The Anatomy of Information Design

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Date: May 22, 1997

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Date: June 8, 1997

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Date: May 22, 1997
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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 Anatomy of Information Design

by Young-Kook Kim

May 22, 1997
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Thesis Project Definition

Introduction

A sub-discipline of Graphic Design, Information Design addresses the ways in which audiences receive and respond to messages transmitted in a variety of classifications, including sign systems, charts, tables, maps, explanatory panels, etc.

Today's fast-paced international commerce and travel and the massive relocations of many racial and ethnic groups require increasingly more consistent trans-cultural forms of communication. This thesis project responds to the problem: How do you teach college level design students the visual components and categories used in Information Design for the purpose of communicating effectively across language and cultural barriers? One solution to the problem was the creation of a basic educational publication for those who are learning about Information Design. The book exists as a study guide titled The Anatomy of Information Design, which will be used in RIT's new 20th Century Information Design class, an interdisciplinary course providing an historical, definitive view of Information Design.

In the West, during the latter part of the nineteenth century – and closely linked to the Industrial Revolution – the study and application of Information Design began to evolve. Now, due to the spread of computer technology, the industrialized nations' economic bases have shifted and rely increasingly on the gathering, packaging, and selling of information. Furthermore, increasing globalization brings together a vast number of verbal language discrepancies. Today, more than ever, visual language has become critical to the transmission and reception of ideas and data.

To achieve the goal of producing The Anatomy of Information Design study guide, the following objectives were set:

- to gather and analyze historical and theoretical texts on Information Design;
- to synthesize and define the components and the categories of Information Design based on the aforementioned literature searches;
- to create a matrix for organizing Information Design based on the synthesis of its categories and components;
- to create a study guide that helps students understand Information Design through a number of examples and definitions, including the matrix;
- to evaluate the study guide through the use of a design evaluation form in the college classroom;
- to refine the study guide based on student feedback;
Course Experience

In the Spring 1996 Information Design class, Professor Deborah Beardslee offered the opportunity to do further research on Information Design. Previously, I had only a general interest in this topic. Professor Beardslee's course, however, inspired me to undertake this thesis project.

Team Involvement

In September 1996, my thesis plan for this project was submitted to Professor R. Roger Remington. Coincidentally, he was developing a new distance learning course titled 20th Century Information Design (see Appendix C 1). He supported the thesis plan and challenged me with the development and design of a course module that presents fundamental design categories and components for the students in his new course (see Appendix C 2). As a result of collaboration with faculty, students, and experts in related fields, the first iteration of The Anatomy of Information Design was developed (see Appendix C 3).
Research and Analysis

Personal Experience

As a foreigner driving in America, I have experienced the consequences of different forms of information communication. When I tried to find certain places and follow directions in Rochester, NY, well-organized traffic sign systems and maps played important roles as travel guides. In contrast, it was very difficult to travel in Boston, Massachusetts, because of complicated and incorrect information systems.

As a result of that experience, I considered the importance of visual communication language in terms of visual language, sign systems, symbols, maps etc. I asked myself, 'How does the conveyance of this information affect the public and society? How can the public and society function more efficiently via visual information communication?' My more immediate concern involved the transmission of Information Design knowledge to students and how those students might themselves address these questions.

Research

Initially, two research methods were employed: traditional literature searches and web site research. Gathering the material for the project's content involved close readings of these texts and analysis of visual materials. Over one hundred books, professional journals, and general-readership magazines were consulted. Over fifty web sites were studied and are listed in the bibliography (see Appendix B 3).

After this research was accomplished, it became clear that the verbal language used to describe visual images is fairly consistent even though the terms may vary. The six categories and ten components that comprise The Anatomy of Information Design matrix were culled from these texts. In cases where authors used different words to refer to the same concept, this researcher chose the most connotative terms to include on the matrix.

As the matrix (which determined the content of the study guide) was developed, all graphic materials gathered were tested against the matrix. Each cell of the matrix was then filled with the strongest example of the appropriate component and category characteristics. This matrix structure and testing exercise provides students with the tools for classifying Information Design examples using these categories and components.

At the end of the project, an analysis of a draft version of the study guide was undertaken using student assessments for the purpose of refining its content and layout.
Representative Books

Peter Wildbur's Information Graphics presents a number of previously separate areas of Information Design using international examples. Information Graphics's section titles formed the basis for the matrix categories. These categories were then revised following additional critique and editing by committee members. These categories were proposed as a functional vocabulary of the different forms of Information Design.

Envisioning Information, by Edward R. Tufte, includes a variety of information design examples suggesting an arrangement of examples by category. Moreover, Tufte's classifications were illustrated by various historical examples.

Representative Articles

Information Design Journal critically presents the current information environment and existing problems through in-depth articles written for design professionals. Other reference materials are listed in the Bibliography (see Appendix B.3).

Representative Theories

Several design theories – Semiotic Theory, Perceptual Theory, Visual Rhetoric, Systems Theory – are closely related to Information Design (see page 9, 19). Among many theories, the Communication Theory structure can also apply to information communication. It establishes the relationship between transmitter and receiver.

Communication Theory

The first model of the communication process was produced by Claude Shannon and Warren Weaver in 1949. These two engineers originated their theories from working with mechanical communication processes but were quick to apply their model to the field of human systems.

Their model of an informative source encoding a message, which is then transmitted along a channel to a receiver, who then decodes the message and reacts in some way, has provided the basis for many subsequent models. Nevertheless, it does not show the important effects that feedback and the cultural context have on all the stages in the process, especially at the source and destination.
A revised diagram might show the overall social context and the sub-cultures at the source and receiving ends. For example, a red road sign in the shape of an octagon is recognized in a number of sub-cultures as a stop sign, even though the word "stop" is written in different languages. Without a shared experience, such as the red octagonal sign, in these sub-cultures, communication may not occur.
The Information Design field includes a variety of communication vehicles such as signage, charts, tables, maps, and explanatory panels. The intention of *The Anatomy of Information Design*, based on the research that preceded the writing and design of the study guide and matrix, is to reveal and explain in simple visual and verbal terms the characteristics that are found in effective visual communication.

The essential methods of this process included gathering and analyzing many examples. In the classification phase, the examples were organized on *The Anatomy of Information Design* matrix following an evolving attempt to define the categories. This matrix was used as a research tool.

The project committee developed and/or approved pre-existing 'simple visual and verbal terms' for the study guide based on research materials. The functional relationships of the components and categories for the matrix were also assessed and/or revised in those meetings, as were the design theories to be included in the guide. Sometimes, the articulation of elegant (simple and clear) definitions and the identification of appropriate illustrations and precise theories proved confusing, spurring debate among the development team members.

Precise statements of design theory (including Semiotic Theory, Perceptual Theory, Visual Rhetoric, and so on) were located in order to establish meaningful connections and make the matrix and evaluation worksheet more useful. Focusing on the Semiotic Theory and applying it to the evaluation worksheet proved more complex because students may have difficulty understanding the terms used. Defining and arranging the terms under components and categories on the matrix proved less provocative as these elements have been long-established in the general practice of design.
General schedule

The course development team consisting of Professor R. Roger Remington, Dr. Richard Fasse, Sonny Stowe, Manager of Educational Technology Center, Cliff Commanday, RIT graduate student in Graphic Design, and Young-kook Kim met every Wednesday during the academic year. In these meetings the direction of the new course, 20th Century Information Design, and its modules was established. From these meetings a relationship between design and allied fields emerged, which forms the basis of the collaborative model (see Appendix A 4).

A collaborative model for the design of information

Shaping effective messages requires a wide range of professional competencies for design, development, implementation and distribution. Shown below is a map of key strategic disciplines involved in the process of developing information design applications and their collaborative potential.
Fall 1996

The thesis proposal was submitted. A planning report was developed for the thesis project in the Project Development and Evaluation class (see Appendix A 2).

Winter 1996-97

1st committee meeting objectives

- To consider pioneering and contemporary works through the illustrations used in the Information Design matrix.
- To order components simply and clearly.
- To order components from simple to complex.
- To order components to show a comparison between basic visual components and design principles.
- To develop different kinds of matrices.
- To use the matrix as a key research tool.
- To identify the theories most related to Information Design.
- To evaluate project work at both intermediate and final stages.
- To gather a group of definitions about Information Design.

2nd committee meeting objectives

- To revise evaluation worksheet in structure and definition.
- To refine prototype study guide content ordering.
- To discuss thesis exhibition plan and the development of the explanation panels and spread pages of study guide.
- To develop a collaborative teamwork model.

Information Design theories and resources were provided by Dr. Richard Zakia.

Four interrelated theories were selected for the study guide: Semiotic Theory, Perceptual Theory, Visual Rhetoric, and Systems Theory.
Theory | Definition
--- | ---
Semiotic Theory | A theory which addresses sign processes in society and serves as a means for improving activities pertinent to human expression, communication and signification. Also known as Sign Theory.
Perceptual Theory | Visual structures can be organized and systematically manipulated using the Gestalt Principles that can influence the way a viewer perceives them.
Visual Rhetoric | Rhetoric is a vocabulary which describes the effective, persuasive use of speech. Invented by the ancient Greeks, rhetoric is the oldest theory of language in the West. It is always directed towards practice; it describes the living, social function of language, not its abstract grammar. Rhetoric is theoretical and practical, a tool for describing existing statements and for designing new ones.
Systems Theory | Whole systems theory comes from systems analysis and is based on these principles:
1) The boundaries of the project must be established.
2) The whole consists of parts but is more than the sum of the parts.
3) The project is a dynamic, open system, and anticipates and will provide for using new inputs in the future.

Several versions of the matrix were developed considering the relationships among these theories. An evaluation worksheet was then created as a tool for evaluating Information Design examples selected from a matrix cell or from other research materials (see Appendix B 3).

The study guide's content and application were determined early in the development process, as was the inclusion of the collaborative model suggested by Professor Bruce Ian Meader. This model is important to the study guide's content because it clearly shows the student the integration of design and allied fields. As the field of design and society itself become more complex, students must recognize the importance of developing a number of professional relationship in various fields (see Appendix A 4). This collaborative model was refined following feedback by Professor R. Roger Remington.
Professor Deborah Beardslee suggested gathering definitions of Information Design from the International Institute for Information Design in Vienna, Austria.

Spring 1997

The Anatomy of Information Design project presentation, matrix, and study guide test version were presented in Professor Roger Remington's junior year Information Design class. The large format matrix, an overhead projection, and a thirty minute lecture were presented. After the presentation, Professor R. Roger Remington provided the students with additional comments on this project. The anatomy module continued to be used throughout the 1997 Spring Quarter. The test version of the study guide has been used by Professor R. Roger Remington's junior year Information Design class.

The feedback provided by the junior year Information Design class produced two major study guide formatting changes:

1) the paper size was changed from 8.5 X 11" to 8 X 8"
2) the printing of the pages was changed from single-sided to double-sided. Additionally, some minor changes were made to the matrix's terminology for clarity purposes.
Development

Development of the Matrix

Through research, many examples of Information Design were gathered and were included in the content of this thesis project. The matrix provided an effective way to organize and present the basic components and categories in the study guide.

Each cell of the matrix contains an image or images that illustrate the meeting points of the categories and the components. A large format of the matrix was made for a presentation to committee members and to junior level students at RIT in the 1997 Spring Quarter. After the presentation, the matrix was modified and reduced to fit in the study guide. Some cell illustrations were replaced when better examples were found. The first idea for the matrix was to compare strong and weak design examples, but this idea required a larger, more complex matrix. Thus, the matrix was developed using only the most representative visual images.

The first version of the matrix had six categories and more than fifteen components of structural elements (see page 12).

Six categories –
- Alphanumeric
- Pictagrammatic
- Product Interface
- Diagrammatic
- Spatial/Cartographic
- Informative/Explanatory

Fifteen components –
- Line/Rule
- Typography
- Grid
- Layout
- Color
- Symbols
- Shape
- Texture
- Audio/Sound
- Photo
- Proportion
- Composition
- Format
- Rhythm
- Space
- System
- Motion Graphics/Kinetic
- Forms

These categories and components were revised using the committee's suggestions. The first version of the matrix included some overlapping terms from graphic design, such as Layout and Format. Also, because the design principles (Proportion, Composition, Format, Rhythm, Space, System) originally included as components are much broader in scope than
the design elements (Line/Rules, Typography, Grid, Layout, Color, Symbols, Shape, Texture, Motion Graphics/Kinetic forms, Audio/Sound, Photography), they were removed from the matrix. The components were then re-ordered. Lastly, the terminology of categories was not parallel. For example, Pictogrammatic clearly involves pictorial examples but the term Informative/Explanatory has two different purposes. Thus, the category Hybrids was created to encompass the Explanatory, Informative, and Instructional categories. The final version of the matrix has six categories and ten components (see page 13).

Matrix Version 1

Anatomy of Information Design Structural Matrix
Matrix Version 2

Anatomy of Information Design Structural Matrix

Categories of Information Design

<table>
<thead>
<tr>
<th>Components</th>
<th>Alphanumeric</th>
<th>Pictogrammatic</th>
<th>Product Interface</th>
<th>Diagrammatic</th>
<th>Spatial/ Cartographic</th>
<th>Informative/ Explanatory</th>
<th>Hybrids</th>
</tr>
</thead>
<tbody>
<tr>
<td>Line/Rules</td>
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<td></td>
<td></td>
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<tr>
<td>Typography</td>
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<tr>
<td>Organization System (Grid/Layout)</td>
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<td>Shape</td>
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<td>Texture</td>
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<td>Motion Graphics (Kinetic forms)</td>
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<tr>
<td>Audio/Sound</td>
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<tr>
<td>Photo/Imagery</td>
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</table>

Matrix Version 3/Final version

Anatomy of Information Design Matrix

Categories

<table>
<thead>
<tr>
<th>Components</th>
<th>Alphanumeric</th>
<th>Pictogrammatic</th>
<th>Product Interface</th>
<th>Diagrammatic</th>
<th>Spatial/ Cartographic</th>
<th>Informative/ Explanatory</th>
<th>Hybrids</th>
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</thead>
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<tr>
<td>Dot</td>
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<tr>
<td>Line/Rules</td>
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<tr>
<td>Shape</td>
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<tr>
<td>Texture/ Tone/Value</td>
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<tr>
<td>Spatial Organization System/ Grid</td>
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<td>Motion</td>
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</tbody>
</table>
Development of the Study Guide

Content

The study guide's content has three main parts - Information Design categories, components, and theories - as well as the definition of Information Design in the introduction, a collaborative model for the design of information, the evaluation worksheet, biographies, chronology, bibliography, glossary of terms, and The Anatomy of Information Design matrix.

Format

Initially, the format of the study guide was rectangular/horizontal 11 X 8.5". This format reflects the shape of the matrix and evaluation sheet. As a result of the first and second evaluations, the rectangular format was changed to an 8 X 8" square format. The square format allowed for economical printing on both sides of the pages. The design of the study guide uses a three-column grid, text and images. The typeface is Futura, and the book is coil bound. Images in the study guide are black and white, making publishing and reproduction more economical.

Typeface sizes are: heading 10pt bold; sub heading 10pt bold; text 8pt roman; and caption 6.5pt roman.

8.5 X 11" Format

8 X 8" Format
Development of Cover and Symbol

The study guide cover was designed using an altered London Underground map, a landmark in Information Design, by Henry C. Beck. Using this image illustrates the strong relationship between the cover image and title. The early designs for the cover are shown below.

The symbol on the study guide cover is based on the eight components of the matrix. The final symbol on the study guide is a texture/tone/value example (see page 16).

Cover Design Version 1

Cover Design Version 2

Cover Design Version 3

Cover Design Version 4/Final version
Symbol design based on eight components

Symbol design for cover/Final version
The evaluation worksheet is to be used by the student audience to assess the effectiveness of particular Information Design examples. This evaluation worksheet is based on semiotic theory. The diagram at the top of the worksheet shows the relationship between object, application, and audience – the three units of communication. The reader selects and analyzes an example for its meaning and content. Comments can be written in each block. (see page 18 and 19.)
This model provides an objective template for evaluating Information Design using a structure from Semiotic Theory.

### Interpretant Matrix Analysis

<table>
<thead>
<tr>
<th>Interpretant Matrix Analysis</th>
<th>Examples</th>
<th>Alphanumeric</th>
<th>Pictogrammatic</th>
<th>Product Interface</th>
<th>Diagrammatic</th>
<th>Spatial/Cartographic</th>
<th>Hybrids:</th>
</tr>
</thead>
<tbody>
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<td></td>
<td>Signified</td>
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<td>Iconic</td>
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<td>Signifiers</td>
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<tr>
<td>Symbolic</td>
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<tr>
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<td>Semantic</td>
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</tbody>
</table>

### Example Design Application

- Iconic
- Symbolic
- Convention
The model provides an objective template for evaluating Information Design using a structure from Semiotic Theory.

### Interpretant Matrix Analysis

<table>
<thead>
<tr>
<th>Signifiers</th>
<th>Examples</th>
<th>Alphanumeric</th>
<th>Pictogrammatic</th>
<th>Product Interface</th>
<th>Diagrammatic</th>
<th>Spatial/ Cartographic</th>
<th>Hybrids: Explanatory, Informative, Instructional</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Signified</strong></td>
<td>Signage means company.</td>
<td>PTT Telecom Company signage Bureau Mijksenaar</td>
<td>Deutches Fernsehen Anton Stankowski</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Iconic</strong></td>
<td>Viewer can recognize Building.</td>
<td></td>
<td></td>
<td>Brochure explains camera and its parts.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Indexic</strong></td>
<td>PTT logo indicates company.</td>
<td>Viewer can recognize Typeface and lines.</td>
<td>Organic lines show 'vibration' between initials D and F.</td>
<td></td>
<td>Every part points to camera.</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Symbolic</strong></td>
<td>PTT symbolizes company logo.</td>
<td>Logo symbolizes company name.</td>
<td>Product symbolizes product name</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Three Factors for Function and Use

<table>
<thead>
<tr>
<th>Syntactic</th>
<th>Semantic</th>
<th>Pragmatic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Strong type face PTT size is a hyperbole.</td>
<td>PTT logo is legible and clearly communicated.</td>
<td>PTT logo is an advertisement.</td>
</tr>
<tr>
<td>The two initials are communicated.</td>
<td>Organic lines suggest movement.</td>
<td>Logo is a symmetry form.</td>
</tr>
<tr>
<td>Images show an elaboration.</td>
<td>Camera and its parts show complexity.</td>
<td>Brochure is an explanatory advertisement.</td>
</tr>
</tbody>
</table>
Evaluation

The Anatomy of Information Design study guide was evaluated for content, organization, matrix effectiveness, and adequacy of the evaluation work sheet. Evaluation of the study guide proceeded in three phases: preliminary evaluation, intermediate evaluation, and retrospective evaluation.

Preliminary Evaluation

The preliminary evaluation was undertaken in a junior year Information Design class. Evaluation was performed twice: at the beginning of the quarter and during mid-quarter. Student feedback was used to refine the study guide and provided more critical analysis of the organization of material within the guide. (see Appendix A 6.)

Study Guide/Feedback Summary from Junior Year Information Design Class

- Presentation was informative to junior students.
- Study guide content was well structured.
- 8.5 X 11” one-sided format wasted paper.
- The terminology applied to the matrix was unclear.
- The content required re-ordering to make it more understandable.
- Adding definitions would be helpful to understanding Information Design.
- More components should be added to the matrix.
- Enlarged matrix images would be easier to decipher.
- Cover design and logo were well designed.

Intermediate Evaluation

Intermediate evaluation was held in the Bevier Gallery during the thesis exhibition. This evaluation included an informal discussion with an audience of professionals in the graphic design field as well as with non-graphic designers. Their feedback suggested the use of more popular terms to improve the communication of design concepts.
Another part of the intermediate evaluation involved a study guide feedback form completed by the same students in the junior year Information Design class. The students responded to a number of questions on a sliding scale from weak (1) to strong (6). The results are as follows:

<table>
<thead>
<tr>
<th>Question</th>
<th>Average response</th>
</tr>
</thead>
<tbody>
<tr>
<td>About Anatomy of Information Design Matrix</td>
<td></td>
</tr>
<tr>
<td>Can you read and understand the matrix?</td>
<td>4.1</td>
</tr>
<tr>
<td>Do the category headings communicate well?</td>
<td>5</td>
</tr>
<tr>
<td>Do the component headings communicate well?</td>
<td>5</td>
</tr>
<tr>
<td>About Evaluation Worksheet</td>
<td></td>
</tr>
<tr>
<td>Can you read and understand the diagram on evaluation worksheet?</td>
<td>4.6</td>
</tr>
<tr>
<td>Does this model help you to evaluate the examples?</td>
<td>4.8</td>
</tr>
</tbody>
</table>

(see Appendix C 5.)

Retrospective evaluation took place at the end of this thesis project (see page 24).
Implementation

A prototype of the study guide was handed out to the junior year Information Design class at RIT on March 20, 1997, during a presentation about this thesis project and matrix. The users' responses supported making a strong concept and logical ordering.

After the preliminary evaluation, changes were made to the study guide format and to the matrix. As discussed, the paper size was reduced and the pages were printed double-sided. Minor changes to the matrix included size adjustments, label positioning, and number of examples per cell. Changes to the study guide ordering were made in consultation with committee members. The collaborative model for Information Design was moved from the middle of the study guide closer to the beginning. The ordering of the components and the categories was inverted. The chronology and *The Anatomy of Information Design* matrix were moved from the beginning of the study guide to the end. This revised version was shown in the thesis exhibition.

After the thesis exhibition, the thesis project and the study guide were revised again based on the audience feedback and committee members' feedback. Minor stylistic changes were made to the study guide for purposes of clarity and emphasis. Also, some images were enlarged for easier viewer recognition. One image (the London Underground Map, by Henry C. Beck) was added to more clearly illustrate the Diagrammatic section. Due to this addition, other images were re-located, and one image (Egyptian pictograms) was removed from the Pictogrammatic section.
Dissemination

**Short-term Dissemination** Following dissemination of the prototype study guide and matrix to design students, the thesis project was exhibited in the third of three thesis shows in the Spring of 1997 at the Bevier Gallery, RIT.

The exhibit included an explanation panel, a matrix, a study guide, and six spreads from the study guide. The project summary explained to the general public background interests, project description, project goals, a definition of Information Design, and the research methodology diagram (see Appendix A 2).

*The Anatomy of Information Design* matrix showed many Information Design landmarks. The matrix facilitated the understanding of the interrelationship of basic categories and components in design.

**Long-term Dissemination** In the 1998 Fall Quarter, *The Anatomy of Information Design* study guide and matrix will be used in the new 20th Century Information Design course as a key course hand out. The distance learning course and study guide act as an introduction for prospective students who are interested in distance learning and Information Design. Students who register for the course will receive the study guide in their course packets.

The 20th Century Information Design course will be introduced on the RIT Online and World Wide Web. A new module for elements of Design Archive Online is being developed for 20th Century Information Design which will incorporate *The Anatomy of Information Design* as a module (see Appendix C 4).
Retrospective Evaluation

After the thesis show, the study guide's content and structure were revised based on the feedback from the audience and from thesis committee members.

Audience Feedback

During the exhibition, the chance to communicate with the public about Information Design provided useful feedback. For example, they suggested avoiding the use of scholarly terminology in the study guide, on the evaluation worksheet, and on The Anatomy of Information Design Matrix. Also, the public thought that the visual examples on the matrix in the study guide were too small in size and not easy to recognize. This significant problem was driven by page size and economical considerations. The solution would be to use a larger size page to create a fold out matrix page. The study guide now shows larger images that enable the viewer to recognize the examples in the category sections.

Committee Members Feedback

The primary suggestion from committee members was to replace some images on the matrix with examples of historical landmarks, such as Sweet catalog by Ladislav Sutnar, Isotype by Otto and Marie Neurath, and Fortune Magazine by Will Burtin. Another suggestion was to place emphasis on the designer's position within the collaborative model for Information Design. Committee members also recommended the use of parallel language structure and placement of terms on the diagram at the top of the evaluation worksheet so that it is more understandable.

The study guide will be updated continually, based on feedback from future student audiences.
Conclusion

More than ever, people worldwide are deluged with visual information which, to be effective and communicate clearly, requires the highest quality of Information Design. Consequently, Information Designers have become increasingly important, especially in societies that base their international economies on knowledge and data as commodities. These visual communicators work to make learning efficient and to convey concepts across cultural and language barriers thereby facilitating such things as travel and commerce via tools that include telecommunications and printed matter. Moreover, not only do Information Designers need to work in different cultural and linguistic environments, they also need to establish relationships with professionals in different, related fields.

To affect future generations of Information Designers, more educational tools, which themselves are the best examples of Information Design, need to be created. To that end, this thesis project was the development of the study guide *The Anatomy of Information Design*. It introduces the basic Information Design elements and their interrelationships, and gives students both the language and the theories of their future profession, as well as the means for evaluating their own designs and those of others.

I, myself, will put to good use in my own work the contents of the study guide and matrix. Also, I will rely upon the invaluable experiences of having researched my subject. Working with a team to create an instructional product economically and in a timely manner was also an important experience. And, as a matter of personal interest, I now have a knowledge of Western perspectives on design that will invariably expand the aesthetic sensibilities that I developed in my homeland of Korea.

As for the future of *The Anatomy of Information Design*, I hope that it continues to evolve and that it remains the guide for the 20th Century Information Design course. Perhaps, someday, it can benefit as a primer for students in Korea. It would be particularly helpful to those who plan to study Information Design in the United States.
Appendices

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Appendix A 1 Thesis Proposal

The Thesis Proposal explains this thesis project's purpose.
Thesis Proposal for the Master of Fine Arts Degree

College of Imaging Arts and Sciences
Rochester Institute of Technology

Title: The Anatomy of Information Design

Submitted by: Young Kook Kim  Date: September 18, 1996

Thesis Committee

Chief Adviser: R. Roger Remington
Associate Adviser: 1. Deborah Beardslee
2. Bruce Ian Meader

Thesis Committee Approval:

Date:

Approval, Department Chairperson:

Date:

Computer needs other than word processing:
Yes  No

Explain need of equipment:

Committee Approval:


I propose to study Information Design as a process of communication to the general public. The world has become complex, dynamic, and multidimensional, creating a new diversity of information categories within the visual communication field. Information Design, being concerned with the efficiency and function of messages, can affect the sensibility and actions of the audience to aid in the understanding of messages. Information Design should involve a suitable and well-developed concept to provide clarity of content.

This thesis will involve a study of the syntax of Information Design (typography, color, grid, layout, and image). This research will manifest itself as a module to support the course, Design History in Cyberspace: 20th Century Information Design, in development by Professor Roger Remington in cooperation with RIT Center for Digital Media and the Office of Distance Learning.
Appendix A 2 Planning Report

The Planning Report, developed in Fall 1996, outlines the basic structure of the project and includes the following: Situation Analysis; Project Description; Mission Statement; Goals, Objectives, Processes and Strategies; Research Methodology Diagram; and Time/Implementation Plan.
Situation Analysis

Our world has moved from the industrial age to the information age. Digital processing has rapidly promoted the measure of the quantity, diversity, and speed of delivery of information. The information revolution is characterized by two major changes: the availability of a computer and a population living in a new information environment. The diversity of this information environment requires improved study of the history of information design and communication between creators and audience use and preserve of language of visual communication.

Project Description

This project will be an interpretive study of the visual elements used in Information Design. I will create an instructional module for students. It will involve suitable components and well-developed visual vocabularies, providing through clear content the anatomy of information design and how it can affect the sensibility and actions of the audience to aid in the understanding of messages. This module, functional and educational, will be an integral part of R. Roger Remington’s new course, 20th Century Information Design. The Anatomy of Information Design module will enhance the learning opportunities for students in the class.
### Mission Statement

This project involves a study of the syntax of Information Design. It will be concerned with presenting essential information about the component part of Information Design to the audience. Knowledge of this content will allow the user to create more effective messages.

### Goal

<table>
<thead>
<tr>
<th>Goal</th>
<th>Objectives</th>
<th>Processes and Strategies</th>
</tr>
</thead>
<tbody>
<tr>
<td>To gather historical and theoretical data about the syntax of Information Design by doing <strong>research and analysis</strong> on this topic.</td>
<td>To identify and examine the component parts of Information Design.</td>
<td>1. To make a bibliography.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2. To do research about the Information Design syntax (Typography/image/layout/color).</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3. To recite and sort the historical information in Information Design.</td>
</tr>
<tr>
<td></td>
<td>To examine the history of Information Design.</td>
<td>1. To make a bibliography.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2. Gather graphic historical works.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3. To do research about quotes on Information Design.</td>
</tr>
<tr>
<td>To define the syntax of Information Design for better understanding to the user.</td>
<td>To examine the function of visual elements through resources.</td>
<td>1. Analyze and synthesize the functionality of visual elements.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2. To organize design elements into pragmatics.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3. To examine experimental design works.</td>
</tr>
<tr>
<td>Goal</td>
<td>Objectives</td>
<td>Processes and Strategies</td>
</tr>
<tr>
<td>----------------------------------------------------------------------</td>
<td>---------------------------------------------------------------------------</td>
<td>----------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>To create applications of Information Design which are appropriate to guide the user.</td>
<td>Enable the user to understand the components of Information Design.</td>
<td>1. To do research about graphic elements of creating resources.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2. To create a list of graphic elements and matrices systematically.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1. To make videotape lectures which suggest examples of Information Design (slide set).</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2. To create a guide book of Information Design vocabulary. (To include index, bibliography)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1. To develop graphic resources on the web pages (HTML).</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2. To create a practical source which is an interactive application. (multimedia application)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1. To provide case studies of the components of Information Design.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2. To proffer video lectures and guide book.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3. To construct this learning module on RIT on-line.</td>
</tr>
<tr>
<td>To facilitate a learning module for use in the class, Design History in Cyberspace: 20th Century Information Design.</td>
<td>The campus learner can take this course and implement messages.</td>
<td>1. To test this module in an undergraduate class (in spring).</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2. To survey formal evaluating methods.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3. Analyze and synthesize the gathered test results.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>4. To refine this learning module.</td>
</tr>
<tr>
<td>To evaluate this module's function and validity to Design History in Cyberspace: 20th Century Information Design.</td>
<td>To recognize this module's theme of this course.</td>
<td>1. To add new Information Design that represents better understanding to the user.</td>
</tr>
</tbody>
</table>
Information Design/Information design is a synthesis of function, flow, and form. Function is defined as utilitarian need with a definite purpose: to make information easy to find, read, comprehend, and recall. Flow refers to the logical sequence of information. Form means dynamic information patterns and clear rational organization.

Ladislav Sutnar (1897-1976)

To define the syntax of Information Design for better understanding to the user.
### Time/Implementation plan

<table>
<thead>
<tr>
<th>Date</th>
<th>Thesis</th>
<th>Institute calendar</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sep. 5</td>
<td>Research/Analysis</td>
<td>Classes begin</td>
</tr>
<tr>
<td>Oct. 31</td>
<td></td>
<td>Labor Day</td>
</tr>
<tr>
<td>Nov. 5</td>
<td></td>
<td>Halloween</td>
</tr>
<tr>
<td>Nov. 11</td>
<td></td>
<td>Election Day</td>
</tr>
<tr>
<td>Nov. 20</td>
<td></td>
<td>Veterans Day</td>
</tr>
<tr>
<td>Nov. 28</td>
<td>Fall/Winter Break</td>
<td>Thanksgiving Day</td>
</tr>
<tr>
<td>Dec. 2</td>
<td>Classes Begin (Winter)</td>
<td></td>
</tr>
<tr>
<td>Dec. 9</td>
<td>Research Synthesis/Ideation</td>
<td></td>
</tr>
<tr>
<td>Dec. 16</td>
<td>Individual meeting</td>
<td></td>
</tr>
<tr>
<td>Dec. 23</td>
<td>Committee meeting 1st</td>
<td></td>
</tr>
<tr>
<td>Dec. 21</td>
<td></td>
<td>Holiday Break</td>
</tr>
<tr>
<td>Dec. 25</td>
<td></td>
<td>Christmas</td>
</tr>
<tr>
<td>Dec. 30</td>
<td>Individual meeting</td>
<td></td>
</tr>
<tr>
<td>Jan. 1, 1997</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Jan. 6</td>
<td>Individual meeting</td>
<td>Classes resume</td>
</tr>
<tr>
<td>Jan. 9</td>
<td>Individual meeting</td>
<td></td>
</tr>
<tr>
<td>Jan. 13</td>
<td>Committee meeting 2nd</td>
<td>M.L. King Day</td>
</tr>
<tr>
<td>Jan. 20</td>
<td>Individual meeting</td>
<td></td>
</tr>
<tr>
<td>Jan. 27</td>
<td>Individual meeting</td>
<td></td>
</tr>
<tr>
<td>Feb. 3</td>
<td>Implementation/Refinement</td>
<td>Lincoln Birthday</td>
</tr>
<tr>
<td>Feb. 10</td>
<td>Individual meeting</td>
<td>Valentine Day</td>
</tr>
<tr>
<td>Feb. 17</td>
<td>Committee meeting 3rd</td>
<td>Washington Birthday</td>
</tr>
<tr>
<td>Mar. 10</td>
<td>Evaluation/Refinement</td>
<td>Classes Begin (Spring)</td>
</tr>
<tr>
<td>Apr. 7</td>
<td>Writing thesis report</td>
<td></td>
</tr>
<tr>
<td>Apr. 28</td>
<td>Committee meeting 4th</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Prepare Exhibition/</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Thesis Exhibition/3rd</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Report approved</td>
<td></td>
</tr>
<tr>
<td>May 24</td>
<td>Commencement</td>
<td></td>
</tr>
</tbody>
</table>
Appendix A 3 Thesis Exhibition Application Plan

The Thesis Exhibition Application Plan shows the exhibition's basic format and its contents.
Thesis Application Plan/ Exhibition III. April 28 - May 14, 1997

Applications

Study Guide  This study guide will be use in a course titled 20th Century Information Design. The user will be presented the categories and components of Information Design. This study guide includes definitions, matrices, and examples of Information Design landmarks.

Exhibition Panels  The exhibition panels will support a better understanding of The Anatomy of Information Design. It will explain methods of research and analysis.

Display Methods  The exhibition panels will be hung on the wall and the study guide will be installed on a platform.

---

The Anatomy of Information Design

Project Description
Project Goals
What is Information Design?
Research Methodology Diagram

The Anatomy of Information Design Matrix

Study guide cover and spread

Study Guide
The Collaborative Model for Information Design is shown in its development and final stages.
Collaborative Model Version 1

Collaborative Model Version 2/Final version

Designed in collaboration with Professor R. Roger Remington.
Appendix A 5 Evaluation Feedback Form

The Evaluation Feedback Form was given to students in the Spring 1997 junior year Information Design class (see Appendix C 5 for completed forms).
Guide book Feedback

Please fill out this form while reviewing the Information Design Study Guide.
Evaluation is essential to update the study guide content. Thank you so much for your time
and feedback. If you have any suggestions, feel free to stop by the graduate graphic design studio
(room number 3510, Young Kook Kim).

Content Communication in the study guide
What do you think is the study guide’s main content?

Is the content order clear?

Which are the most effective elements in the study guide?

About Anatomy of Information Design Matrix
Can you read and understand the matrix? weak strong
Do the category headings communicate well?
Do the component headings communicate well?

About Evaluation Worksheet
Can you read and understand the diagram on EWS?
Does this model help you to evaluate the examples?

Other Suggestions
Appendix A 6 The Anatomy of Information Design Study Guide

The Anatomy of Information Design Study Guide is an application of this project. Reproductions of this study guide will be handed out in the course packet for the new 20th Century Information Design course in Fall 1997.
A Study Guide
20th Century
Information Design

The Academy of
Information Design
Introduction

What is Information Design?

Definition

Information design involves creating visual representations of data, information, and knowledge to facilitate understanding and decision-making. The discipline of information design is concerned with the effective communication of information through the use of visual and graphic elements. Information designers work with a wide range of data, from simple tables and graphs to complex visualizations that require specialized skills and knowledge.

Components of Information Design

The components of information design include:

- Data: The raw material that is transformed into information.
- Information: Data that has been organized and structured to make it meaningful and useful.
- Knowledge: Information that has been processed and interpreted to provide insight and understanding.
- Communication: The process of conveying information to others through various channels, such as printed materials, digital media, and presentations.

The purpose of information design is to help people make sense of complex information and to support decision-making processes. Information designers use a wide range of tools and techniques to create effective visualizations that help users understand and interpret data.
### Information Design Categories

<table>
<thead>
<tr>
<th>Term</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dot</td>
<td>A visual element that is small enough to attract the eye and serve as an</td>
</tr>
<tr>
<td></td>
<td>introduction. It is typically used at the beginning of a text.</td>
</tr>
<tr>
<td>Line Style</td>
<td>A visual element used to convey a specific message. It can be used to</td>
</tr>
<tr>
<td></td>
<td>guide the reader's eye through a document.</td>
</tr>
<tr>
<td>Shape</td>
<td>A visual element that conveys information. It can be used to represent</td>
</tr>
<tr>
<td></td>
<td>physical objects or concepts.</td>
</tr>
<tr>
<td>Texture/Time/Value</td>
<td>A visual element that conveys emotional or psychological value. It can be</td>
</tr>
<tr>
<td></td>
<td>used to create mood or atmosphere.</td>
</tr>
<tr>
<td>Spaced Organism</td>
<td>A visual element that conveys a sense of space. It can be used to</td>
</tr>
<tr>
<td></td>
<td>create a sense of depth or distance.</td>
</tr>
<tr>
<td>Typography</td>
<td>A visual element that conveys text. It can be used to organize content.</td>
</tr>
<tr>
<td>Color</td>
<td>A visual element that conveys emotion. It can be used to attract attention</td>
</tr>
<tr>
<td>Imagery</td>
<td>A visual element that conveys information. It can be used to</td>
</tr>
<tr>
<td></td>
<td>enhance the overall design.</td>
</tr>
<tr>
<td>Spatial</td>
<td>A visual element that conveys spatial relationships. It can be used to</td>
</tr>
<tr>
<td></td>
<td>create a sense of movement or direction.</td>
</tr>
<tr>
<td>Time/Value</td>
<td>A visual element that conveys a sense of time. It can be used to</td>
</tr>
<tr>
<td></td>
<td>convey a sense of urgency or importance.</td>
</tr>
<tr>
<td>Emphasis</td>
<td>A visual element that conveys importance. It can be used to</td>
</tr>
<tr>
<td></td>
<td>emphasize specific parts of a design.</td>
</tr>
</tbody>
</table>

### Alphabetic

Alphabetic refers to information design that is based on letters and numbers. It can be used to convey information through the use of typography, typography, and typography. This includes the use of letters and numbers to create a visual hierarchy, which can be used to organize and emphasize specific parts of a design.
Diagrammatic

Diagrammatic forms of Information Design are those which record and encode complex, interrelated numeric figures over a period of time. Generally structured in vertical and horizontal axes.

Typical applications of Diagrammatic Information Design are:
Graphs, Charts, Bar Charts, Flow Charts, Tree Charts.

Semitoh Cartographic

The Semiotic Cartographic category refers to map and graphic symbols for geographic data. Typical applications of Semiotic Cartography are:
Maps, Environmental, Art, Venetian.
### Bibliography

**Books**

- *Art and Design* (1975)

**Other Publications**

### General Principles

A series of broad, general principles that guide the overall design of graphic design. These principles are based on the psychological and physiological effects of visual stimuli on human perception and behavior.

**Aesthetic**
- Aesthetics refer to the principles by which visual form is created, utilizing formal and informal visual elements to create a balanced and harmonious composition.

**Analogous**
- Analogous refers to the use of analogous colors in design, where colors are chosen from the same set of hues on the color wheel.

**Chart/Map/Graph**
- Charts, maps, and graphs are used to represent data visually, making it easier to understand and interpret.

**Communication**
- Communication refers to the purpose of graphic design, which is to convey messages and meaning for a variety of purposes.

**Design**
- Design refers to the creation of visual solutions that are both functional and aesthetically pleasing.

**Element**
- Elements are the basic components of graphic design, such as lines, shapes, colors, and textures.

**Emotion**
- Emotion refers to the emotional impact of design on the viewer, which can influence behavior and decision-making.

**Function**
- Function refers to the purpose for which a particular design is created, whether it's for marketing, education, or entertainment.

**Graphic**
- Graphic refers to the use of visual elements in a design to convey information or create a visual impact.

**Graphic Design**
- Graphic design is the process of visual communication, using visual elements to convey messages and ideas.

**Grid**
- A grid is a system of horizontal and vertical lines that form a framework for organizing elements within a layout.

**Information Design**
- Information design is the process of organizing and presenting information in a way that is easy to understand and visually appealing.

**Isotype**
- Isotype is a method of presenting information using visual symbols and icons to represent concepts and ideas.

**Legibility**
- Legibility refers to the clarity and readability of text in a design, ensuring that it is easily understood.

**Message**
- Message refers to the purpose of graphic design, whether it's to inform, persuade, or entertain.

**Module**
- Module refers to the basic unit of design that can be repeated and arranged in a consistent manner.

**Readability**
- Readability refers to the ease with which text is read, ensuring that it is clear and legible.

**Rhythm**
- Rhythm refers to the visual movement and flow of elements within a design, creating a sense of balance and harmony.

**Semiotics**
- Semiotics refers to the study of signs and symbols, and how they are interpreted and used in design.

### Glossary of Terms

<table>
<thead>
<tr>
<th>Term</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grid</td>
<td>A system of horizontal and vertical lines that form a framework for organizing elements within a layout.</td>
</tr>
<tr>
<td>Information Design</td>
<td>The process of organizing and presenting information in a way that is easy to understand and visually appealing.</td>
</tr>
<tr>
<td>Isotype</td>
<td>A method of presenting information using visual symbols and icons to represent concepts and ideas.</td>
</tr>
<tr>
<td>Legibility</td>
<td>The clarity and readability of text in a design, ensuring that it is easily understood.</td>
</tr>
<tr>
<td>Message</td>
<td>The purpose of graphic design, whether it's to inform, persuade, or entertain.</td>
</tr>
<tr>
<td>Module</td>
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</tr>
<tr>
<td>Step</td>
<td>Task</td>
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<td>------</td>
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</tr>
<tr>
<td>1</td>
<td>Identify the problem areas.</td>
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<tr>
<td>2</td>
<td>Develop a plan for improvement.</td>
</tr>
<tr>
<td>3</td>
<td>Implement the plan.</td>
</tr>
<tr>
<td>4</td>
<td>Monitor the progress.</td>
</tr>
<tr>
<td>5</td>
<td>Adjust the plan as needed.</td>
</tr>
<tr>
<td>6</td>
<td>Evaluate the results.</td>
</tr>
<tr>
<td>7</td>
<td>Finalize the project.</td>
</tr>
</tbody>
</table>

### April G.

**Note:**

- Project details and objectives.
- Key stakeholders and their roles.
- Timeline and milestones.
- Budget and resource allocation.
The Anatomy of Information Design

<table>
<thead>
<tr>
<th>Components</th>
<th>Alphanumeric</th>
<th>Pictogrammatic</th>
<th>Product Interface</th>
<th>Diagrammatic</th>
<th>Spatial/Cartographic Hybrids: Explanatory, Informative, Instructional</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dot</td>
<td><img src="image1" alt="Dot Diagram" /></td>
<td><img src="image2" alt="Dot Diagram" /></td>
<td><img src="image3" alt="Dot Diagram" /></td>
<td><img src="image4" alt="Dot Diagram" /></td>
<td><img src="image5" alt="Dot Diagram" /></td>
</tr>
<tr>
<td>Line/Rule</td>
<td><img src="image6" alt="Line/Rule Diagram" /></td>
<td><img src="image7" alt="Line/Rule Diagram" /></td>
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<tr>
<td>Shape</td>
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</tr>
<tr>
<td>Texture/Tone/Value</td>
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<td><img src="image17" alt="Texture/Tone/Value Diagram" /></td>
<td><img src="image18" alt="Texture/Tone/Value Diagram" /></td>
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<tr>
<td>Spatial Organization System/Grid</td>
<td><img src="image21" alt="Spatial Organization System/Grid Diagram" /></td>
<td><img src="image22" alt="Spatial Organization System/Grid Diagram" /></td>
<td><img src="image23" alt="Spatial Organization System/Grid Diagram" /></td>
<td><img src="image24" alt="Spatial Organization System/Grid Diagram" /></td>
<td><img src="image25" alt="Spatial Organization System/Grid Diagram" /></td>
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<td>Typography</td>
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<td><img src="image27" alt="Typography Diagram" /></td>
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<tr>
<td>Color</td>
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<td>Sound</td>
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<tr>
<td>Motion</td>
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<td><img src="image49" alt="Motion Diagram" /></td>
<td><img src="image50" alt="Motion Diagram" /></td>
</tr>
</tbody>
</table>

Using images of study guide and matrix came from reference books which listed on bibliography.
Appendix B 1 Biographies
Biographies/Pioneers and Contemporary Designers of Information Design

Pioneers of Information Design

Otto Aicher (1922-1991) Aicher was a German graphic designer and typographer who led the visual design group for the 1972 Olympic Games in Munich, Germany. He studied at the Akademie der Bildenden Künste, Munich, before establishing a graphic design practice in Ulm in 1948.

Herbert Bayer (1900-1985) Bayer was born in Haag, Austria, and studied architecture in Linz in 1919 and in Darmstadt the following year before studying wall-painting under Wassily Kandinsky at the Bauhaus (1921-23). After a period of painting, which included a trip to Italy, he returned to the Bauhaus to be master of the print workshop in 1925, teaching visual communication and typography. As a Bauhaus student, he had already developed an interest in typography, conceiving the idea of a new alphabet that would simplify the representation of sounds. He designed the cover of the book Bauhaus 1919-23. As a master, Bayer established the lower-case san-serif type as the style for all Bauhaus printing, arguing that the upper case and serifs had only been derived from handwritten forms and were simply perpetuated by tradition. He was also influential in including photography in graphic design and in introducing advertising into Bauhaus teaching.

Lester Beall (1903-1969) Beall was a contributor to the Modern Movement in American Graphic Design before the influx of European immigrant designers in the late 1930s. During the 1950s and 60s, he was responsible for numerous major corporate identity programs. Beall was a self-taught designer, although in 1926 he received a doctorate in art history from the University of Chicago. He brought an understanding of European avant-garde art movements, including Constructivism, DADA, and Surrealism, to the practice of design. Beall worked as a freelance designer in Chicago before establishing his own New York practice in 1936. Between 1937 and 1941, he produced a series of eight silkscreen posters for the Rural Electrification Administration which, with their strong flat colors and geometric simplicity, remain potent and enduring images. He was an early innovator in the development of the design manual as a method of controlling the disparate elements of a corporate identity scheme. A major figure in American design, he became in 1937 the first American graphic designer to be honored with a solo exhibition at the Museum of Modern Art, New York.

Henry C. Beck (1903-1974) Beck designed the London underground diagrammatic map. It was innovative in limiting rout lines to horizontal, vertical and 45° diagonal directions, in breaking from a map format to provide a diagram and in enlarging the central section in relation to the outlying areas. He remained responsible for the diagram's development from 1933 to 1959.

Will Burtin (1908-1972) Bauhaus-influenced graphic and exhibition designer, Burtin was trained as a typographer and designer at the Werkschule, in Cologne, Germany, where he later taught. He emigrated to the US in 1938 and designed exhibition units for the Federal Pavilion at the 1939 New York World's Fair. From 1943-45 he was involved in the American war effort producing training manuals and exhibitions for the Office of Strategic Services and the US Army Air Corps.
George Giusti (1908-1991) Born in Milan, Giusti spent much of his career in the US working in all aspects of graphic communication. He was trained at the Royal Academy of Fine Arts, Milan, and between 1930 and 1937 maintained a practice in Zurich, Switzerland. He emigrated to the US where in 1939 he established a studio in New York. Giusti designed posters, publicity material and exhibitions for government agencies. Giusti’s simplified, symbolic imagery was successfully utilized during twelve years as design consultant for Geigy Pharmaceuticals. He produced many memorable cover designs for the magazines Time, Fortune and Holiday. In 1958 Giusti was elected Art Director of the Year and in 1979 inducted into the Art Directors Club of New York Hall of Fame. He was also a member of Alliance Graphique Internationale (AGI).

Alvin Lustig (1915-1955) Lustig was an American graphic and interior designer and educator who adapted the visual precedents of modern art to design. He was trained at the Art Center School of Design in Los Angeles, where he later taught Louis Danziger. He briefly studied architecture under Frank Lloyd Wright (1935) before opening a design studio and printing shop in Los Angeles (1936-40). During 1945 and 1946 he worked as visual design director of Look magazine in New York. Amongst his most distinguished works were book jackets for New Directions, New York, and Noonday Press and editorial designs for the magazines Art Digest and Industrial Design. His design approach utilized abstract shapes and symbols to express the essence of a product whether it be a book, record sleeve or corporate identity program. Lustig was a major contributor to the graphic design program established at Yale University in New Haven, Connecticut, in 1951. The Museum of Modern Art, New York, staged an exhibition of his work in 1953. His career was tragically cut short by progressive illness and his premature death at the age of forty.

Otto and Marie Neurath (1882-1945) Neurath was the Viennese sociologist who developed the Isotype visual information system. In 1925, with the support of the city council and several trade unions and other bodies, he founded the Gesellschafts-und Wirtschaftsmuseum (Social and Economic Museum), whose aim was to explain the council’s program of social reform. The Isotype visual information system was concerned with the presentation of information, and Otto Neurath put together a team (including his future wife, Marie Reitemeister) to develop graphic methods for this purpose. The system displayed statistics in pictorial form; thus quantified information on education, health provision and especially the large-scale Viennese housing program was translated into a series of repeated images or unit-symbols. This system acquired the title ‘Wiener Methode der Bildstatistik’ (Vienna method of pictorial statistics).

Paul Rand (1914-1996) Rand was the seminal figure in American graphic design who explored the formal vocabulary of European avant-garde art movements including Cubism, Constructivism and DeStijl and developed a unique, distinctly American graphic language. Educated in New York at the Pratt Institute, Parsons School of Design and the Art Students League, he was art director of Esquire and Apparel Art magazines (1935-41).

Anton Stankowski (1906- ) Stankowski studied painting under Max Burchartz in Essen (1927-29). He then moved to Zurich, where he stayed until 1937, establishing himself as a leader in experimental photography and constructive art. In 1948 he moved to Stuttgart, where he worked as a graphic designer. His research in photography and painting was transferred to typographic and graphic design, in which he became adept at creating pictograms, often influenced by Constructivism.
Ladislav Sutnar (1897-1976) Sutnar was a Czech-born graphic and exhibition designer, educator, writer, and an important design innovator in both Europe and America. After training in Prague, he taught at the State School of Graphic Arts, Prague (1923-36), becoming director in 1929. He joined the publishing house of Druzystevni Prace as design director (1929-39). An early interest in painting and stage design developed into the design of exhibitions during the 1930s. Sutnar travelled to America in 1939 as exhibition designer for the Czech Pavilion at the New York World’s Fair; with the political crisis in Europe deepening, he decided to remain. A two-decade association with Sweet’s Catalog Service resulted in the design of Sweet’s Files, annual catalogues of architectural and industrial products conveying complex technical information. He structured this information in a rational, systematic manner using the grid, sans-serif types, color, contrast and lines to produce functional design solutions which allowed an accessible flow of information. His methods foreshadowed developments in ‘information graphics’ during the 1970s. He also produced early corporate identity programs, as in his work for Addox Business Machines. An important commentator on design, his books include Package Design: The Force of Visual Selling (1953), and Visual Design in Action: Principles, Purposes (1961).

Massimo Vignelli (1931- ) A graphic, exhibition and product designer, Vignelli trained as an architect in Milan (1950-53) and Venice (1953-57). In 1965 he created the corporate identity for Knoll International, the furniture manufacturer. He was responsible for the signage and maps for the New York Subway (1966) and the Washington Metro (1968).

Richard Saul Wurman (1936- ) Wurman was trained in architecture at the University of Pennsylvania, and he earned his graduate degree in 1959. During the next 13 years of partnership practice in Philadelphia, he began producing a series of architecturally oriented books on building comparisons, city analysis, and Louis Kahn. He spent 30 years in confrontations with unreasonably disorganized information and produced a series of publications as a result of these confrontations. He explains his application of simple logic to the comparing of cities, buildings and urban statistics, and the mapping of content in disparate subjects like careers, city environments, surgical processes, telephone books, atlases, and corporate chronologies.

Contemporary Information Designers

Jacques Bertin Bertin holds an appointment at the prestigious Ecole des Hautes Etudes en Sciences Sociales in France, where he is director of the Laboratoire de Graphique. He is an internationally recognized authority on the analytic study of graphics; among his recent publications are Graphics and Graphic Information-Processing.

Peter Bradford Bradford is a designer of information, instruction, and identification materials. Since founding his firm, Cement Boat Company, in 1964, he has created many communication program strategies and products for corporations, institutions, and publishers in America and abroad. Recently, he has designed computer strategies and new knowledge representations for printed and electronic encyclopedias and dictionaries.
Ken Carbone/Leslie Smolan  Carbone and Smolan work from their firm, Carbone Smolan, in New York City. They designed the way-finding signage systems for the Louvre in Paris and the World Bank headquarters building in Washington, D.C. Their design program for Putnam Investments, based on an assessment of its marketing practices and needs, resulted in wider audience recognition of the company and the manner in which it sold its products.

Muriel Cooper/ David Small  (1925-1994) Cooper was an active and progressive designer, educator, and researcher. She founded the Visible Language Workshop with Ron MacNeil in 1975 and coordinated its overall plan to investigate the intersection of visual communication, design research, and artificial intelligence. Her own research concerns were the qualitative graphic filtering of information in a dynamic, interactive, and expressive multimedia environment. Small received his Bachelor's degree from MIT's Cognitive Science Department in 1987 and his Master's degree from the Media Laboratory in 1990, while he was Cooper's student. He creates and teaches information design for high-resolution displays, develops research software, and has published a watercolor simulation written on the Media Lab's Connection Machine II.

Richard Curtis  Curtis is a graduate of the School of Design at North Carolina State University and a member of the board of directors of the university's foundation. He traces the evolution of the USA TODAY Weather page and its format architecture over a period of 13 years. As the newspaper's current managing editor of graphics and photography, he directs the development of the page, along with its popular diagramming techniques.

Michael Donovan/ Nancye Green  Donovan and Green established their firm, Donovan and Green, in New York City in 1974. They designed the process of documenting and displaying data in the Reagan Presidential Library, the documenting of two interactive programs for 3M, and the documenting of pharmaceutical research for F. Hoffmann-LaRoche. Green earned degrees in political science and environmental design. Donovan earned degrees in environmental design and taught the subject for many years. He has created and directed many corporate identity programs.

Adrian Frutiger  (1928- ) Frutiger is a Swiss typographer and typeface designer. He trained at the Kunstgewerbeschule, Zurich (1948-52). He moved to Paris in 1952 following an invitation from Charles Peignot, of the typefounders Deberny & Peignot. He quickly established his credentials as a type designer with his first major typeface, Méridien (1955). His international reputation was established with Univers, a sans-serif typeface. He has been a consultant to IBM, the Stempel typefoundry, and the airports of Paris, producing lettering for the signage at Charles de Gaulle airport during the early 1970s.

John Grimwade  Grimwade has designed diagrammatic illustrations since receiving his degree from the Canterbury College of Art in the United Kingdom. After illustrating for The Sunday Times, and serving as Head of Graphics for The Times in London, he was appointed the Graphic Art Director for Conde Nast Traveler in New York City where his clear diagramming has become a popular trademark of the magazine.
April Greiman (1948- ) Greiman is an American graphic designer whose highly innovative work reflects a witty synthesis of Swiss Style graphic design, the color and culture of California, and the multi-layered effects made possible by technology. She was trained at Kansas City Art Institute and undertook postgraduate studies with Wolfgang Weingart and Armin Hofmann at the Kunstgewerbeschule, Basle.

Maria Giudice/Lynne Stiles Giudice is a well-known calligrapher and information designer. Stiles studied architecture at the University of North Carolina. The two met at the design firm, Understanding Business, in San Francisco where they both managed editions of US Atlas and helped to develop the Pacific Bell Smart Yellow Pages. They founded their own firm, YO, in 1991.

Nigel Holmes After graduating from the Royal College of Art, Holmes worked in London until 1978, when he moved to New York City to design information graphics for Time magazine. Since then, he has designed maps, charts, and diagrams for most major publications.

Joel Katz Katz has taught at Yale, Rhode Island School of Design, and the Philadelphia College of Art. He writes and lectures widely on his special interest and expertise in the visualization of complex cartographic, process, financial, and statistical information. His articles have appeared in Messages, the AIGA Journal of Graphics, and Visible Language.

Krzysztof Lenk/Paul Kahn Lenk studied graphic design at Poland’s Academy of Fine Arts and earned his MFA degree in 1961. He practiced and taught in Europe until 1982 when he was appointed professor of graphic design at the Rhode Island School of Design. He is a partner and design director at Dynamic Diagrams, a consulting company concentrating on interface design for both print and electronic media. Kahn has trained in literature and typography, and has worked with many electronic publishing systems since 1977. At Brown University’s IRIS, he served as project manager and director to develop educational hypertext applications.

David Macaulay Macaulay is the author and illustrator of many internationally acclaimed, bestselling books about architecture. He was 11 when his family moved from England to the United States. His fascination with simple technology and the way things work, together with his love of model-making and drawing, led him to study architecture at the Rhode Island School of Design. He is best known for The Way Things Work (1988), a dictionary-style book illustrating the functional ‘hows and whys’ of common items.

Aaron Marcus Marcus is the principal and founder of the design firm Aaron Marcus and Associates, in Emeryville, California. He received his BFA and MFA from Yale University, and his BA from Princeton University.

Dave Merrill After earning degrees in Government and Art from the University of Virginia, Merrill began drawing political cartoons for the Washington Business Review. Later, as a designer and infographic specialist at US News and World Report, he pioneered the implementation of computer systems to produce four-color desktop illustrations for newsmagazine stories.

Clement Mok Mok, of CMd (Clement Mok designs, Inc.) in San Francisco, explains his use of interactive multimedia to advance and manage different kinds of information, including the design of products. He spent five years as the Creative Director at Apple Computer, where he was involved in projects including the launch of the Macintosh and HyperCard.
Don Moyer
Moyer is a graphic designer and writer. While a student at the Philadelphia College of Art, Moyer first met Richard Saul Wurman and was intrigued by his enthusiasm for making information clear. After graduation, he worked in Wurman’s office. AMS (Agnew Moyer Smith) now concentrates on projects in publishing, corporate identity, packaging, interface design, and exhibits for clients in this country and abroad.

Bruce Robertson
Robertson trained at the Sunderland Art College, where he obtained an Honors Degree in Drawing, and later at the Royal College of Art. In 1967, he co-founded his studio, Diagram Visual Information, to produce a large body of diagrammatic publications and visual displays of information for the international publishing market.

Nathan Shedroff
Shedroff has been an information and interface designer for over six years. He worked with Richard Saul Wurman as a senior designer at Understanding Business in San Francisco, helping to design the Pacific Bell Smart Yellow Pages and the book Information Anxiety. Since co-founding the design firm Vivid in 1990, he has supervised the development of new interaction paradigms for digital reference tools, online worlds, and productivity software.

Erik Spiekermann
Spiekermann, of MetaDesign in Berlin, designed one of information’s essential building blocks, a clear and flexible typeface. Also, as the designer of the new diagram for Berlin’s transportation system, he traces the evolution of the system from the 1960’s. He has written many articles about type and is well known as an international authority on typeface design. Spiekermann claims that designing complex information systems is his hobby.

Alexander Tsiaras
Tsiaras studied art history and film at Amherst College. He began producing his extraordinary photographic essays for Life magazine in 1980. For these stories he developed and adapted endoscopic lenses to record some of the first photographs of human egg fertilization and the development of the fetus from three weeks old to just before birth. Tsiaras has created stories for many other national and international publications including New York Times Magazine, London Times Magazine, GEO, and Smithsonian.

Additional Contemporary Information Designers
Robert Abel
Lauralee Alben/Jim Faris
Matthew Carter
Hugh Dubberly
Nathan Felde
Bruce Ian Meader
Ted Nelson

These biographical materials have been derived from Thirty Centuries of Graphic Design, Graphic Design: a Concise History, Encyclopedia of 20th Century Design and Designer, Encyclopedia of Design and Designer, and Information Architects. Professor R. Roger Remington provided further information on the above pioneering and contemporary Information designers.
Appendix B 2 Glossary of Terms
<table>
<thead>
<tr>
<th>Glossary of Terms</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aesthetics</td>
<td>The process by which visual form is created, utilizing formal visual principles which are directed for a specific purpose and/or message.</td>
</tr>
<tr>
<td>Analogue</td>
<td>A system using a physical variable to represent numbers in arithmetical calculations.</td>
</tr>
<tr>
<td>Audience</td>
<td>The receivers of the graphic design image; either individuals or groups to whom the message is directed.</td>
</tr>
<tr>
<td>Chart, Table, Graph</td>
<td>Chart and Table commonly refer to data displayed in columns and rows; the data takes the form of discrete (rather than continuous) elements, such as numbers, letters, or symbols. Graph commonly refers to data represented by a continuous line or lines plotted across a grid. Generally, graphics are structured by x and y axes.</td>
</tr>
<tr>
<td>Communication</td>
<td>The facilitation of messages and meaning for a purpose; the purpose of graphic design. One communication model is as follows: an informative source encoding a message, which is then transmitted along a channel to a receiver, who then decodes the message and reacts in some way.</td>
</tr>
<tr>
<td>Diagram</td>
<td>A spatial representation of an object or process.</td>
</tr>
<tr>
<td>Digital</td>
<td>A system in which information is represented in the form of changing electrical signals.</td>
</tr>
<tr>
<td>Discipline</td>
<td>The hard work, open-mindedness, dedication, and willingness to explore new frontiers required to become an 'expert' in graphic design.</td>
</tr>
<tr>
<td>Elements</td>
<td>The parts, components, or variables of form within a format.</td>
</tr>
<tr>
<td>Evaluation</td>
<td>The most basic purpose of all graphic design methodology; the use of one's knowledge, skills, and sensitivities to make a decision in any form or problem-solving situation.</td>
</tr>
<tr>
<td>Form</td>
<td>The characteristics that distinguish one visual mark from another, including shape, size, color, and texture.</td>
</tr>
<tr>
<td>Format</td>
<td>The space in which an image lives and works. In determining formats, the designer needs to be conscious that in its most basic sense, the format itself is communicating a message.</td>
</tr>
<tr>
<td>Function</td>
<td>The purpose for which all graphic design form exists; 'design that works' for its intended purpose; may be the difference between art and design.</td>
</tr>
<tr>
<td>Gestalt Principles</td>
<td>A series of perceptual laws that were identified by several German psychologists in the early 1900's. A working knowledge of these &quot;organizational or grouping&quot; laws allows the graphic designer to create form that takes into allowance the physiological ways that human beings perceive images.</td>
</tr>
<tr>
<td>Grid</td>
<td>A structural system or framework for organizing elements within a format; can be conceptual (a matrix) or physical (a typographic unit grid); can be built upon a typographic, compositional, or constructional basis; can be regular, irregular, or progressive in rhythm.</td>
</tr>
</tbody>
</table>
Information Design

“Information Design is a synthesis of function, flow, and form. Function is defined as utilitarian need with a definite purpose: to make information easy to find, read, comprehend, and recall. Flow refers to the logical sequence of information. Form means dynamic information patterns and clear rational organization.”
Ladislav Sutnar (1897-1976)

Types of Information Design

<table>
<thead>
<tr>
<th>Typography – Alphanumeric</th>
<th>Symbols – Pictographic</th>
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<tbody>
<tr>
<td>Interface – Product Interface</td>
<td>Diagrams – Diagrammatic</td>
</tr>
</tbody>
</table>

Isotype

(International Systems of Typographic Pictorial Education) A system of conveying statistical information by means of repeated unit-symbols, often used in graph form to convey comparative statistics of different elements.

Legibility

The recognizability or readability of a form in relationship to its purpose and context; may be representational, abstract, or a point between; allows a message to be communicated clearly.

Message

The intended communication outcome of meaning to an audience.

Module

A spatial unit in any organizational method; may be regular, as in the typographic unit grid, or progressive, as in the proportional grid.

Perceptual Theory

The approach based on cognitive considerations such as the Gestalt Principles. Visual structures can be consciously organized and systematically manipulated by the Gestalt laws that can influence the way an audience perceives those structures.

Proportion

A comparative relationship based on geometric progression.

Proximity

A Gestalt principle which means that forms which are arranged near each other are perceived as a unified entity.

Readability

The extent to which an image is legible and thereby understandable.

Rhythm

A system of frequency (or intervals) involved in form development and communication; can be regular, irregular, progressive, or a combination.

Semantics

The relationship among signs and symbols and the objects they represent.

Semiotics

The study of signs and the way they work.

Skeleton

A framework, grid, or other organizing structure upon which a design is built. The elements of a design are ‘hung’ on the organizing structure as flesh is ‘hung’ on the bones of a skeleton.

Syntax

The grammar of visual communication (i.e. line, shape, etc.).

Systems Theory

The systems approach is concerned with conceptual, color, image, spatial, typographic, and language systems and the ways in which these systems make information communicable and effective to audiences.
<table>
<thead>
<tr>
<th>Term</th>
<th>Description</th>
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<tbody>
<tr>
<td>Time Line</td>
<td>Another variation of the chart/graph type; simply, a chart or graph with a time axis, can be used to study the past, record the present, or plan the future.</td>
</tr>
<tr>
<td>Tonality</td>
<td>An actual or implied value of lightness or darkness in the form created. Controlled tonality can be a useful visual variable in achieving unity, contrast, movement, and progress.</td>
</tr>
<tr>
<td>Typeface</td>
<td>The alphabet created for the purpose of reproduction. The individual characters of a typeface are designed to work in different combinations and to remain consistent when reproduced by printing.</td>
</tr>
<tr>
<td>Typographic Unit Grid</td>
<td>An organizational method by which a square unit is designated based on the text type and one unit of space. This unit breaks the format into a type A or unit grid and is then divided into columns, margins, etc. for a type B or modular/composite grid. Type, photographs, symbols, and other elements are arranged according to this type B grid.</td>
</tr>
<tr>
<td>Variables</td>
<td>The set of different design approach possibilities. According to design formation needs, the designer selects specifications of these variables (i.e., typographic variables include size, line spacing, position, etc.).</td>
</tr>
<tr>
<td>Visibility</td>
<td>The quality of form in an image and its capacity to be viewed coherently and understood.</td>
</tr>
<tr>
<td>Visual Language</td>
<td>The formal aesthetic communications system used in graphic design.</td>
</tr>
<tr>
<td>Visual Rhetoric</td>
<td>A vocabulary which describes the effective, persuasive use of speech. Invented by the ancient Greeks, rhetoric is the oldest theory of language in the West. It is always directed towards practice; it describes the living, social function of language, not its abstract grammar. Rhetoric is theoretical and practical, a tool for describing existing statements and for designing new ones. Rhetoric is not a set of fixed stylistic rules, but an open description of the patterns and processes of communication.</td>
</tr>
</tbody>
</table>
Appendix B 3 Bibliography
Bibliography

Books

Albers, Josef


Brockman, Josef Müller


Craig, James and Bruce, Barton


Dondis, Donis A.


Easterby, Ronald and Zwaga, Harm


Gerritsen, Frans


Gerstner, Karl


Greiman, April


Herdeg, Walter


Hiebert, Kenneth J.


Hofmann, Armin


Hollis, Richard


Holmes, Nigel


Hurlburt, Allen


Julier, Guy

Kepes, Gyorgy
Livingston, Alan and Isabella
Maier, Manfred
Miller, Abbott
Marcus, Aaron
Modley, Rudolf
Rehe, Rolf F.
Remington, Roger and Hodik, Barbara
Remington, Roger
Ryder, John
Saint-Martin, Fernande
Swann, Cal
Tinker, Miles Albert
Tufte, Edward
Wildbur, Peter
Wurman, Richard Saul


Other Publications


Web Sites

Alben + Faris
Dynamic Diagrams
MIT Media Lab
Meta Design
Clement Mok
Nathan Shedroff
Richard Saul Wurman
ZIP2

http://www.albenfaris.com
http://www.dynamicdiagrams.com
http://www.media.mit.edu/~dsmail
http://www.metadesign.com
http://www.cmdesigns.com
http://www.vivid.com
http://www.ted.com
http://www.zip2.com
Appendix C 1 Course Syllabus
Management Plan for Distance Learning Course
20th Century Information Design/
R. Roger Remington

The Course Syllabus for 20th Century Information Design was developed and written by Professor R. Roger Remington. It includes factual information about the course as well as a Course Description, Course Objectives, Course Relevance and Rationale, Information Design Definitions, Course Bibliography, Course Communication Methods, Course Mechanics, and Course Project Work and Assignments.
Course Syllabus

20th Century Information Design
Course Number: 3001-300-90

1. Course Communications Data
Name: Professor R. Roger Remington
Office: Booth (07A) Room 3404
Email: rrmfd@rit.edu
Office: Booth (07A) Room 3404
Phone: (716) 475-2658
Fax: (716) 475-6447
Phone Conference: (see the attached calendar by week) if out of town, call the Office of Distance Learning at (716) 475-5089 for the 800 number.
Notes: Conference:

2. Course Description
This course will give students an opportunity to learn about the history of information design in this century. An interdisciplinary course, it is intended for anyone who is interested in and aspires to process, design, present and implement message-making through words/text, charts, symbols, maps, pages, signs and computer screens/interfaces. Course content includes definition and anatomy of information design, theories that inform information design, and a review of examples of pioneering and contemporary information designers. An in-depth case study will focus upon one information design pioneer, utilizing resources from RIT’s Archives.

3. Course Objectives:
When the learner has successfully completed the course, they will be able to:
- recognize what information design is, how it is categorized, its component parts, theories that inform it, and means of evaluating it.
- understand key creators and seminal projects of information design from the past and present in the context of their historical time and place.
- identify through a study of his life and work, the importance of Will Burtin as a major pioneer of information design.
- compare works of information design and analyze their similarities and differences.
- apply the content provided in this course to their needs as creators of information design.
- evaluate examples of information design as to their effectiveness or ineffectiveness.

4. Course relevance and rationale
The Center for Digital Media, as the unit of RIT which is offering the course, is a natural place for reaching an interdisciplinary audience, both at RIT and for distance learners in other venues. The interdisciplinary nature of the perspective of the course emulates the collaborative model so evident now in the professional workplace. RIT has other unique resources in its creative and technical faculty, in its capacity to deliver and deliver quality distance learning programs, and in its archival collections of original source materials designed by many of the individuals featured in the course.

Target learners
This course is necessary for any student who aspires to process, design, present and implement messages. Students in creative programs such as design, art, photography, printing, film/video as well as those in more technical majors such as information technology will find the course content useful for their needs and complimentary to the work in their major. Most learners will be on the undergraduate level. This course will not require previous experience, however, optimal use of the content is enhanced with previous experience in history, history of art, history of design, history of photography and professional studio courses in visual communication (graphic design, photography, Film and Video, Media)

Design Archive Online, a digital online resource program, will be available to students in the course as a means of accessing images and data necessary for research on course assignments. A new module for Design Archive Online is being developed on 20th Century Information Design which will highlight the following designers represented in the RIT Special Collections: Will Burtin, Lester Beall, George Giusti, Alvin Lustig and Ladislav Sutnar.
The following points provide a rationale for the importance of this new course:
- Many RIT programs deal with the information, communication and media. This course will provide an historical context for these programs.
- The presentation of case studies will bring relevance to this history and theory.
- Information design is work that by its nature demands interdisciplinary expertise. This course will enhance the collaborative goal of the Center for Digital Media.
- Most basically, information from a course such as this is important knowledge for the educated professional in any discipline.

5. What is Information Design?
"The new information age will require many information designers. They will have to be capable of taking information users into account as part of their professional activity. This will require a redefinition of their job, an acknowledgement of their own limitations and an informed and sensitive awareness of the needs of information users. The last of these can only be achieved by forming better theories about users, developing methods of design research which are not dependent on outside expertise and acquiring an informed sense of the history of information design, combining all these to create new conventions to meet new communication needs and technologies."
David Sless
"It is an area of design that is concerned with understanding reader and user responses to written and visually-presented information. The kinds of problems germane to information design include legal documents, business forms, diagrams, guidebooks, transportation maps, charts, tables, instructional materials, wayfinding systems and digital information systems."
Bruce Meader
"Information design is a synthesis of function, flow and form. Function is defined as utilitarian need with a definite purpose: to make information easy to find, read, comprehend, and recall. Flow refers to the logical sequence of information. Form means dynamic information patterns and clear rational organization."
Ladislav Sutnar (1997-1976)
6. Course Bibliography
Following is a preliminary listing of important reference books on information design. A more complete bibliography will be presented in the course materials.
- Bertin
  - The Semiology of Graphics
- Easterby/Harrm/Zwaga
  - Information Design
- Herdeg
  - Graphs Diagrams
- Monier
  - How to Lie with Maps
- Tufte
  - The Visual Display of Quantitative Information
- Envisioning Information
- Wildur
  - Information Graphics
- Wurman
  - Information Anxiety
  - Information Architects
- Nadin and Zakia
  - Creating Effective Advertising Using Semiotics
- Sutnar
  - Visual Design in Action
- Meggs
  - A History of Graphic Design
- Marcus
  - Graphic Design For Electronic Documents & User Interfaces
- Mayhew
  - Software User Interface Design

7. Course Communications Methods
There are three primary ways by which information can be exchanged between student and instructor:
A. The first is electronic mail, which you may send to rrfad@rit.edu (or rrfad on RIT's Vax/VMS system). Make certain that you include the course number 3001-300-90 on all messages.
B. The second mode of communication is via First Class. A conference has been created for the class; not surprisingly, it is called __________. I will use this conference to distribute course information, to answer questions that seem to have broad implications and to engage in on-line discussions with the class as a whole. As important information will be posted here, including information on homework, exams, etc., it behooves you to consult this conference frequently. In particular you should consult the notes and replies under __________ frequently.

C. There will be a phone conference approximately every other week. Experience has shown that it is difficult to discuss technical materials over the phone, so I would suggest that conferences as a way of clarifying general questions. Complex questions are best answered via exchanges in email or preferably in the Vax/notes conference. To join in the discussion, simply dial the number given at the beginning of this handout.

8. Course Mechanics
A. Grading
The final grade in this course is based on the following evaluative criteria:
- Project work 75%
- Final Exam 15%
- Participation 10%

B. Course Format
Course will be composed of ______ classes, each running up to ______ minutes in length. Within each class, material will be presented in ______ minute modules.

9. Course Project work and Assignments
A. Required Projects
Below are a series of four required projects. You must work on these projects over the course and submit papers and materials as requested by the end of the quarter.
- DataInfo
- Compare/Contrast
- DesignArchiveOnline
- Point-of-View
This is a preliminary list. Detailed project and assignment information will be provided in the course materials.

B. Optional Projects
In addition to the above projects, I will also offer a series of optional projects that you can work on for credit during the course.
- SurfInfo
- Content Organizing Project
- Field Visit Project
- Anatomy Project
- Crystal Ball Special
- Research Project
This is a preliminary list. Detailed project and assignment information will be provided in the course materials.
Appendix C 2 Course Plan/R. Roger Remington

The Course Plan for 20th Century Information Design gives an overview of the course units and modules, including the modules to which this thesis project are applied (Unit 2 – Fundamentals: Module Two, Anatomy of Information Design, and Module Three, Categories of Information Design).
The 20th Century Information Design course plan is as follows:

### Unit 1: Introduction

**Module One**

**Content:** Overview of Information Design

**Questions:**
- Why is it useful to study design history?
- From what point of view is this course designed?
- What is Information Design?
- What is the role of human factors?
- What is important Information Design historical references prior to 20th century?

**Format:**
- Video lecture and visuals (RR-BM)
- Assignment: Explain course project notebook

**Discussion Points:**
- None

**Conferences:**
- Use course guide book by Y. Kook-Kim

### Module Two: Fundamentals

**Content:** Anatomy of Information Design

**Questions:**
- What is Information Design?
- What is Information Design which show anatomy?
- Who is Information Design pioneers?

**Format:**
- Use course guide book by Y. Kook-Kim

**Discussion Points:**
- Categories of Information Design

**Conferences:**
- Use support media created by CC

### Module Three: Categories of Information Design

**Content:**
- The vocabulary of Information Design:
  - Alphanumeric
  - Pictographic
  - Product interface
  - Diagrammatic
  - Spatial/Cartographic
  - Hybrids: Informat/Explanatory

**Questions:**
- What is Information Design?
- What is Information Design that illustrate these categories?
- What are seminal examples of Information Design that illustrate these categories?
- Who is Information Design pioneers?
- When? Where?

**Format:**
- Video lecture with visuals

**Discussion Points:**
- None

**Conferences:**
- Use support media created by CC

### Module Four: Evaluating Information Design

**Part One:**

**Content:**
- Macro view: Theories that inform Information Design:
  - Identify and present major theories that inform and influence Information Design:
  - Information theory (Tufte, Warman)
  - Aesthetic theory
  - Sign theory
  - Whole Systems theory
  - Learning theory
  - Human factors/Ergonomics

**Questions:**
- What is an important theory?
- What is a theory?
- Which theories provide structure for evaluating Information Design?
- Which seminal examples best illustrate theories?
- Which pioneering designers created these designs?

**Format:**
- Video lecture and visuals (RR-CC)

**Assignment:**
- Use support media created by CC+

**Discussion Points:**
- None

**Conferences:**
- Use support media created by CC+

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**Unit 3: Case Study**

**Module Five: Case Study**

**Part One**

**Content:**
- Introduction of Burtin

**Questions:**
- Burtin in Germany
- Who is Burtin?

**Format:**
- Video lecture and visuals

**Assignment:**
- Use DesignArchiveOnline

**Discussion Points:**
- None

**Conferences:**
- Will Burtin case study

**Part Two**

**Content:**
- Burtin’s mature process

**Questions:**
- Video interview with Carol and Robert Fripp

**Format:**
- DesignArchiveOnline

**Assignment:**
- Use DesignArchiveOnline

**Discussion Points:**
- None

**Conferences:**
- Will Burtin case study

**Part Three**

**Content:**
- Case Study of Upjohn projects

**Questions:**
- Video lecture and visuals

**Format:**
- DesignArchiveOnline

**Assignment:**
- Use DesignArchiveOnline

**Discussion Points:**
- None

**Conferences:**
- Will Burtin case study

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**Unit 4: Application**

**Module Six: Application**

**Content:**
- Information design practice for non-designers

**Questions:**
- Video lecture and visuals

**Format:**
- DesignArchiveOnline

**Assignment:**
- Use DesignArchiveOnline

**Discussion Points:**
- None

**Conferences:**
- Will Burtin case study

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The most common definition of Information is: the act of informing, formation or molding of the mind or character, training, instruction, teaching, the communication of instructive knowledge.

Information Design can be made to inform. It must be imbued with form and applied to become meaningful information, leading to understanding.

Young Kook-Kim
Appendix C 3 Task Overview/Clifford Commanday

The Task Overview was developed and written by Clifford Commanday, RIT graduate student in Graphic design, and shows the team development of the new course, 20th Century Information Design.
Appendix C 4 Navigation Plan
Design Archive Online draft/Dan Mongeau

The Navigation Plan was created by Dan Mongeau, RIT undergraduate student in Industrial design, and shows the navigation system among the screen stages for the 20th Century Information Design course on the RIT Design Archive Online. Users will be able to access some parts of this thesis project, including The Anatomy of Information Design.
Appendix C 5 Evaluation Feedback Form from Junior Class

The Evaluation Feedback Form from the Spring 1997 junior year Information Design class shows student responses (10) to *The Anatomy of Information Design* study guide, matrix, and evaluation worksheet, based on clarity and communicability.
Guide book Feedback

Please fill out this form while reviewing Information Design Guide book.
Evaluation is essential to update Guide book content. Thank so much for your time and feedback.
If you have any helpful suggestion feel free stop by graduate graphic design studio.
(room number 3510, Young Kook Kim)

Content Communication in the guidebook

What do you think is the guide book content?
An educationally orientated to the scope of Information design, its theories, and applications.
Is the content order clear?

which is the most effective elements in the guide book?
I gained from comparing the questions to your diagrams especially Laster Beull's.

About Anatomy of Information Design Matrix

Can you see and understand the matrix?

Is the use of categories heading communicate well?

Is the use of components heading communicate well?

About Evaluation Work Sheet

Can you see and understand the matrix?

Does the model help to evaluate the examples?

Other Suggestions
Guide book Feedback


If you have any helpful suggestion feel free stop by graduate graphic design studio. (room number 3510, Young Kook Kim)

April 1997

Content Communication in the guidebook
What do you think is the guide book content?
- a systematic overview of the components of information graphics

Is the content order clear?
- yes. the table of contents helps set the reader into a systematic view of information graphics

Which is the most effective elements in the guide book?
- content yeage
- teamwork model - matrix

About Anatomy of Information Design Matrix

Can you see and understand the matrix?

Is the use of categories heading communicate well?

Is the use of components heading communicate well?

About Evaluation Work Sheet

Can you see and understand the matrix?

Does the model help to evaluate the examples?

Other Suggestions

the evaluation model is a little complex unclear - try breaking it down as you have the matrix.
Guide book Feedback
Please fill out this form while reviewing Information Design Guide book.
Evaluation is essential to update Guide book content. Thank so much for your time and feedback.
If you have any helpful suggestion feel free stop by graduate graphic design studio.
(room number 3510, Young Kook Kim)

Content Communication in the guidebook
What do you think is the guide book content?
I think it was a lot of info

Is the content order clear? yes

which is the most effective elements in the guide book?
I think the diagram is.

About Anatomy of Information Design Matrix
Can you see and understand the matrix?
weak strong
at first I couldn't even make the matrix is small.

Is the use of categories heading communicate well?

Is the use of components heading communicate well?

About Evaluation Work Sheet
Can you see and understand the matrix?

Does the model help to evaluate the examples?

Other Suggestions
try to make the matrix larger or more readable. I think it would also work better if you explained the matrix on paper as well as you explained it in class.
Guide book Feedback

Please fill out this form while reviewing Information Design Guide book.
Evaluation is essential to update Guide book content. Thank so much for your time and feedback.
If you have any helpful suggestion feel free stop by graduate graphic design studio.
(room number 3510, Young Kook Kim)

April 1997

Content Communication in the guidebook

What do you think is the guide book content?

The anatomy of information design, its categories + components

Is the content order clear?

very clear

which is the most effective elements in the guide book?

the matrix + the information design components

About Anatomy of Information Design Matrix

Can you see and understand the matrix?
images included make very clear

Is the use of categories heading communicate well?

Is the use of components heading communicate well?

About Evaluation Work Sheet

Can you see and understand the matrix?

Does the model help to evaluate the examples?

Other Suggestions
Guide book Feedback
Please fill out this form while reviewing Information Design Guide book.
Evaluation is essential to update Guide book content. Thank so much for your time and feedback.
If you have any helpful suggestion feel free stop by graduate graphic design studio.
(room number 3510, Young Kook Kim)

Content Communication in the guidebook
What do you think is the guide book content?
Information design and its use.

Is the content order clear?
Very clear.

which is the most effective elements in the guide book?
Information + matrix.

About Anatomy of Information Design Matrix
Can you see and understand the matrix?

Is the use of categories heading communicate well?

Is the use of components heading communicate well?

About Evaluation Work Sheet
Can you see and understand the matrix?
Very clear.

Does the model help to evaluate the examples?

Other Suggestions
Guide book Feedback

Please fill out this form while reviewing Information Design Guide book.
Evaluation is essential to update Guide book content. Thank so much for your time and feedback.
If you have any helpful suggestion feel free stop by graduate graphic design studio.
(room number 3510, Young Kook Kim)

Content Communication in the guidebook

What do you think is the guide book content?

*information design processes & themes*

Is the content order clear?

**YES**

which is the most effective elements in the guide book?

About Anatomy of Information Design Matrix

Can you see and understand the matrix?

Is the use of categories heading communicate well?

Is the use of components heading communicate well?

About Evaluation Work Sheet

Can you see and understand the matrix?

Does the model help to evaluate the examples?

Other Suggestions
Guide book Feedback

Please fill out this form while reviewing Information Design Guide book. Evaluation is essential to update Guide book content. Thank so much for your time and feedback. If you have any helpful suggestion feel free stop by graduate graphic design studio. (room number 3510, Young Kook Kim)

Content Communication in the guidebook
What do you think is the guide book content?

Information on Information Design

Is the content order clear?
No I think the Design Component should be before the matrix which is the most effective elements in the guide book?
The graphics of the images

About Anatomy of Information Design Matrix

Can you see and understand the matrix?

Is the use of categories heading communicate well?

Is the use of components heading communicate well?

About Evaluation Work Sheet

Can you see and understand the matrix?

Does the model help to evaluate the examples?

Other Suggestions
Feedback
Please fill out this form while reviewing Information Design Guide book.
Evaluation is essential to update Guide book content. Thank you so much for your time and feedback.
If you have any helpful suggestion feel free stop by graduate graphic design studio.
(room number 3510, Young Kook Kim)

April 1997

Content Communication in the guidebook
What do you think is the guide book content?

I think the guide book is a well organized book, and the information which it includes to be very helpful.

Is the content order clear?

Yes, I had no problem in understanding the information.

which is the most effective elements in the guide book?

The definition followed by the examples provided.

About Anatomy of Information Design Matrix

Can you see and understand the matrix?

weak  strong

Is the use of categories heading communicate well?

Is the use of components heading communicate well?

About Evaluation Work Sheet

Can you see and understand the matrix?

weak  strong

Does the model help to evaluate the examples?

Other Suggestions
Guide book Feedback
Please fill out this form while reviewing Information Design Guide book.
Evaluation is essential to update Guide book content. Thank so much for your time and feedback.
If you have any helpful suggestion feel free stop by graduate graphic design studio.
(room number 3510, Young Kook Kim)

Content Communication in the guidebook
What do you think is the guide book content?
The components and basic theories of communication design

Is the content order clear?
Yes

which is the most effective elements in the guide book?
layout of text with image : hierarchy of elements

About Anatomy of Information Design Matrix
Can you see and understand the matrix?

Is the use of categories heading communicate well?

Is the use of components heading communicate well?

About Evaluation Work Sheet
Can you see and understand the matrix?

Does the model help to evaluate the examples?

Other Suggestions

"Shorway of Items is an excellent idea. Very practical."
"The same about Biographies at the end. That idea!
Everything is very clear + legible.
"The images in the Anatomy of Design Matrix are unclear because of size + output quality."
Guide book Feedback

Please fill out this form while reviewing Information Design Guide book.

Evaluation is essential to update Guide book content. Thank so much for your time and feedback.

If you have any helpful suggestion feel free stop by graduate graphic design studio.

(room number 3510, Young Kook Kim)

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Content Communication in the guidebook

What do you think is the guide book content?

- the history of information design

Is the content order clear?

Yes

which is the most effective elements in the guide book?

---

About Anatomy of Information Design Matrix

Can you see and understand the matrix?

[Weak] [Strong]

Is the use of categories heading communicate well?

[Weak] [Strong]

Is the use of components heading communicate well?

[Weak] [Strong]

---

About Evaluation Work Sheet

Can you see and understand the matrix?

[Weak] [Strong]

Does the model help to evaluate the examples?

[Weak] [Strong]

---

Other Suggestions