659,910	612,355	\$13,114,299	628,504	675,176	\$16,263,940	5.0%	(9.3%)	(19.1%)
<b>FRECO</b>	4,008,804	1,316,057	\$2,804,287	5,324,843	1,347,757	\$21,501,139	2.9%	42.2%	6.1%
<b>FASHION/ARTISTE</b>	5,247,402	3,437,463	\$54,713,907	8,684,865	5,223,373	\$55,049,223	0.5%	(1.0%)	(0.6%)
<b>FISIRING</b>	1,631,761	901,478	\$4,801,584	1,646,206	349,017	\$5,047,170	(0.9%)	(13.6%)	(4.9%)
<b>TOTAL</b>	815,197	815,197	815,197	815,197	815,197	815,197			

**Appendix 3**  
**Curtis Circulation Company Publication Information**



PAY FAX ANALYSIS FOR SECOND HALF 1996 VS 1995

CATEGORY	AVERAGES FOR SIX MONTHS ENDING 06/30/96				AVERAGES FOR SIX MONTHS ENDING 06/30/95				TOTAL	% PERCENT CHANGE 1996 VS 1995			
	SUBSCRIP- TIONS	SINGLE COPY SALES	SEC RETAIL DOLLARS	TOTAL	SUBSCRIP- TIONS	SINGLE COPY SALES	SEC RETAIL DOLLARS	TOTAL		SUBSCRIP- TIONS	SINGLE COPY SALES	SEC RETAIL DOLLARS	TOTAL
<b>TOTAL</b>	6,267,414	2,724,393	\$46,154,412	9,591,807	6,868,153	7,956,611	\$45,265,603	9,637,164	6.0%	66.1%	2.0%	22.4%	
<b>CHILDREN</b>	5,934,503	1,248,025	\$19,563,475	7,222,526	5,928,494	1,190,273	\$17,797,133	7,119,167	0.1%	9.0%	11.7%	1.6%	
<b>YOUNG</b>	975,428	393,723	\$8,510,905	1,368,151	555,790	423,361	\$6,749,353	1,379,111	2.1%	(7.2%)	(4.2%)	(0.8%)	
<b>PRETEEN</b>	650,809	1,049,223	\$22,590,119	1,700,092	703,487	1,153,185	\$23,350,000	1,896,672	(7.5%)	(12.1%)	1.0%	(10.4%)	
<b>TEEN</b>	741,704	177,936	\$3,412,952	919,608	742,064	175,776	\$3,022,347	917,840	(0.0%)	1.2%	12.9%	0.2%	
<b>ADOLESCENT</b>	11,294,048	3,245,314	\$49,674,566	14,503,342	10,924,697	3,113,677	\$45,170,608	14,038,374	3.0%	4.4%	10.0%	3.3%	
<b>NEW TO</b>	4,919,120	1,177,719	\$9,056,220	5,436,839	5,195,367	578,465	\$9,096,445	5,774,470	(5.3%)	(10.6%)	(0.4%)	(5.8%)	
<b>OLD SUBSCRIBERS</b>	2,946,026	1,387,759	\$45,864,219	4,333,764	3,110,488	1,410,594	\$41,649,799	4,512,082	(5.3%)	(1.0%)	9.6%	(4.0%)	
<b>MILITARY</b>	227,591	40,719	\$2,362,062	260,290	239,828	45,599	\$2,371,148	285,477	(5.1%)	(10.7%)	0.5%	(6.0%)	
<b>AFRIC</b>	629,227	210,175	\$3,549,529	839,466	632,515	195,900	\$3,197,908	827,815	(0.5%)	7.6%	11.0%	1.4%	
<b>ASIAN</b>	3,195,884	1,138,418	\$25,697,600	3,334,302	1,957,641	1,057,437	\$22,616,269	3,625,078	-21.6%	-7.7%	-19.6%	-10.2%	
<b>EUROPEAN</b>	14,121,617	3,062,022	\$123,620,611	17,423,640	14,070,679	3,036,353	\$121,009,867	17,107,030	2.5%	(6.1%)	2.2%	1.9%	
<b>INDIA (INDIA)</b>	1,100,103	6,093,706	\$201,650,712	7,192,809	1,257,306	6,387,514	\$209,421,411	7,644,820	(12.5%)	(4.5%)	(3.7%)	(5.8%)	
<b>INDONESIA</b>	9,627,611	402,507	\$30,049,197	10,030,116	9,510,249	\$19,230	\$30,575,780	9,529,536	1.2%	(4.6%)	(1.2%)	1.0%	
<b>JAPANESE/ASIAN/AMERICAN</b>	6,944,894	746,356	\$16,058,407	7,597,240	7,159,453	761,353	\$9,592,868	7,520,886	(3.0%)	(2.0%)	0.7%	(2.9%)	
<b>PETS</b>	890,527	185,232	\$3,601,925	1,073,754	913,209	173,568	\$3,314,200	1,037,161	(2.5%)	5.3%	8.7%	(1.2%)	
<b>TELEVISION</b>	1,356,968	292,701	\$4,779,539	1,649,669	1,343,033	265,833	\$4,745,560	1,626,886	1.0%	3.1%	0.7%	1.4%	
<b>SPORTS</b>	8,560,995	918,840	\$19,794,659	9,479,835	8,659,356	906,355	\$18,343,734	9,564,711	(1.1%)	1.5%	7.5%	(0.9%)	
<b>SCIENCE (TELEVISION)</b>	2,224,621	378,003	\$9,141,039	2,692,624	2,054,718	359,542	\$7,446,842	2,414,260	6.3%	5.1%	22.7%	7.8%	

### Appendix 3 Curtis Circulation Company Publication Information

CATEGORY TITLES	AVERAGES FOR SIX MONTHS ENDING 06/30/96			AVERAGES FOR SIX MONTHS ENDING 06/30/95			PERCENT CHANGE 1996 VS 1995		
	SUBSCRIP- TIONS	SINGLE COPY SALES	SOC RETAIL DOLLARS	SUBSCRIP- TIONS	SINGLE COPY SALES	SOC RETAIL DOLLARS	SUBSCRIP- TIONS	SINGLE COPY SALES	SOC RETAIL DOLLARS
<b>TOTAL</b>	26,364,032	2,598,918	\$41,694,690	26,394,824	2,605,410	\$43,164,680	(0.12%)	(0.25%)	1.31% (0.12%)
<b>SOCIETY LITERATURE</b>	5,765,622	2,172,663	\$33,109,853	5,464,420	2,377,576	\$32,263,752	5.32%	(8.62%)	2.61% (1.11%)
<b>SPORTS (GENERAL)</b>	6,225,914	656,064	\$15,850,940	6,657,734	905,989	\$14,899,186	4.07%	(2.12%)	6.41% (3.32%)
<b>SPORTS (PARTICIPATION)</b>	4,648,264	2,455,543	\$34,757,604	4,547,658	2,266,107	\$24,438,673	2.21%	8.47%	42.22% (4.31%)
<b>TEEN FAN</b>	52,061	304,284	\$4,701,701	37,559	248,556	\$3,634,303	38.67%	22.42%	29.41% (24.57%)
<b>TELEVISION</b>	9,363,211	4,435,689	\$135,691,434	9,886,150	4,777,779	\$119,268,258	(5.11%)	(7.22%)	(3.06%) (5.82%)
<b>TELEVISION FAN</b>	734,143	1,722,244	\$62,244,672	729,150	1,609,326	\$58,267,843	0.71%	7.01%	6.82% (5.01%)
<b>TRAVEL</b>	3,467,613	184,254	\$2,911,790	3,504,325	176,278	\$7,530,586	(1.32%)	4.52%	15.12% (1.11%)
<b>WORLDWIDE</b>	1,497,629	215,281	\$3,717,472	1,668,029	203,577	\$3,008,051	(19.22%)	5.82%	22.42% (8.52%)
<b>WOMEN'S (GENERAL)</b>	10,210,010	4,439,539	\$85,212,374	10,216,615	4,775,758	\$87,512,279	(0.12%)	(7.02%)	2.52% (2.92%)
<b>WOMEN'S (SERVICE)</b>	26,076,075	10,587,060	\$162,273,549	26,651,275	10,679,365	\$154,913,785	(2.16%)	(6.92%)	4.82% (2.42%)
<b>U.S. GRAND TOTAL</b>	219,267,141	76,154,218	\$1,481,724,225	225,421,258	218,745,323	\$1,452,326,342	0.21%	(3.32%)	2.05% (0.62%)

women's (service) ?

### Appendix 3 Curtis Circulation Company Publication Information



**WIPM**  
CURTIS CIRCULATION COMPANY  
PMS PAY ANALYSIS FOR SECOND HALF 1996 VS 1995

PERCENT CHANGE  
1996 VS 1995

PERCENTAGE FOR SIX MONTHS  
ENDING 06/30/95

PERCENTAGE FOR SIX MONTHS  
ENDING 06/30/96

	SUBSCRIBER TICTIONS	SINGLE COPY SALES	TOTAL	SUBSCRIBER TICTIONS	SINGLE COPY SALES	TOTAL	SUBSCRIBER TICTIONS	SINGLE COPY SALES	TOTAL	SUBSCRIBER TICTIONS	SINGLE COPY SALES	TOTAL
NET MAILING SALES	87,427,925	36,000,201	123,428,126	84,948,043	37,195,511	122,143,554	1,501	63,223	64,544	1,501	63,223	64,724
NET MAILING SALES	104,845,076	49,173,948	154,019,024	133,769,248	35,350,516	169,119,764	1,532	63,422	169,121,296	1,532	63,422	170,653
NET MAILING SALES	26,104	51,20	77,304	38,624	51,20	89,824	60,224	0,001	60,225	60,224	0,001	60,225
NET MAILING SALES	60,624	48,72	109,346	61,224	48,72	109,948	0,224	60,002	109,948	0,224	60,002	110,172
NET MAILING SALES	797,224	3,550,124	4,347,348	736,307	3,675,925	4,412,232	8,527	630,622	4,420,759	8,527	630,622	4,429,281
NET MAILING SALES	212,468,926	67,604,659	280,073,585	218,009,225	66,870,102	284,879,327	0,227	61,224	284,880,551	0,227	61,224	285,101,775
NET MAILING SALES	11,22	3,00	14,22	0,22	5,117	5,117	0,00	61,227	61,227	0,00	61,227	61,227
NET MAILING SALES	91,624	86,42	178,046	92,72	86,42	179,148	60,027	1,227	180,375	60,027	1,227	181,602
NET MAILING SALES	730,046,392	31,603,859	761,650,251	730,046,268	31,603,859	761,650,127	1,227	60,227	761,650,354	1,227	60,227	761,650,581
NET MAILING SALES	219,267,341	70,184,815	289,452,156	218,745,323	72,546,027	291,291,350	0,227	60,227	291,291,577	0,227	60,227	291,518,804



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## Appendix 4

### Categories pertaining to visual examples found

#### Types of Magazines to use

bridal  
 business  
 children  
 computer  
 fashion/ lifestyle  
 fitness/health  
 home/ garden  
 news  
   pictorial  
   tabloid  
   weekly  
 photographic/camera  
 science (technology)  
 sports  
 teen  
 woman's  
   general  
   service

#### Magazines used to date

Architectural Digest  
 Color Publishing  
 Cosmopolitan  
 Digital Imaging  
 Discover  
 Health  
 Marie Claire  
 The New Yorker  
 Nickelodeon  
 People  
 Photo/Design  
 Pre  
 Publish  
 Science Fiction Age  
 Smart Money  
 Sports Illustrated  
 Wired

#### Categories

##### Subject Matter

alcohol  
 cigarettes  
 computer applications  
 computer services  
 covers  
 editorial  
 general products  
 perfume  
 professional equipment  
 travel  
 video/computer games  
 web site ads

##### Audiences

both  
 female  
 male

##### Visual Rhetoric

Addition  
 Exaggeration  
 Substitution  
 Subtraction

Addition - introducing a new element with existing elements to emphasize meaning

Exaggeration - overemphasizing characteristics of an existing element to heighten meaning

Substitution - introducing a new element in place of an existing one to alter the meaning

Subtraction - removing an existing element to interrupt previous meaning

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## Appendix 5

### Sample letter written to professionals for opinions

Tom Ockerse  
Vice President GDEA  
Rhode Island School of Design  
Graphic Design Department  
Providence, RI 02906-3509

February 11, 1997

Dear Mr. Ockerse,

I am a graduate student in the Graphic Design Program at Rochester Institute of Technology and am currently conducting research for my thesis project. Professor Deborah Beardslee provided me with a list of members on the Board of Directors of GDEA and suggested I contact you for advice.

My topic, *The Impact of Digital Imaging on Visual Communications*, focuses on the impact that digital imaging may be having on the design profession. My intention is to focus specifically on print media (rather than television or other time-based media).

I was hoping you might have a few minutes to spare, in order to answer the following questions from your professional design perspective:

1. Is there a difference between graphic design and advertising design? If so, how would you define the difference?

Based on the definition of digital imaging as *the act of producing edited, enhanced or altered images through the use of a computer and other digital devices*,

2. Do you feel that digital imaging has had a positive or negative effect on the design profession? Please explain.

My project will ultimately lead to an interactive cd-rom for students who plan to study design. Including the views of current design professionals would add to the integrity of this application.

Perhaps you might know of other resources, online or off, concerning my project? Any suggestions will be greatly appreciated. Thank you very much for your help. I hope to hear from you soon.

Sincerely,

Holly Coulter

graduate94@aol.com  
hcc1560@rit.edu

608 Park Avenue 8B  
Rochester, NY 14607

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## Appendix 5

### Compilation of Answers Received

#### Paul Nini- GDEA

- the difference between graphic design and advertising design is intent
- advertising design is "meant to persuade (usually to cause a purchase of some sort)"
- graphic design is "meant to inform"
- graphic designers "present information to allow audiences to make informed choices, or so we hope".
  
- digital imaging "has allowed designers greater control over how they combine text and imagery"
- not only do designers have access to these tool, so do others "without the same training. While I'm not so concerned about these individuals taking work away from designers, I am concerned that designers have not done more to differentiate themselves from desktop publishers and the like".

#### Chris Pulleyn- CEO Buck & Pulleyn

- difference between graphic design and advertising design is that "at a good ad agency a great deal of effort is put into training everyone, art directors included, in the principles of marketing and understanding the client's business rather than simply focusing on the design aspects of a project. In other words, graphic design is just one aspect of effective art direction"

#### John Skrabec - AIGA Colorado

- advertising design is "more sales and marketing driven. Advertising design has to work harder to get attention"
- graphic design "usually is encountered in print collateral, or other similar intimate interaction, so I don't think it has to work as hard".
- Digital imaging is a "tremendous tool designers can add to their arsenal"

#### Dan Woychick - AIGA MN

- "a graphic designer thinks of things that an advertising designer wouldn't - flow, rhythm, sequence (brochure-mailing requirements, environmental concerns)
- advertising design is "a single surface, single page"
- " Someone who is a very good graphic designer should be able to create and design a good ad. Someone who has only worked on ads may have more difficulty translating those skills to other design applications which call on skills that aren't used in the creation of ads".
- (the digital imaging question is) "not a yes or no answer - positive and negative effects are: positives are "better control, new possibilities", negatives are "professions obliterated, expensive, copyright issues, changed time frames- customers expect faster turn around"

#### Bruce Meader - RIT

- graphic designers "communicate ideas and information"
  - advertising designers "sell a product or service"
- Similarities include - "communication, conveyance of a message to an intended audience, both use words and pictures, visual means as the vehicle to carry message, any visual communication has some kind of persuasive component"

## Appendix 5

### Letter Information

letters written to:

<b>AIGA</b> January 27, 1997 Brenda Foster President AIGA Baltimore AIGABalt@aol.com	January 27, 1997 Shel Perkins President AIGA San Francisco AIGASF@aol.com	January 27, 1997 Steve Pattee President AIGA Iowa AIGAIA@aol.com
January 27, 1997 Kurt Roscoe President AIGA Cleveland AIGAClev@aol.com	January 27, 1997 Cindy Shake President AIGA Anchorage AIGAanch@aol.com	January 27, 1997 Alicia Johnson President AIGA Portland AIGAport@aol.com
January 23, 1997 Kathleen Schenck Row President AIGA New York AIGANY@aol.com	January 27, 1997 Nancy Essex President AIGA Chicago AIGACHgo@aol.com	January 27, 1997 Dan Woychick President AIGA Minnesota AIGAMinn@aol.com
January 27, 1997 Matthew Bartholomew President AIGA Philadelphia AIGAPhilly@aol.com	January 27, 1997 John Skrabec President AIGA Colorado AIGACO@aol.com	January 27, 1997 Karen Long President AIGA Wichita AIGAWichta@aol.com
January 27, 1997 Frank Gilliam President AIGA Richmond mail@frankinstreet.com	January 27, 1997 Dave Buffington President AIGA Detroit AIGADet@aol.com	January 27, 1997 Traci O'Very Covey President AIGA Salt Lake City AIGAUTAH@aol.com
January 27, 1997 Sam Shelton President AIGA Washington, DC AIGAWashDC@aol.com	January 27, 1997 Lynn Kinoshita President AIGA Honolulu AIGAHonolulu@aol.com	January 27, 1997 Chris Pulleyn CEO Buck & Pulleyn cpulleyn@pulleyn.comAAAA's homepage and thought, with your position as the CEO of Buck & Pulleyn
January 27, 1997 Steve Martun President AIGA Atlanta AIGAAtl@aol.com	January 27, 1997 Lance Brown President AIGA Texas AIGATex@aol.com	January 27, 1997 Bennett Peji President AIGA San Diego AIGASandi@aol.com
January 27, 1997 Barry Graham President AIGA Birmingham AIGABG629@aol.com	January 27, 1997 David Rengifo President AIGA Phoenix AIGAZ@getnet.com	January 27, 1997 John Emery President AIGA Cincinnati Chapter AIGACinci@aol.com
January 27, 1997 Jefferson Rall President AIGA Jacksonville AIGAJax@aol.com	January 27, 1997 Jesse Doquilo President AIGA Seattle AIGASea@aol.com	January 23, 1997 Steve Martin President AIGA Atlanta AIGAAtd@aol.com
January 27, 1997 Robin Rosenbaum President AIGA Miami Robin@onboard.com	January 27, 1997 Scott Johnson President AIGA Indianapolis AIGAIndpls@aol.com	January 23, 1997 Paul Montie President AIGA Boston AIGABoston@aol.com
January 27, 1997 Jessie Couch President AIGA Raleigh AJCouch@intrex.net	January 27, 1997 Dan Auman President AIGA Kansas City AIGAKC@aol.com	January 23, 1997 Kathleen Schenck Row President AIGA New York AIGANY@aol.com
January 27, 1997 Dean Gerrie President AIGA Orange County Dulagerrie@aol.com	January 27, 1997 Scott Gericke President AIGA St. Louis AIGAStl@aol.com	

## Appendix 5

### Letter Information *continued*

letters written to:

RIT	Board of Directors of GDEA	MISC
<p>January 29, 1997 Professor Patti Lachance Assistant Professor Graphic Design PJLFAA@rit.edu</p>	<p>January 31, 1997 Garland Kirkpatrick helvjones@aol.com</p>	<p>January 27, 1997 Bryan Forman Advertising Art Direction b4man@4man.com through Advertising Professionals Online experience in advertising art direction</p>
<p>January 29, 1997 Professor Mary Ann Begland Chairperson, Graphic Design MABFAA@rit.edu</p>	<p>January 31, 1997 Andrea Wollensak ajwol@conncoll.edu</p>	<p>January 27, 1997 Jim Nuttle President ADCMW jnuttle@his.com Dear Mr. Nuttle, President of ADCMW</p>
<p>January 29, 1997 Professor Marianne O'Loughin Assistant Professor Graphic Design MEOFAA@rit.edu</p>	<p>January 31, 1997 Michael Rock gd_faculty@QuickMail.Yale.edu</p>	<p>January 30, 1997 Mr. Ralph Vieau President Al Collins Graphic Design School alcollins@goodnet.com</p>
<p>January 29, 1997 Professor Jim VerHague Professor Graphic Design JCVFAA@rit.edu</p>	<p>January 31, 1997 Paul Nini pnini@magnus.acs.ohio-state.edu</p>	<p>January 27, 1997 Jim Nuttle President ADCMW jnuttle@his.com President of ADCMW</p>
<p>January 29, 1997 Professor Heinz Klinkon Associate Professor Graphic Design HAKFAA@rit.edu</p>	<p>January 31, 1997 Diane Gromala Secretary GDEA gromala@u.washington.edu</p>	<p>January 27, 1997 Bryan Forman Advertising Art Direction b4man@4man.com Advertising Professionals Online experience in advertising art direction</p>
<p>January 29, 1997 Professor Bruce Ian Meader Assistant Professor Graphic Design BIMFAA@rit.edu</p>	<p>January 31, 1997 Anne Bush President GDEA anneb@uhunix.uhcc.hawaii.edu</p>	<p>January 27, 1997 David O'Brien President / Creative Director O'Brien Advertising and Design obadv@primenet.com Advertising Professionals Online, President and Creative Director of company</p>
<p>January 29, 1997 Professor Alan Singer Assistant Professor Graphic Design ADSFAA@rit.edu</p>	<p>January 31, 1997 Mr. John Bowers bowersj@umich.edu</p>	
	<p>January 31, 1997 Mr. Leif Allmendinger Treasurer GDEA Leif@art.niu.edu</p>	

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## Appendix 5

### Letter Information *continued*

letters written to:

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**not deliverable**

January 31, 1997  
Michael Rock  
gd\_faculty@QuickMail.Yale.edu

January 27, 1997  
Dean Gerrie  
President AIGA Orange County  
Dulagerrie@aol.com

January 27, 1997  
Barry Graham  
President AIGA Birmingham  
AIGABG629@aol.com

January 31, 1997  
Mr. John Bowers  
bowersj@umich.edu

January 27, 1997  
Lynn Kinoshita  
President AIGA Honolulu  
AIGAHonolulu@aol.com

Richard Grefe  
January 22, 1997  
AIGA  
Executive Director  
Grefe@aol.com  
frrrom Bruce Meader

**replies**

Mon, 27 Jan 1997 15:09:42 -0500  
From: cpulleyn@pulleyn.com (Chris Pulleyn)  
"hcc1560@ritvax.isc.rit.edu"

Mon, 27 Jan 1997 18:25:20 -0500  
From: AIGAWashDC@aol.com  
hcc1560@ritvax.isc.rit.edu

Tue, 28 Jan 1997 07:30:37 -0500  
From: AIGAtex@aol.com  
hcc1560@ritvax.isc.rit.edu

Tue, 28 Jan 1997 14:00:11 -0500  
From: AIGACO@aol.com  
hcc1560@ritvax.isc.rit.edu

Thu, 30 Jan 1997 13:17:10 -0500  
From: AIGAMINN@aol.com  
hcc1560@ritvax.isc.rit.edu

Paul Nini  
Department of Industrial, Interior,  
and Visual Communication Design  
The Ohio State University  
nini.1@osu.edu  
GDEA

Professor Mary Ann Begland  
Chairperson, Graphic Design  
MABFAA@rit.edu

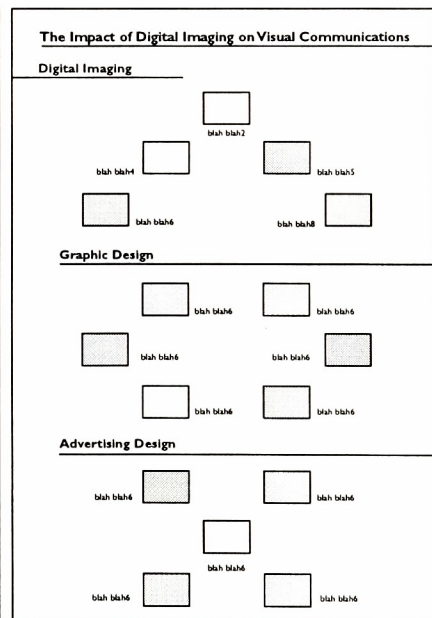
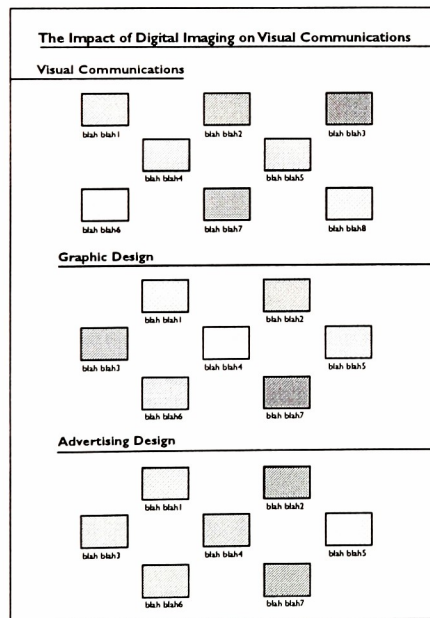
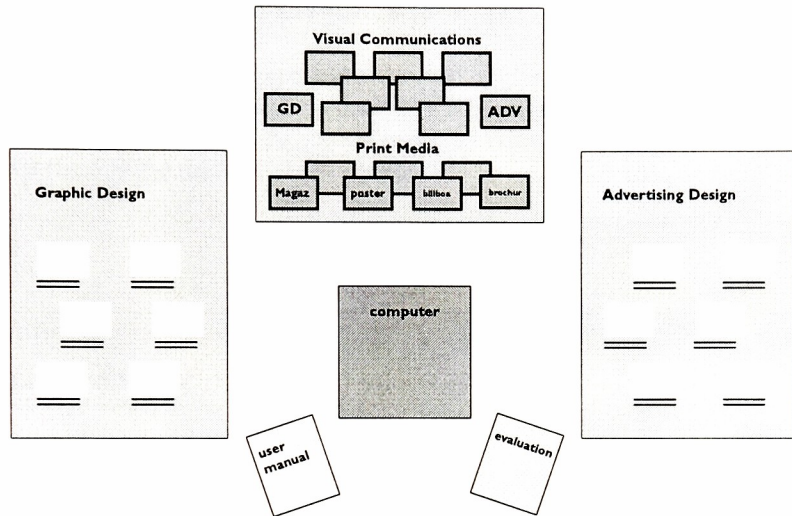
Professor Bruce Ian Meader  
Assistant Professor Graphic Design  
BIMFAA@rit.edu

Professor Alan Singer  
Assistant Professor Graphic Design  
ADSFSA@rit.edu

# Appendix 6

## Thesis Show Panel Sketches

 = screen shots for cd rom



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## Appendix 7

### Thesis Show Panels

#### Descriptions for Panels

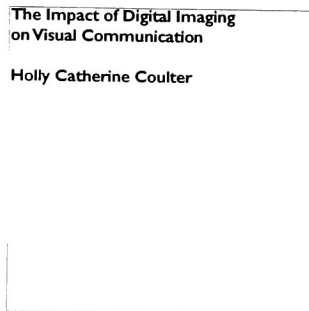
Posters displayed in the Bevier Gallery for the Thesis show reception, May 2, 1997.

Original sizes for posters 1, 2 and 4 were 36" x 22"

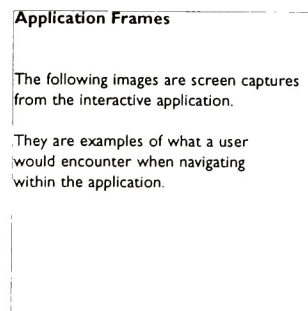
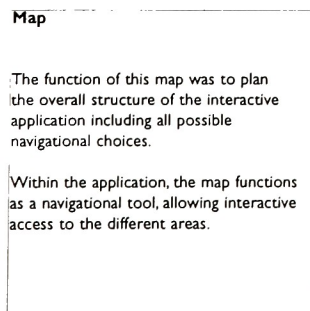
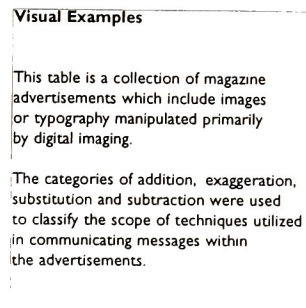
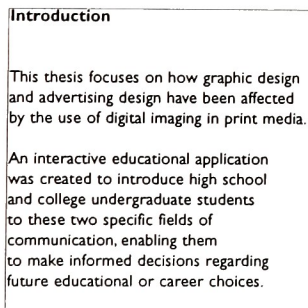
Poster 3 was 22" x 22".

All were mounted on foam core and protected by glass.

The posters were accompanied by small 5" x 5" panels also mounted on foam core and protected by glass in order to assist the viewer in understanding the content of the panels.

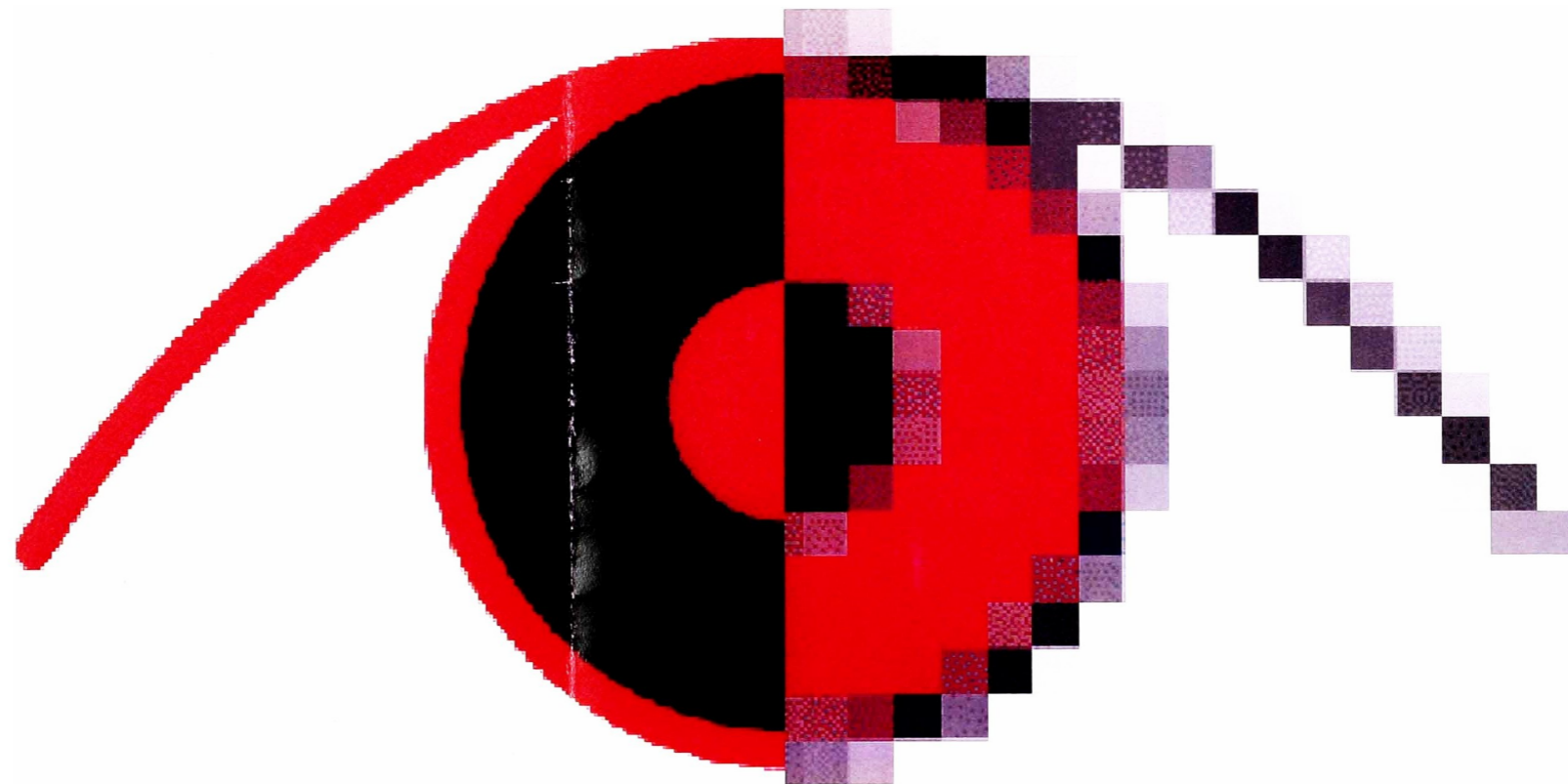


mounted on the pedestal where the computer stands



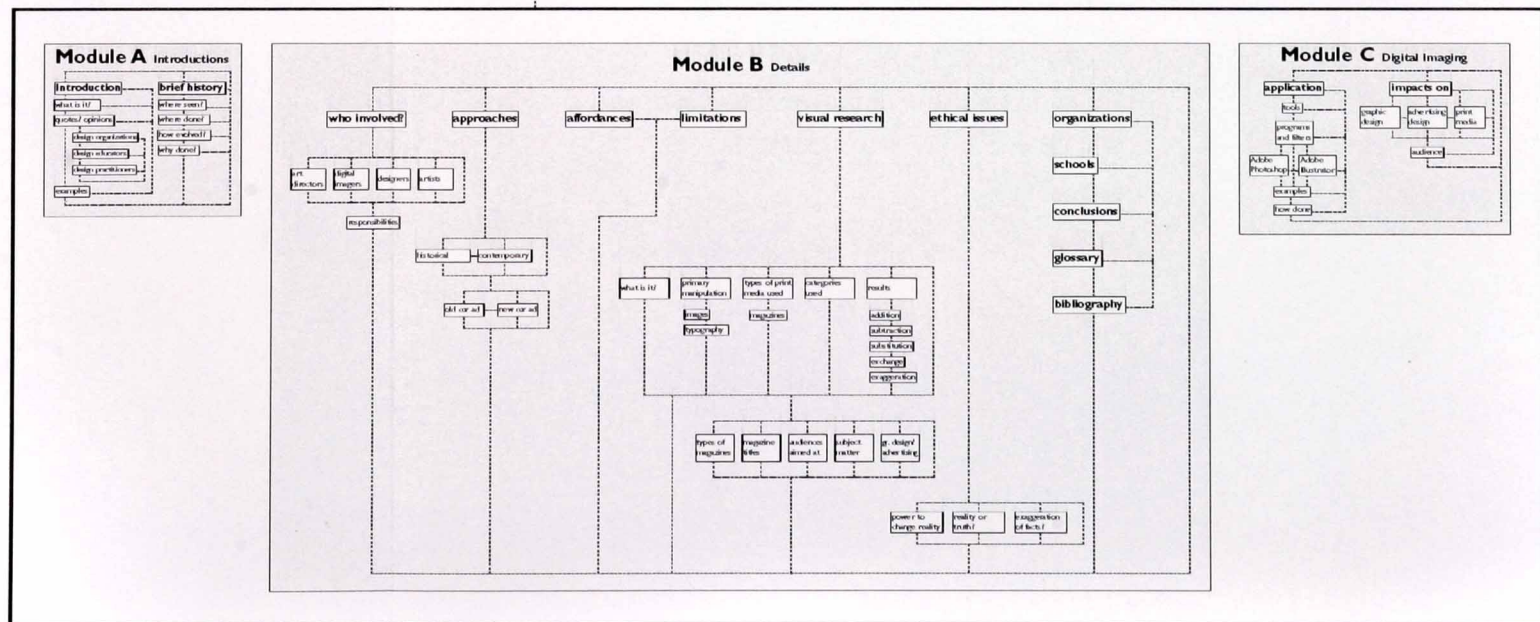
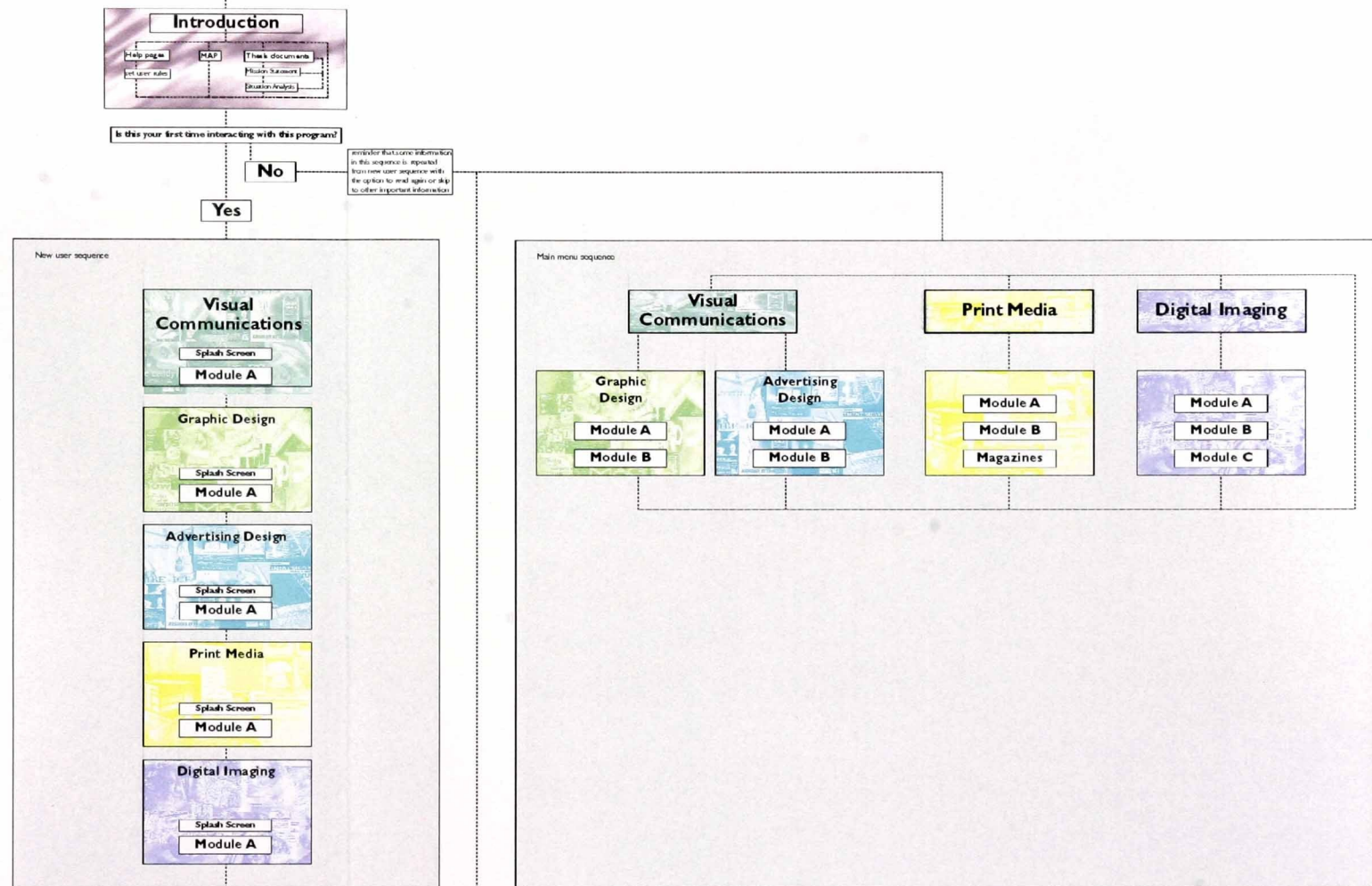


# The Impact of Digital Imaging on Visual Communication





# The Impact of Digital Imaging on Visual Communication



# The Impact of Digital Imaging on Visual Communication / CD-ROM Application Frames

## The Impact of Digital Imaging on Visual Communication

Click on eye to continue

## Welcome

is this your first time interacting with this program?

**Yes**  
go to new user sequence

**No**  
go to main menu sequence

## Help

There are two "sequences" in this application. One is a New User Sequence and the other is the Main Menu Sequence. If you are a new user please choose Yes when asked if you have visited before. This will give you a general introduction to all the main topics discussed. The main menu sequence contains the same information with additional information you may find interesting.

Each page contains a navigational bar at the bottom of the screen enabling the user to easily navigate through the application. At anytime, click on the eye logo and you will arrive at the whole systems map which reveals a small version of the overall application. There you can click on an area and see an enlarged view to decide what you would like to learn more about.

The green, yellow and blue boxes represent parallel information in other topics. For example, you are reading about the history of print; needs and would like to compare it to the history of digital imaging, you would click on the blue box.

The left and right arrows will allow you to simply go to the next page.

The Quit button will quit the application (for the thesis show it will return you to the Title page of the application).

Throughout the application there are many clickable items on the pages. If you are interested in a specific topic, click on it to read more about it. Redlines words in the text are clickable and will then show definitions.

Each screen is color coded:

- Gray for introduction topics
- Dark Green for visual communication topics
- Medium Green for graphic design topics
- Light Green for advertising topics
- Yellow for print media topics
- Blue for digital imaging topics

Introduction Quit

## Situation Analysis

As we approach the 21st century, the use of digital imaging continues to increase. Frank Romano, a distinguished professor at Rochester Institute of Technology states that in 1984 there was an average of 125 students per computer, today this number is less than nine.

Digital imaging emerged in 1984 with the introduction of the Macintosh workstation. Most advertising agencies and design studios, specializing in print media, are now using computers as tools for image development and production. The dominance of the use of computers and digital imaging however, raises many questions in the minds of students of visual communication fields such as design and photography. Has digital imaging improved the quality of communication and persuasion on advertisements? Are the ads which represent the products more effective using digital imaging? How has digital imaging affected the creative process in the design of advertisements?

Digital imaging is used and manifested itself in many forms of visual communication. From a wide spectrum of applications, a critical survey of digital imaging in students studying in the visual communications fields. Its impact on advertising is relevant to all image creation and will continue to be so. What we have witnessed so far is most likely just the tip of the iceberg in terms of the potential of digital imaging on the design and advertising fields. The future looks bright and exciting for digital imaging especially in the visual communications fields.

Introduction Quit

## Map

Introduction Quit

## Visual Communications

Quit

## Graphic Design

Quit

## What is it?

A graphic designer clarifies, organizes and shapes information bringing meaningful form to communication. They translate the communication goals of others through printed and electronic presentations of information and ideas. Graphic designers use words (typography) and images (photographs, illustrations, diagrams, abstract shapes, textures, lines, and color) to express messages for the purpose of informing, persuading, and inspiring individuals and audiences who are receiving the messages to act.

The main goal of a graphic designer is to interest the reader to the extent that they will first take notice, then be motivated to digest more of the information and remember the contents, and finally either purchase, think favorably about, or apply the information given.

Graphic Design Quit

## Advertising Design

Quit

## History

Advertising is as old as history existing ever since man had a surplus of anything. When it wasn't needed by one, he then traded the unwanted with the wanted.

As first advertising was vocal, people shouted throughout towns advertising their goods to sell to neighbors or anyone in earshot. Now the advertising voice penetrates a few thousand miles farther. Soon visual advertising came into play and for those who were unable to read, symbols were used. A red and white striped barber's pole is a great example of this. Another example is this historical sign (right), set in stone, used by Roman merchants. It was advertising for hams sold in a butcher's shop.

During the 15th century, Johann Gutenberg developed movable type which enabled advertising to reach a wide variety of people at a greater distance and faster. Ever since, advertising has been used to attract people to buy items, go places and do things that could only make their lives better or happier.

Advertising has grown with the country and helped establish its marketing system. Major developments were occurring such as transportation, population, inventions and manufacturing.

The American industrial revolution, a growing middle class, mass production, improved transportation and high speed printing presses combined to pave the way for modern marketing and advertising.

Advertising Design Quit

## Review: Advertisement

People weekly magazine  
February 12, 1996  
page 9

Often the use of sex appeals is apparent. Think of the awful women encourage others to think that they too will have the same appeal if they use this product.

Image description Quit

## Glossary

**Account executive**  
an advertising agency employee primarily responsible for maintaining liaison with designers, agency clients, and for development and control of advertising plans for clients.

**Advertising**  
as defined by the Dictionary of Advertising: 1) a marketing process which uses advertisements directed to prospects as a means of meeting marketing objectives as a marketing tool, advertising is uniquely able to reliably and quickly deliver consistent messages; efficiently 2) a commercial profession or craft which seeks to develop and place advertisements in the most productive, efficient manner possible.

**Advertising agency**  
an independent commercial service or organization that contracts with advertisers to develop and manage their advertising for a fee or for a commission derived from a standard media discount on the advertiser's spending.

**Art director**  
an employee of an advertising agency or similar organization who is responsible for developing the general design and supervising the final artwork and typography of advertisements.

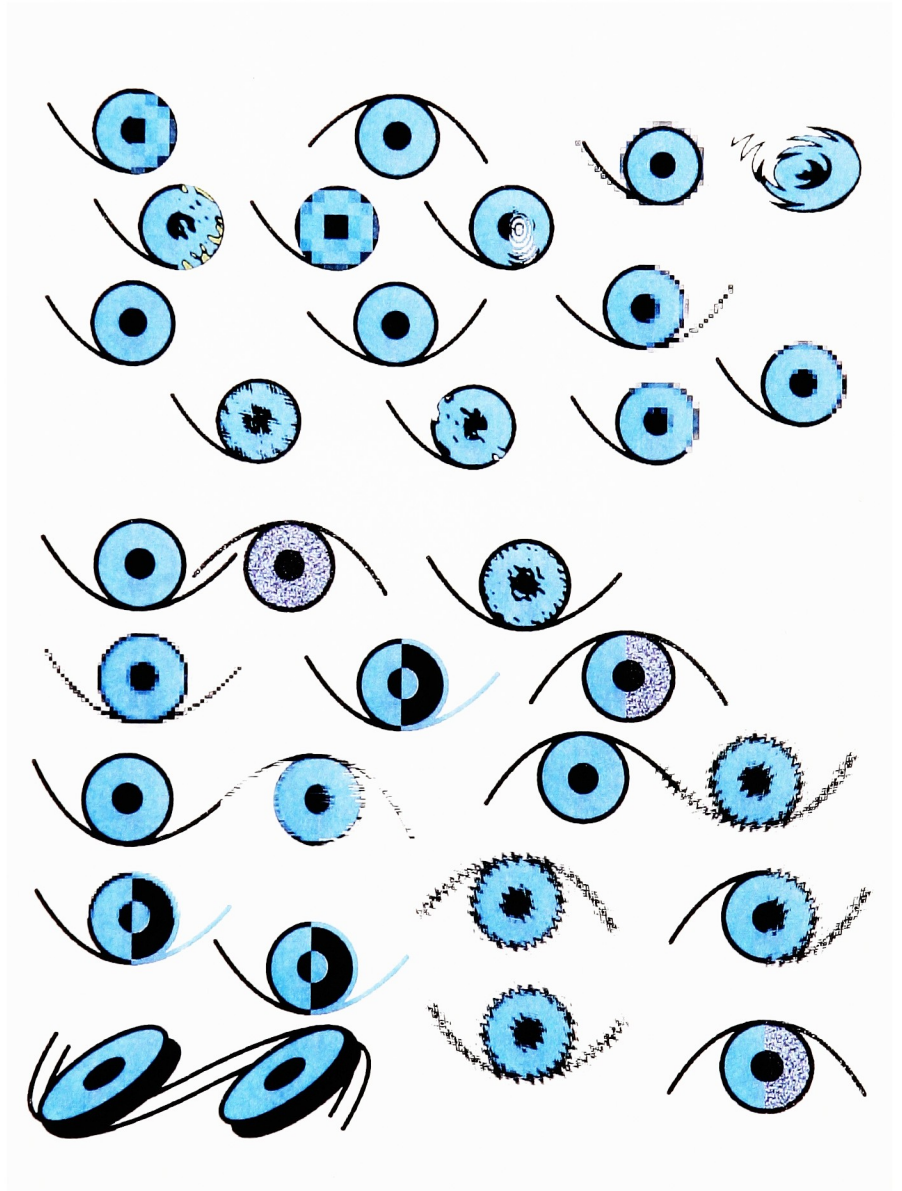
**Billboards**  
are the largest graphic form and is very similar to a poster. Subject to extreme variables of lighting as well as environmental distractions. Simplicity is the key. The copy must be brief, large and legible.

**Books**  
are diverse formats among the most personally rewarding opportunities for graphic designers because their format is not fixed which may encourage creativity. Books are the most valued because of their permanence. They have been the major vehicle for the shaping of education, recording of history, the interchange of information. The cover introduces the subject matter through design, illustration and texture. All elements are organized graphically through spacing and typography and they are created by total designing concept.

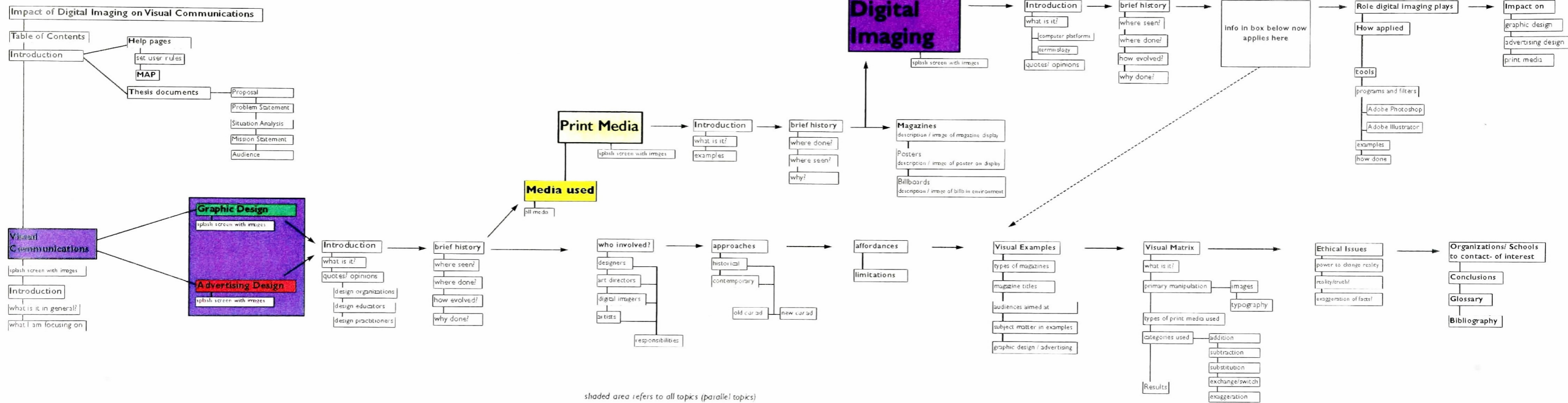
Introduction Quit



Appendix 8  
Logo sketches *continued*



**Appendix 9**  
**Whole System / Navigational Map**



# Appendix 10

## Application Frame Sketches

**Introduction**

Setting up "rules"

remember if you see a small image and want to see it close up and would like to see more information, click on the image

← → TOC Quit

**Visual Communications**

communicating messages through visual media

These are some of the areas related to visual communications. Here focused on graphic design, advertising design and print media. Click on one of these topics to begin.

← → TOC Quit

**Table of Contents**

communicating messages through visual media

Visual Communications  
 Digital Imaging  
 Print Media  
 Graphic Design  
 Advertising Design

← → TOC Quit

**Visual Communications**

communicating messages through visual media

These are some of the areas related to visual communications. Here focused on graphic design, advertising design and print media. Click on one of these topics to begin.

← → TOC Quit

**Digital Imaging**

the act of producing edited, enhanced or altered images through the use of a computer or other digital devices

Here are some examples of various digital imaging digital imaging applied to ... Click on one that interests you to get a closer look.

← → TOC Quit

**Print Media**

any form of two dimensional information that has been printed using ink

Here are some examples of print media. Click on one that interests you to get a closer look.

← → TOC Quit

**Visual Communications**

**Print Media**  
 any form of two dimensional information that has been printed using ink

Here are some examples of print media. Click on one that interests you to get a closer look.

← → TOC Quit



# Appendix 10

## Application Frame Sketches *continued*

### Graphic Design

activity of combining typography, illustration, photography, and printing for purposes of persuasion, information or instruction

ex. 1      ex. 2      ex. 3      ex. 4

Here are some examples of how digital imaging digital imaging was applied to graphic design. Click on one that interests you to get a closer look.

← → [TOC](#) [Quit](#)

### Advertising Design

printed or spoken matter that calls attention to a product or service

ex. 1      ex. 2      ex. 3      ex. 4

Here are some examples of how digital imaging digital imaging was applied to advertising design. Click on one that interests you to get a closer look.

← → [TOC](#) [Quit](#)

### Visual Communications

#### Graphic Design

activity of combining typography, illustration, photography and printing for purposes of persuasion, information or instruction

ex. 1      ex. 2      ex. 3      ex. 4

Here are some examples of how digital imaging digital imaging was applied to graphic design. Click on one that interests you to get a closer look.

← → [TOC](#) [Quit](#)

### Visual Communications

#### Advertising Design

printed or spoken matter that calls attention to a product or service

ex. 1      ex. 2      ex. 3      ex. 4

Here are some examples of how digital imaging digital imaging was applied to advertising design. Click on one that interests you to get a closer look.

← → [TOC](#) [Quit](#)

### Examples

#### Absolut Vodka

Absolut Vodka advertisements have become quite popular over the years because of their creativity and use of visual puns.

← → [TOC](#) [Quit](#)

### Digital Imaging

#### Filter Effects

the computer is an amazing tool. Often effects are created through the use of filters

#### Adobe Photoshop

#### Adobe Illustrator

Here are some examples of different filters and their effects. Click on one that interests you to get a closer look and more information.

← → [TOC](#) [Quit](#)

### Visual Communications

communicating messages through visual media

Absolut Vodka advertisements have become quite popular over the years because of their creativity and use of visual puns.

← → [TOC](#) [Quit](#)

### Digital Imaging

#### Filters

#### Adobe Photoshop

Adobe Photoshop is just one of many image applications on the market today. Although many artists prefer these programs, there are many plugins you can add.

Remember you have many options within each filter as your effects could be completely different depending on the settings you have chosen. Click on an example that interests you to get a closer look and more information.

← → [TOC](#) [Quit](#)

# Appendix 10

## Application Frame Sketches *continued*

**Filters**

Adobe Photoshop  
Twirl

I selected the part of the image I wanted to change and applied the twirl filter.

← → TOC Quit

**Advertising Design**

Brief history

This isn't really the text that will be going here. Advertising has been practiced for hundreds of years. The first methods were sending a man out in the streets to shout about goods he had for sale. Then the invention of printing enabled people to post advertisements around. Now, with magazines and newspapers advertising is seen all over the place.

The following are famous ads from the past.

← → TOC Quit

**Digital Imaging**

Filters

Adobe Illustrator

Adobe Illustrator is another of many image applications on the market today. Although many artists prefer these programs, there are many plugins you can add.

Remember you have many options with each filter so your effects could be completely different depending on the settings you have chosen. Click on an example that interests you to get a closer look and more information.

← → TOC Quit

**Graphic Design**

Brief history

There are many famous designers from the past that all designers should know about. There are many famous designers from the past that all designers should know about. There are many famous designers from the past that all designers should know about. There are many famous designers from the past that all designers should know about.

The following are famous designs from the past.

← → TOC Quit

**Advertising Design**

Approaches

**historical**

In the earlier years of advertising there were no computers. Every thing was done by hand. In the earlier years of advertising there were no computers. Every thing was done by hand. In the earlier years of advertising there were no computers. Every thing was done by hand. In the earlier years of advertising there were no computers. Every thing was done by hand.

**contemporary**

Today we are fortunate to have the computer as a tool. Most layouts and storyboards are compiled on the computer where all the information is transformed into digital media. Today we are unfortunate to have the computer as a tool. Most layouts and storyboards are compiled on the computer where all the information is transformed into digital media.

← → TOC Quit

**Graphic Design**

Approaches

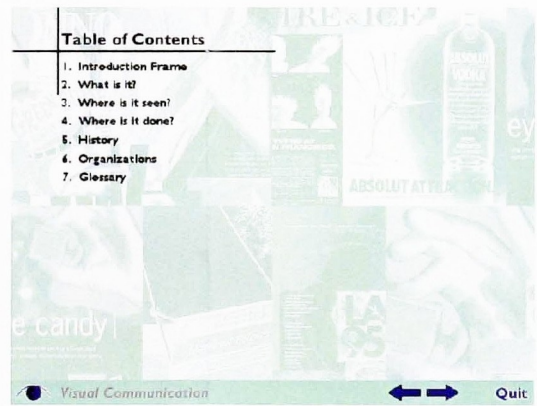
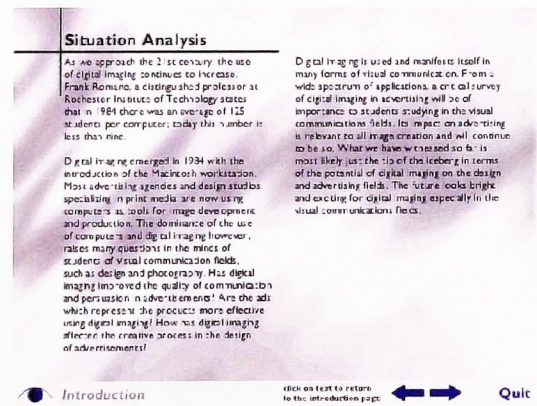
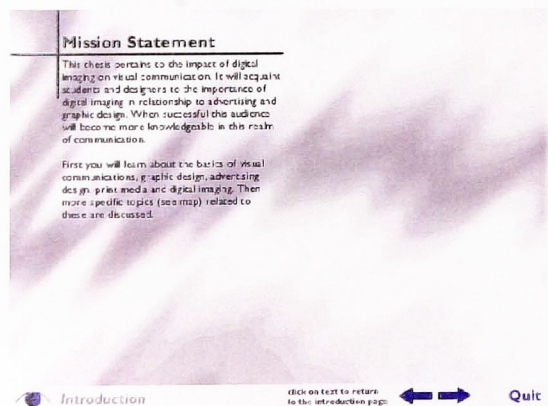
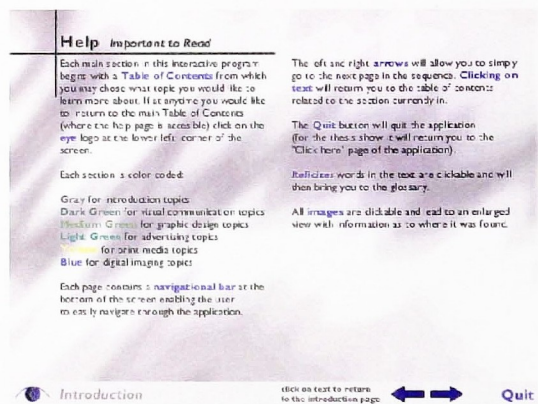
**historical**

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← → TOC Quit



# Appendix II


## Application Frames *continued*

read from left to right

### Where is it seen?

Visual Communication is seen where ever there is a message that intends to reach a specific audience by the use of signs, as opposed to sound.

In the following modules you learn more about two fields of study that fall under the category of visual communication: graphic design and advertising design. Both realms of communication go into greater detail of where each are seen. As you will see later, with the exception of print, both are quite similar.



click on image for more detail


click on text to return to the table of contents

Visual Communication

### Where is it done?

Visual Communication is done or created by a wide variety of people. Painters, illustrators, photographers, graphic designers, advertising designers, multimedia artists, developers, and many others are creators of visual communication.

These people may work in large corporations, studios, design firms, agencies, television stations or possibly freelance out of their home.



click on image for more detail


click on text to return to the table of contents

Visual Communication

### History

The history of Visual Communication, like graphic design and advertising has been evident over time. Man first introduced the cork bery in history, visual communication was the only way to express oneself. Cave men were presumed to not only hunt and point, but communicated through the use of pictographs carved into cave walls.

To the right is an example of a cave painting from Lascaux, c. 15,000-10,000 B.C. most likely created for utilitarian and ritualistic purposes. Possibly to teach the younger members of society on the process of hunting.



click on image for more detail

click on text to return to the table of contents

Visual Communication

### Organizations

<b>Advertising Club of New York</b> 155 East 55th Street, Suite 202 New York, NY 10022 212-935-3082	<b>American Council for the Arts</b> 570 Seventh Avenue New York, NY 10018 212-354-6535
<b>American Advertising Federation</b> 1225 Connecticut Avenue, NW Washington, DC 20036 202-896-2089	<b>The American Institute of Graphic Arts</b> 1639 Third Avenue New York, NY 10022 1800-546-1634
<b>American Association of Advertising Agencies</b> 666 3rd Avenue New York, NY 10017 212-662-1500	<b>American Marketing Association</b> 222 South Riverside Plaza Chicago, IL 60606 312-646-0536
<b>The American Center for Design</b> 233 East Cicero, Suite 500 Chicago, IL 60611 312-767-3018	<b>The Art Directors Club of New York</b> 250 Park Avenue South New York, NY 10003 212-674-0550
	<b>Artists in Print</b> Building D, Fort Mason Center San Francisco, CA 94123 415-673-6941

click on text to return to the table of contents

Visual Communication

### Organizations

<b>Association of National Advertisers</b> 155 East 42nd Street New York, NY 10017 212-697-5950	<b>The Industrial Design Society of America</b> 1142 East Walker Road Greer, VA 22056 703-758-0100
<b>Center for Arts Information</b> 625 Broadway New York, NY 10012 212-477-7346	<b>International Council of Graphic Design Associations</b> 17 Bldon Terrace, Hunslet Common London SE18 7RS, England
<b>College Art Association of America</b> 149 Madison Avenue New York, NY 10016 212-865-2113	<b>National Association of Broadcasters</b> 1771 N Street, NW Washington, DC 20036 202-419-5100
<b>The Design Management Institute</b> 107 South Street Boston, MA 02111 617-336-5282	<b>The One Club</b> 3 West 18th Street New York, NY 10011 212-355-7070
<b>The Graphic Artists Guild</b> 11 West 20th Street, 8th floor New York, NY 10011 212-777-7353	<b>The Packaging Designers Council</b> P.O. Box 1332 Hickory Valley, NY 12569 514-635-9153

click on text to return to the table of contents

Visual Communication

### Organizations

<b>The Society of Illustrators</b> 128 East 63rd Street New York, NY 10021 212-638-2546
<b>Society of Typographic Arts</b> 233 East Ontario, Suite 301 Chicago, IL 60611 312-767-2018
<b>The Society of Publication Designers</b> 60 East 42nd Street, Suite 1416 New York, NY 10165 212-963-3585

click on text to return to the table of contents

Visual Communication

### Table of Contents


1. Introduction Frame
2. What is it?
3. Where is it seen?
4. Where is it done?
5. Who is involved?
6. History
7. Visual research
8. Organizations
9. Glossary

click on text to return to the table of contents

Graphic Design

### Graphic Design

click on text to return to the table of contents



click on image for more detail

Graphic Design

### What is it?

A graphic designer creates, directs and shapes information bringing meaningful form to communication. They translate the communication goals of others through printed and electronic presentations of information and text. Graphic designers use words (typography) and images (photographs, illustrations, diagrams, abstract shapes, textures, lines, and color) to express messages for the purpose of informing, persuading, and inspiring individuals and audiences who are receiving the messages to act.

The main goal of a graphic designer is to interest the reader to the extent that they will first take notice, then be motivated to digest more of the information, remember the concepts, and finally either purchase, think favorably about, or apply the information given.



click on image for more detail


click on text to return to the table of contents

Graphic Design

### Where is it seen?

Graphic designs, good or bad, are seen wherever people can see them. Some examples include but are not limited to music covers, newspapers, book jackets and inserts, museum exhibitions, websites, film introductions, news covers, journals, magazines, animations, signs in public spaces, posters and flyers, business stationary, signs, mail order catalogs, book covers, graphics, billboards, advertisements, direct mail, calendars, menus, greeting cards, stamps and annual reports.

Often we are unaware of the many designs we see everyday, probably because there is an over abundance of it. Even those of us who aren't designers still make design decisions everyday from what clothes to wear to where the kitchen table will go in your new home.



click on text to return to the table of contents

Graphic Design

### Where is it done?

Graphic design studios or design offices address a variety of client communication goals, only one of which may be improved sales. Work may focus on educating or motivating audiences or improving the efficiency with which company communications operate. Graphic designers in these offices often redesign communications strategies that include audiences in and out of the company. Generally, graphic designers in studios work as part of a creative team managed by the client, writers and media people are not usually employees of the studio, but may be hired as freelancers.

The graphic design studio sometimes parallels the advertising agency or produces advertising marketing programs for clients. Usually such studios can service a wide range of client needs from a one-time brochure directly for a manufacturer, to all the graphic design services for advertising agencies or corporate.

Graphic studios frequently concentrate on but certainly aren't limited to illustration, photography, media, advertising, packaging, design, or annual reports. The largest employers of graphic design skills are advertising agencies, graphic design studios and publishers.

click on text to return to the table of contents

Graphic Design

### Who is involved?

Graphic designers are active in all aspects of the communication industry. They design books, magazines, and newspapers as part of the publishing industry. Graphic designers create printed materials, such as annual reports, newsletters, stationery, and collateral literature, as part of the effort to establish memorable and cohesive "devices" for the studios, businesses, and government. The designers who work on these projects are employed by advertising agencies, independent design studios, or by the corporation or government itself as part of an internal communications department. Institutions, such as museums and colleges, employ graphic designers as members of their staff to design and produce publications and exhibitions. Other areas graphic designers are often responsible for are packaging design, environmental signage, film titling, television on-air graphics, and the displays on computer screens.

click on text to return to the table of contents

Graphic Design

### History

The term "graphic designer" was first coined in 1922 by William Addison Dwiggins, an American book and type designer. The term did not become universal until after World War II.

Graphic design has evolved from a series of art movements beginning in the late nineteenth century. Some include, in alphabetical order, the Bauhaus, Constructivism, Cubism, Dada, De Stijl and Surrealism movements.

From the early 1930's to the end of WWII the American graphic design community was enriched by an influx of innovative European designers fleeing from the deteriorating political situation in Europe. Some important designers included Jesse 'Johnny' Sage, Herbert Bayer, and in the early 1940's, Paul Rand, William Golden and Saul Bass to name a few.

For more information on the history of Graphic Design, a great book to have in your library is Philip Meggs, A History of Graphic Design.

Paul Rand's design for Carhart's

click on image for more detail

click on text to return to the table of contents

Graphic Design

### Table of Contents

1. Introduction Frame
2. What is it?
3. Where is it seen?
4. Where is it done?
5. Who is involved?
6. History
7. Visual research
8. Organizations
9. Glossary

click on text to return to the table of contents

Advertising Design

### Advertising Design

click on text to return to the table of contents



click on image for more detail

Advertising Design


**Appendix II**  
**Application Frames** *continued*  
 read from left to right

### What is it?

Advertising comes from the Latin word "advertis" which means to turn one's mind toward" and is the entire process by which the messages you see are conceived, researched, prepared, and placed where they can be seen and heard. Advertising brings people and products together.

Advertisements are one of the most important cultural factors molding and reflecting our life today. Advertisements must take into account not only the interests, qualities and tastes of the products they are trying to sell, but also the way in which they can make those properties most convincing to us.

The primary goal of an advertising designer is to sell products or ideas to the public by stopping the viewer in his tracks and redirecting their attention on to the information you want them to read.



click on text to return to the table of contents


Advertising Design

### Where is it seen?

Advertisements are placed wherever people can see or hear them from.

Advertisements are found in media, such as television, radio, newspapers, magazines, billboards, posters, catalogs, brochures and more.

The photograph at the right is typical of New York City's Times Square. There is always an abundance of advertisements found in close all over the country that all compete with each other for attention.



click on image for more detail

Advertising Design

### Where is it done?

Advertising agencies are full service organizations that offer copy writing, design, production, and media placement on radio and television. They direct their efforts primarily toward improving the sales of a client's product or services. For the most part, advertising agencies are interested in campaigns rather than one time projects such as a brochure or annual report. They create, produce and place advertisements as well as research the market, public reactions. It is common for clients to work with advertising agencies, executives, radio, television and other agencies in the agency.

Someone also has to lay it all out. Usually consisting of a headline, image or illustration often of the product, and body copy all prepared in an organized, accurate, clear, uncluttered format.

The job of the advertising art director is to put words and images that make a viewer stop, look, and listen. Other positions in an advertising agency include art buyers, proofreaders, artists, writers, assistants, art directors, art and design people, project artists, multi-media writers, and photographers.



click on text to return to the table of contents

Advertising Design

### Who is involved?

Advertisements are usually created by a team of people. Each division of the team are writing, art direction, and production. Someone needs to write the script into words that tell the story clearly, succinctly and forcefully.

Questions designers think about:  
 What can it (the product) do?  
 How does it work?  
 How it differs from competition?

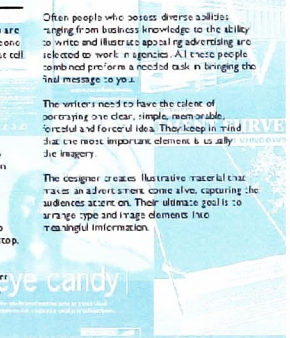
Someone also has to lay it all out. Usually consisting of a headline, image or illustration often of the product, and body copy all prepared in an organized, accurate, clear, uncluttered format.

The job of the advertising art director is to put words and images that make a viewer stop, look, and listen. Other positions in an advertising agency include art buyers, proofreaders, artists, writers, assistants, art directors, art and design people, project artists, multi-media writers, and photographers.

Often people who possess diverse abilities ranging from business knowledge to the ability to write and illustrate appealing advertising are released to work in agencies. All these people combined perform a needed task in bringing the final message to you.

The writers need to have the talent of portraying one clear, simple, memorable, forceful and forceful idea. They keep in mind that the most important element is usually the imagery.

The designer creates illustrative material that makes an advertisement come alive, capturing the audience's attention. Their ultimate goal is to arrange type and images elements into meaningful information.



click on text to return to the table of contents

Advertising Design

### History

Advertising is as old as history existing ever since man had a surplus of a product. What it wasn't needed by one, he then traded the unwanted with the wanted.


At first advertising was verbal, people housed throughout towns, using their goods to sell to neighbors or anyone in earshot. Now the advertising voice concentrates a few thousand miles in the air. Soon visual advertising came into play and for those who were unable to read, symbols were used. A red and white striped barber's pole is a great example of this.

Another example is the historic sign (right), seen in Rome, used by Roman merchants. It was advertising for hams sold in a butcher's shop.

During the 15th century, Johann Gutenberg developed movable type which enabled advertising to reach a far greater distance and faster. Ever since, advertising has been used to entice people to buy items, go places and do things that could only make their lives better or happier.

Advertising has grown with the country and helped establish its marketing system. Major developments were occurring such as transportation, popular inventions and manufacturing.

The American industrial revolution, a growing middle class, mass production, expanded transportation and high speed printing presses combined to pave the way for modern advertising and advertising.



click on image for more detail

Advertising Design

### Table of Contents

1. Introduction Frame
2. What is it?
3. Where is it seen?
4. Where is it done?
5. History
6. Visual research
7. Glossary



click on image for more detail

Print Media

### Print Media

click on text to return to the table of contents

The are generally two forms of media. National and local media. National media implies the ability to have information reach the whole country at about the same time. Time magazine is an example of this.

Local media reaches a smaller area. The benefits in this is that a company, such as car dealerships, can advertise their vehicles locally over to reach the same products as being sold around the same time. Information such as where the dealer is located would be included and any sales they might be having at the present time. Car dealers around the nation might not have the same needs for specific sales at the time. Another example is Sears in New York may be having a sale on snow shovels the day after a major storm. Advertising nationally would make an sense since Florida's weather is sunny and beautiful.



click on image for more detail

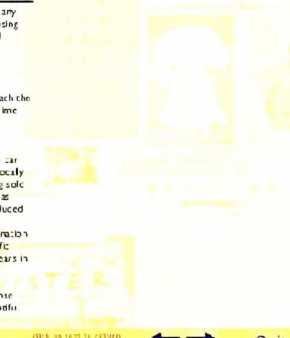
Print Media

### What is it?

Print media is a term used to refer to any form of information that is transformed using ink onto material that one is able to hold and read.

The are generally two forms of media. National and local media. National media implies the ability to have information reach the whole country at about the same time. Time magazine is an example of this.

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click on text to return to the table of contents

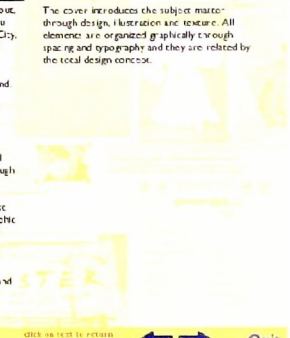
Print Media

### Where is it seen?

Print Media is seen all over, indoors and out, just as graphics and advertising design. If you were to walk down a street in New York City, you would witness many examples of visual print media, from buses, taxi, billboards, posters to people's clothing, shopping bags, even the trash blowing around on the ground.

Corporate identities are created for large companies or institutions who own disseminate their graphical material with a master plan. The designer not only creates a logo, they also have to consider where and how it will be applied. The design must be flexible enough to apply to future uses.

Books are diverse formats among the most personally rewarding opportunities for graphic designers because they provide a medium which encourages creativity. Books are at the most valued because of their permanence. They have been the major vehicle for the shaping of education, a record of history and the interchange of information.




click on text to return to the table of contents

Print Media

### Where is it done?

Print Media is created in design firms, advertising agencies, print shops, within corporate offices, pretty much all over and where anyone who has the desire to send a message across to a group of people in a form which can be delivered, handed out or posted.




click on text to return to the table of contents

Print Media

### Table of Contents

1. Introduction Frame
2. What is it?
3. Where is it seen?
4. Who is involved?
5. History
6. Ethics
7. Visual research
8. Glossary



click on image for more detail

Digital Imaging

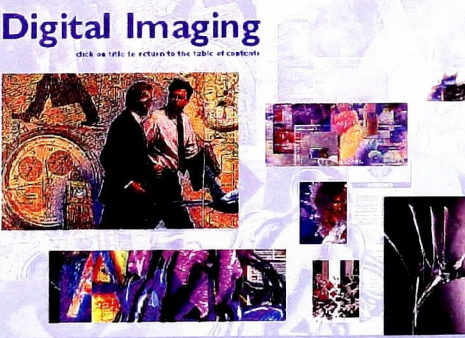
### Digital Imaging

click on text to return to the table of contents

In 1981 the introduction of the affordable Macintosh computer enabled designers and artists to create art work faster, easier and with more flexibility. By that we mean nothing is ever "finished". Paint never dries, colors never fade and if you happen to change your mind about something, you will be able to go back and make changes, tomorrow or 10 years from now.

Macintosh computers are not only easy to use but the graphical user interface is also visually logical with intuitive ways of organizing files and commands. These computers mimic familiar tools such as folders, trash cans, hands, paint brushes, just to name a few.

Digital imaging enables an artist to have more control over their pictures. The ability to make mistakes and correct them gives the user the confidence to explore possibilities not available to traditional techniques.



click on image for more detail

Digital Imaging

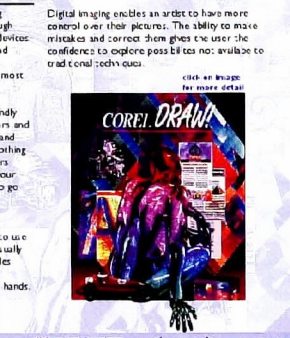
### What is it?

Digital imaging is the act of producing, edited, enhanced or altered images through the use of a computer and other digital devices. Digital imaging has created a profound and permanent change in the very nature of photography and illustration, impacting a most all professional in the visual arts field.

In 1981 the introduction of the affordable Macintosh computer enabled designers and artists to create art work faster, easier and with more flexibility. By that we mean nothing is ever "finished". Paint never dries, colors never fade and if you happen to change your mind about something, you will be able to go back and make changes, tomorrow or 10 years from now.

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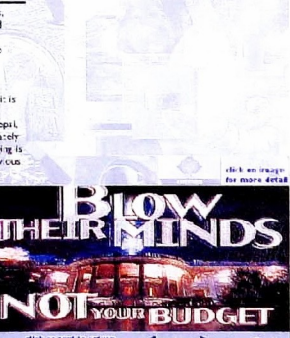
click on text to return to the table of contents

Digital Imaging

### Where is it seen?

Digital imaging is seen anywhere artists, designers, art directors, digital imagers and others in the visual communication fields decide to use the technology to enhance or alter their images.

The most widely seen digital imaging is on television. In an hour's worth of television it is very likely that you will see at least one advertisement that utilize digital imaging. Pepsi, Coke and Budweiser are a few that immediately come to mind. Sometimes the digital imaging is used subtly while at others it is quite obvious.



click on text to return to the table of contents

Digital Imaging


### Who is involved?

Digital imaging is a process available to anyone who has the capability to use a computer and other electronic devices to edit, enhance or alter their images.

Graphic designers, advertising designers, art directors, printers, even students, business men and women, and children are capable in the last few years computers have been implemented in many schools environments, giving young people the opportunity to enter the business early on in their educational careers, enabling them to be prepared for the future, where it is quickly becoming necessary skill.

Photographers are using this tool even more now a days as opposed to the traditional darkroom techniques, especially for monochroming images consisting of many layers and applying unique filter effects.

Graphic designers and advertising designers utilize the techniques of digital imaging for many reasons. One primary reason is the ability to incorporate type and image all at once in a design piece.



click on text to return to the table of contents

Digital Imaging

# Appendix I I

## Application Frames *continued*


read from left to right

### History

Digital imaging's history begins when Apple Computer introduced a new line of computers called Macintosh. Mac for short. This computer was the first to enable a user to readily become familiar with the same context which makes a office or desktop. This "desktop" incorporates objects such as a trash can, folders, filing cabinets and other small icons for navigating windows and documents in a pointing program, such as Acrobat Photoshop, brushes, pencils, magnifying glasses and other tools provide intuitive use.

Unlike other computers that preceded the Mac, the major advantage it is its graphic capabilities. This Mac is a WYSIWYG (What You See is What You Get). The Mac's computer screen is, in effect, a blank canvas for you to do whatever you please, whatever you apply to this canvas is what you are going to get.

Many other manufacturers are now selling computers who's similar desktop business just remember Mac was the first.



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click on text to return to the table of contents

Quit

### Ethics

The topic of Digital Imaging raises many questions concerning fact or fantasy, image manipulation on the computer has now made it much more difficult for even the experts to determine an image's authenticity.


Our society is much more aware of special effects today than 50 years ago. Consider sci-fi or horror films which use computers to create supposedly real environments or create special effects. We still don't know but we know it's not real and computer generated, although on a subliminal level we can be effected by what we see.

There is a fine line that defines and determines the ethics of image manipulation which has something to do with the circumstances of how the picture is to be used by whom, where, and for what purpose.

There seems to be a rule of believability that governs image manipulation matters. When placing an object in a place where the general public knows that is not on, for example, placing the pyramids in Central Park for a certain effect, it's acceptable. When it comes to placing an innocent person at the scene of a crime with a weapon in his or hand, his or her face the line, becoming unacceptable.

Purpose and impact are two more questions. An image that intrigues or harms the public for malevolent reasons is unethical, but when the artist didn't intend to lie is that unethical also?

Does the viewer have the right to know that the image has been manipulated?



click on image for viewer default

click on text to return to the table of contents

Quit

### Glossary

**Account executive**  
An advertising agency employee primarily responsible for maintaining liaison with assigned agency clients, and for development and control of advertising plans for clients.

**Advertising**  
As defined by the Dictionary of Advertising: 1) a marketing process which uses advertising sources directed to preposits as a means of meeting marketing objectives as a marketing tool advertising is uniquely able to reliably and quickly deliver consistent messages efficiently. 2) a commercial profession or craft which seeks to develop and place advertisement in the most productive, efficient manner possible.

**Advertising agency**  
An independent, non-credit service organization that contracts with advertisers to develop and manage their advertising, for a fee or for a commission on the advertiser's spending.

**Art director**  
An employee of an advertising agency or similar organization who is responsible for developing the general design and supervising the final artwork and typography of advertisements.

**Billboards**  
The largest graphic form and is very similar to a poster. Subject to extreme variables of lighting as well as environmental distractions. Simplicity is the key. The copy must be brief, large and legible.

**Books**  
are direct format, among the most personally rewarding opportunities for graphic designers because their format is not fixed which may encourage creativity. Books are the most valuable because of their permanence. They have been the major vehicle for the shaping of education, recording of history, the interchange of information. The cover introduces the subject matter through design illustration and texture. All elements are organized primarily through spacing and typography and they are reinforced by icon design concepts.

click on text to return to the table of contents

Quit

### Glossary cont.

**Book jackets and cd covers**  
three dimensional products similar to posters. They rely on the call attention to their content or entice them in some compelling way to induce the observers to examine the product further.

**Campaigns**  
projects that have more than one component or are communicated through more than one medium.

**Communication**  
a giving or exchanging of information, signs or messages by talk, gestures, writing, etc.

**Corporate Identities**  
created for a particular company or institution who coordinate their graphics material with a master plan. The designer not only creates a logo they also have to consider where and how it will be applied. The design must be flexible enough to apply to future uses.

**Creative Departments**  
consist of writers, artists, television producers, print mechanics, and coordinators.

**Creative Director**  
an advertising agency employee responsible for managing the operations and personnel of a creative group or department.

**Designer**  
producer of the overall visual concept. Converts the problem into a form to be prepared to the client. Actually draws or lays out a prototype. Works with the specifics of type style, paper, colors, and so on. His or she often oversees the activities of the art director and various plans, conceptualizes and administers projects from start to finish.

**Direct Mail**  
advertising used, letters and colorful brochures mailed to people's homes. The letters or brochures may ask people to do something, give money to charity, or attend a special sale.

click on text to return to the table of contents

Quit

### Glossary cont.

**Film**  
the shape, outline, or configuration of anything structure is apart from color, material, etc.

**Illustrator**  
creates the images that need to be collected or painted. Also, may produce the preliminary "comp" or sketches needed by the art director or designer. May be specialized by product machines, dolls, clothing, story boards, or technique, air-brush, pen and ink, collage.

**Logo**  
letters or word formed into distinctive and unified form. Can often provide the basis for a company trademark and an corporate identity.

**Magazines**  
are produced for special interests which consist of editorial content, stories, reports, reviews, articles, departmental photos, illustrations, diagrams and more, covering matter related to the type of reader the publication serves.

**Newspapers**  
serve an immediate and an historical society that come from its basic function. Popular because of the economy of its production, paper's strength in printing, a fast binding is simple and ready to distribute. Not off to press. Exceptional skill in typographic layout and design is required. Newspapers serve a general mixture of readers, with great variations of age, educational level, income, interests and lifestyles.

**Outdoor advertising**  
is often mounted near the windows and doors of hotels and buildings. They are sometimes painted on buildings. By all means of electric light, flash on and off at night in the downtown parts of cities.

**Posters**  
announce events, often placed in a public area, such which its prospective audience walks or travels. They need to be direct and simple. Any needed information should be brief and very legible.

click on text to return to the table of contents

Quit

### Glossary cont.

**Production Artist**  
prepares the mechanical material necessary to reproduce the product. Follows the creative activity with the technical material needed by the printer or manufacturer or someone has to produce the project. This production people need to know about typefaces, cuts, costs, readability, personality of product, printing, engraving, imaging and desktop publishing.

**Radio and Television**  
advertising probably reaches the biggest audience. The amount of television advertising increased with the arrival of cable and satellite services. A special tele ad on program may be viewed by 100 million or more persons. Because television ads, especially at peak viewing times, are so expensive, not all companies can afford to advertise on television.

**WYSIWYG (What you see is what you get)**  
This term refers to the ability to view text and graphics on screen the same as they will appear when printed.

click on text to return to the table of contents

Quit

### Table of Contents

1. What is it?
  - a. Addition
  - b. Exaggeration
  - c. Substitution
  - d. Subtraction
2. Types of Magazines
3. Magazines Aimed at
4. Audiences Aimed at
5. Subject Matter
6. Primary Manipulation

click on text to return to the table of contents

Quit

### What is it?

The table is a collection of magazine advertisements which include primarily images or typography manipulated by digital imaging.

The categories of addition, exaggeration, substitution and subtraction were used to classify the scope of techniques utilized in communicating messages within the advertisements.



click on text to return to the example table of contents

Quit

### Addition

introducing a new element with existing elements to enhance meaning.




click on image for viewer menu and information

click on text to return to the example table of contents

Quit

### Exaggeration

overemphasizing characteristics of an existing element to heighten meaning.




click on image for viewer menu and information

click on text to return to the example table of contents

Quit

### Substitution

introducing a new element in place of an existing one to alter the meaning.




click on image for viewer menu and information

click on text to return to the example table of contents

Quit

### Subtraction

removing an existing element to interrupt previous meaning.



click on image for viewer menu and information

click on text to return to the example table of contents

Quit

### Types of Magazines

bric-a-brac  
business  
children  
comics  
fashion / lifestyle  
fitness / health  
home / garden  
news  
photographic  
science  
sports  
women's

click on text to return to the example table of contents

Quit

### Magazines Aimed at

Architectural Digest  
Color Publishing  
Communication Arts  
Cosmopolitan  
Digital Imaging  
Digital Music  
Discover  
Health  
The New Yorker  
People Weekly  
Photo / Design  
Pire  
Publish  
Science Fiction Age  
Sports Illustrated  
The Web  
Wired

click on text to return to the example table of contents

Quit

### Audiences Aimed at

children  
male  
female  
both male and female

click on text to return to the example table of contents

Quit

**Appendix II**  
**Application Frames** *continued*  
 read from left to right

**Subject Matter**

- alcohol
- animation
- applications
- computer services
- events
- editorial
- events - upcoming
- general products
- personal equipment
- travel
- video - computer games
- web sites

Visual Examples - all topics    [click on text to return to the example table of contents](#)    [Quit](#)


**Primary Manipulation**

- imagery
- typography

Visual Examples - all topics    [click on text to return to the example table of contents](#)    [Quit](#)


Photograph of New York City's Times Square  
 by Victor Stankovic, Jr.  
 date unknown

Graphic Design and Visual Communication  
 Jo Ann Casilda  
 page 2



[click on image to return to original image location](#)    [Quit](#)

Man Advertisement  
 Kleppner's Advertising Procedures  
 J. Thomas Russell, Glenn Verrill, W. Ronald Lane  
 Tenth Edition  
 Prentice-Hall, NJ, 1988  
 page 3




[click on image to return to original image location](#)    [Quit](#)

Cave painting from Lascaux,  
 c. 15,000-10,000 B.C.

A History of Graphic Design  
 Philip B. Meggs  
 page 5

Randall's placement and thinking are prehistoric people's lack of success recording their experiences.




[click on image to return to original image location](#)    [Quit](#)

Ovibach's Advertisement  
 Paul Rand, 1945

A History of Graphic Design  
 Philip B. Meggs  
 page 331


'A combination of elements: a graphic photograph, decorative drawing, and typography playfully combined into a unity. The image usually reinforces the headline.'



[click on image to return to original image location](#)    [Quit](#)


Revlon Advertisement  
 People weekly magazine  
 February 12, 1994  
 page 9

Often the use of sex appeal is apparent. Thin, beautiful women encourage others to think that they too will have the same appeal if they use this product.



[click on image to return to original image location](#)    [Quit](#)

GrFX Creative Imaging, Inc.  
 PhotoDesign magazine  
 March/April 1990  
 Issue 22  
 page 13




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Hasselblad Advertisement  
 PhotoDesign magazine  
 March/April 1990  
 Issue 22  
 page 17




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Disaronno Amaretto Advertisement  
 People weekly magazine  
 February 12, 1994  
 page 15



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Canon EOS1 Advertisement  
 PhotoDesign magazine  
 March/April 1990  
 Issue 22  
 page 34



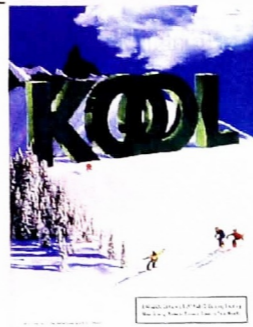
[click on image to return to original image location](#)    [Quit](#)

Pearl Drops Advertisement  
 Marie Claire Magazine  
 October 1995  
 page 61



[click on image to return to original image location](#)    [Quit](#)


Kool Cigarettes Advertisement  
 People weekly magazine  
 February 12, 1994  
 page 53



[click on image to return to original image location](#)    [Quit](#)

Farco 3.1 Advertisement  
 Rubish Magazine  
 August 1995  
 page 23

How Magazine  
 October 1995  
 inside cover




[click on image to return to original image location](#)    [Quit](#)

Seybold San Francisco Advertisment  
 Rubish Magazine  
 August 1995  
 page 80

Fre Magazine  
 July/August 1995  
 Volume 7, Number 1  
 page 9


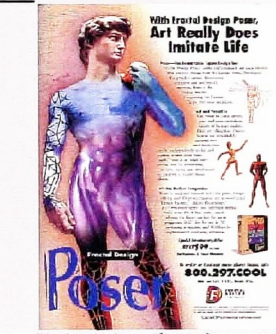


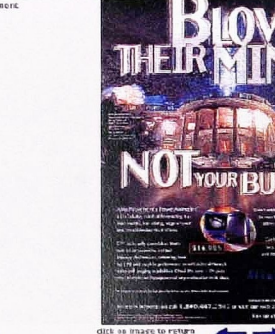






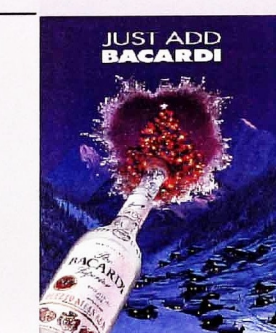
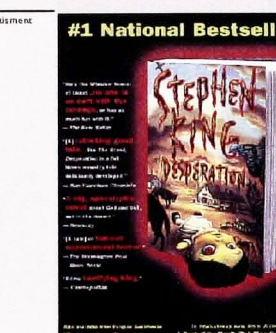


Digital Imaging Magazine  
 July/August 1995  
 page 32

Communication Arts Magazine  
 September/October 1995  
 page 233



[click on image to return to original image location](#)    [Quit](#)

**Appendix 11**  
**Application Frames** *continued*  
 read from left to right

<p>Summagraphics Advertisement          Publish Magazine          August 1995          page 29</p>		<p>Fractal Design Poser Advertisement          Publish Magazine          August 1995          page 57</p>		<p>Carlton Cigarettes Advertisement          Fopie weekly magazine          February 12, 1996          page 126</p>		<p>MicroProse Advertisement          Science Fiction Age Magazine          January 1997          page 80</p>		<p>Alisa Wavefront Advertisement          Digital Magic Magazine          March 1997          page 29</p>	
<p>Digital Magic table of contents page          Digital Magic Magazine          March 1997          page 1</p>		<p>Silicon Graphics Advertisement          Digital Magic Magazine          March 1997          page 7</p>		<p>Intergraph Computer System Advertisement          Colo Publishing Magazine          November/December 1995          page 5</p>		<p>Fuji FirstLook Advertisement          Colo Publishing Magazine          November/December 1995          page 10</p>		<p>Mitsubishi Electronics America Advertisement          Colo Publishing Magazine          November/December 1995          page 33</p>	
<p>Erica Nova Advertisement          Colo Publishing Magazine          November/December 1995          page 65</p>		<p>Bacardi Rum Advertisement          Sports Illustrated Magazine          December 16, 1995          page 18</p>		<p>Stephen King's Desperation Advertisement          Sports Illustrated Magazine          December 16, 1995          page 70</p>		<p>Drumbe Liqueur Advertisement          Sports Illustrated Magazine          December 16, 1995          page 92</p>		<p>Benson &amp; Hedges Cigarette Advertisement          Sports Illustrated Magazine          December 16, 1995          Back cover</p>	



**Appendix II**  
**Application Frames** *continued*  
 read from left to right

Kayler Advertisement  
 Architecture Digest Magazine  
 May 1990  
 page 67

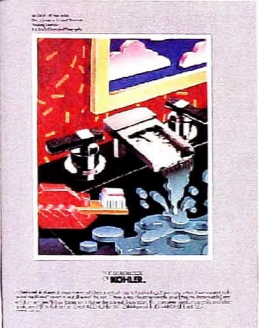


Image description    click on image to return to original image location    Quit

Pre Magazine Cover  
 Pre Magazine  
 July/August 1995  
 Volume 7, Number 4  
 cover

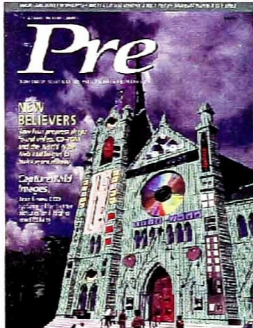


Image description    click on image to return to original image location    Quit

Electronic Imaging Systems Advertisement  
 Pre Magazine  
 July/August 1995  
 Volume 7, Number 4  
 page 5



Image description    click on image to return to original image location    Quit

PWE Advertisement  
 Pre Magazine  
 July/August 1995  
 Volume 7, Number 4  
 page 26

Digital Imaging Magazine  
 July/August 1995  
 page 42



Image description    click on image to return to original image location    Quit

Jet Advertisement  
 Pre Magazine  
 July/August 1995  
 Volume 7, Number 4  
 page 29




Image description    click on image to return to original image location    Quit

Corel Draw Advertisement  
 Pre Magazine  
 July/August 1995  
 Volume 7, Number 4  
 page 44




Image description    click on image to return to original image location    Quit

Inezq Advertisement  
 The Web Magazine  
 January 1997  
 page 23



Image description    click on image to return to original image location    Quit

Smartnet Advertisement  
 The Web Magazine  
 January 1997  
 page 58



Image description    click on image to return to original image location    Quit

Milker Imaging Advertisement  
 Digital Imaging Magazine  
 July/August 1995  
 page 47



Image description    click on image to return to original image location    Quit

SigmacMS Advertisement  
 Digital Imaging Magazine  
 July/August 1995  
 page 57

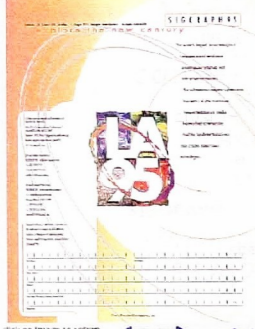


Image description    click on image to return to original image location    Quit

Graph Expo 95 Advertisement  
 Digital Imaging Magazine  
 July/August 1995  
 page 73




Image description    click on image to return to original image location    Quit

MSC Software Advertisement  
 Digital Imaging Magazine  
 July/August 1995  
 back cover




Image description    click on image to return to original image location    Quit

General Foods International Coffee Advertisement  
 Health Magazine  
 October 1996  
 page 4



Image description    click on image to return to original image location    Quit

QNC Advertisement  
 Health Magazine  
 October 1996  
 page 21



Image description    click on image to return to original image location    Quit

Toyota RAV4 Advertisement  
 O'roner Magazine  
 December 1996  
 page 53




Image description    click on image to return to original image location    Quit

**Appendix I I**  
**Application Frames** *continued*  
 read from left to right

Art of Design Miami  
 Communication Arts  
 September/October 1995  
 page 33

Image description    click on image to return to original image location    Quit

UK Paper Advertisement  
 Communication Arts  
 Advertising Annual 37  
 December 1996  
 page 239

Image description    click on image to return to original image location    Quit

VF Corporation Advertisement  
 for US Tennis Championships  
 Communication Arts  
 Advertising Annual 37  
 December 1996  
 page 72

Image description    click on image to return to original image location    Quit

Adobe Systems Advertisement  
 Communication Arts Magazine  
 September/October 1995  
 page 47

Image description    click on image to return to original image location    Quit

Wacom Advertisement  
 Communication Arts  
 September/October 1995  
 page 31

Image description    click on image to return to original image location    Quit

DayStar Advertisement  
 Communication Arts  
 September/October 1995  
 page 13

Image description    click on image to return to original image location    Quit

Ericad Advertisement  
 Communication Arts  
 September/October 1995  
 page 33

Image description    click on image to return to original image location    Quit

Inaali Film Graphic Design Advertisement  
 for Twister Movie  
 Communication Arts Magazine  
 Advertising Annual 37  
 December 1996  
 page 98

Image description    click on image to return to original image location    Quit

Ministry of Forests Poster  
 Communication Arts  
 Advertising Annual 37  
 December 1996  
 page 120

Image description    click on image to return to original image location    Quit

Digital Stock Advertisement  
 Communication Arts  
 Advertising Annual 37  
 December 1996  
 page 245

Image description    click on image to return to original image location    Quit

Delta Air Lines Advertisement  
 The New Yorker Magazine  
 February 28, 1994  
 page 2-3

Image description    click on image to return to original image location    Quit

Absolute Advertisement  
 Architectural Digest Magazine  
 May 1996  
 page 135

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Exabyte Technologies Advertisement  
 Wired Magazine  
 June 1995  
 page 158

Image description    click on image to return to original image location    Quit

Absolute Advertisement  
 Architectural Digest Magazine  
 May 1996  
 page 135

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For Color, Inc. 'Color & Dig' Print Cartridge  
 The Best in Advertising  
 1994 - 1995 edition  
 page 51

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**Appendix II**  
**Application Frames** *continued*  
 read from left to right

Basel Film Advertisement  
 Caspian Magazine  
 May 1994  
 page 179




Image description

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Quit

Yahoo Home Page  
 Search Engine  
 World Wide Web Page  
 www.yahoo.com

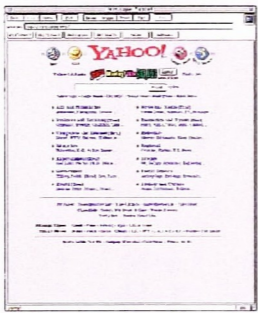


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Peppi Television Advertisement  
 Communication Arts  
 Advertising Annual 37  
 December 1994  
 page 165




Image description

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Quit

Children's Hospital Advertisement  
 Communication Arts  
 Advertising Annual 37  
 December 1994  
 page 64




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Quit

Magazines




Image description

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Quit

Casibg Design  
 Takahama New York  
 Communication Arts  
 Design Annual 36  
 November 1995  
 page 132



Image description

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Quit

Package Design  
 Digital Equipment Corporation  
 Communication Arts  
 Design Annual 36  
 November 1995  
 page 61



Image description

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Quit

Aurica Report  
 Wheeler-Decca Technologies Inc.  
 Communication Arts  
 Design Annual 36  
 November 1995  
 page 12




Image description

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Quit

Corporate Design  
 Capons Rodriguez Chiken  
 Communication Arts  
 Design Annual 36  
 November 1995  
 page 70




Image description

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Quit

# Appendix 12a

## Sample Evaluation Form

The Impact of Digital Imaging on Visual Communication  
Holly C. Coulter

Thesis Project Evaluation

name: \_\_\_\_\_

I am a student in  
 Graphic Design  
 Other \_\_\_\_\_

Please circle the mark you feel is most accurate in answering each question below.

1. Overall this Thesis Project was  
interesting |-----| boring
2. I thought the Thesis Project was  
useful |-----| waste of time
3. After experiencing this project, I had learned  
something |-----| nothing
4. Navigation through this Thesis Project was  
easy |-----| difficult  
clear |-----| confusing
5. The amount of information was  
sufficient |-----| insufficient
6. The organization of information was  
logical |-----| illogical
7. Visually this Thesis Project was  
pleasing |-----| not so pleasing
8. In general, the screen sequences were  
clear |-----| confusing
9. The inclusion of the overall organizational Map was  
helpful |-----| not helpful
10. The image examples used were  
relevant |-----| irrelevant  
stimulating |-----| boring
11. The color coding of the different sections was  
helpful |-----| not helpful
12. The overall screen designs were  
interesting |-----| boring
13. The explanations in the different sections were  
useful |-----| not useful
14. The Help page was  
helpful |-----| not helpful

Additional Comments / Suggestions:

## Appendix 12b Evaluation Results

Graph to show each students response  
to questions in relation to one another

**Student Responses**

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Question Number 1	2	3	3	5	5	2	3	4	4	4	4	3	6	4	2	5	7
2	1	1	2	6	4	2	3	5	4	6	4	2	4	5	3	5	5
3	2	3	4	5	-	4	1	4	3	6	7	2	4	5	2	-	5
4a	1	1	1	8	7	6	5	3	7	8	3	2	3	7	2	8	7
4b	1	1	1	8	-	6	4	7	6	7	3	1	3	7	2	8	2
5	1	1	2	3	3	2	1	1	-	6	6	1	3	4	2	1	5
6	1	1	1	8	6	5	3	1	1	6	3	1	3	6	2	-	2
7	1	2	3	3	6	3	1	3	2	5	3	1	3	5	1	1	5
8	1	1	1	6	6	2	2	1	3	7	3	2	3	7	1	5	1
9	1	1	1	3	9	-	3	7	2	6	3	1	2	6	1	5	4
10a	1	2	3	3	1	2	1	2	1	5	3	1	4	1	2	1	1
10b	2	1	2	4	-	2	2	4	2	5	3	1	5	1	2	1	2
11	1	5	1	7	3	2	3	7	2	6	2	1	2	4	1	-	5
12	1	1	4	3	5	2	3	4	3	4	2	1	3	4	2	3	3
13	1	2	2	5	2	3	2	2	1	6	4	1	5	1	2	2	1
14	1	1	1	6	1	1	1	2	2	6	3	1	3	3	2	4	2

Graph to determine how many similar or  
different answers were given for each question

**Answers from 1 to 10**

1's 2's 3's 4's 5's 6's 7's 8's 9's 10's

Question Number	1	2	3	4	5	6	7	8	9	10
1		3	4	4	3	1	1			
2	2	3	2	3	4	2				
3	1	3	2	3	3	1	1			
4a	3	2	3	1	1	4	3			
4b	4	2	2	1		2	3	2		
5	6	3	3	1	1	2				
6	6	2	3		1	3		1		
7	5	2	6		3	1				
8	6	3	3		1	2	2			
9	5	2	3	1	1	2	1		1	
10a	8	4	3	1	1					
10b	4	7	1	2	2					
11	4	4	2	1	2	1	2			
12	3	3	6	4	1					
13	5	7	1	1	2	1				
14	7	4	3	1		2				

# **The Impact of Digital Imaging on Visual Communication**

