

The Anatomy of Information Design Young Kook Kim

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Rochester Institute of Technology

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The Anatomy of Information Design

by Young-Kook Kim

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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;
- to publish The Anatomy of Information Design study guide for classroom use and dissemination on the World Wide Web.

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

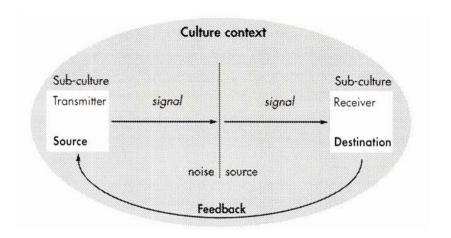
Several design theories – Semiotic Theory, Perceptual Theory, Visual Rhetoric, Systems
Theory – are closely related to Information Design (see page 9, 19). Among many theories,
the Communication Theory structure can also apply to information communication.
It establishes the relationship between transmitter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



Synthesis

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.

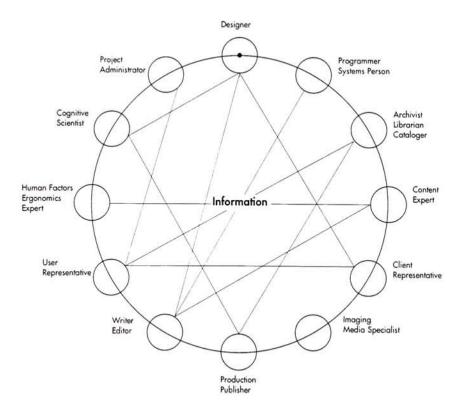
Precise statements of design theory (including Semiotic Theory, Perceptual Theory, Visual Rhetoric, and so on) were located in order to establish meaningful connections and make the matrix and evaluation worksheet more useful. Focusing on the Semiotic Theory and applying it to the evaluation worksheet 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" and
- 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

Pictogrammatic

Product Interface

Diagrammatic

Spatial/Cartographic

Informative/Explanatory

Fifteen components - Line/Rule

Typography

Layout

Grid

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

Categories of Information Design

	Alphanumeric	Pictogrammatic	Product Interface	Diagrammatic	Spatial/	Informative/
Anatomy					Cartographic	Explanatory
Line/Rules						
Typography						
Grid						
Layout				į.		
Color						
Symbols						
Shape						
Texture						
Motion						
Graphics/Kinetic forms				i i	1	
Audio/Sound						
Photography						
Proportion						
Composition		()			1	
Format					1	1
Rhythm		1		E .		\$
Space						
System						

Matrix Version 2

Anatomy of Information Design Structural Matrix

Categories of Information Design

Components	Alphanumeric	Pictogrammatic	Product Interface	Diagrammatic	Spatial/ Cartographic	Informative/ Explanatory	Hybrids
Line/Rules							
Typography							
Organization System					Í		
(Grid/Layout)							
Color							
Shape							
Texture	1						
Motion Graphics							
(Kinetic forms)							
Audio/Sound						Ì	
Photo/Imagery			1				

Matrix Version 3/Final version

Anatomy of Information Design Matrix

	Alphanumeric Categories	Pictogrammatic	Product Interface	Diagrammatic	Spatial/ Cartographic	Hybrids Explanatory, Informative, Instructional
Components	Calegories					
Dot						
Line/Rules						
Shape						
Texture/ Tone/Value						
Spatial Organization System/Grid						
Typography		ļ				
Color						
Imagery						
Sound						
Motion					1	

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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

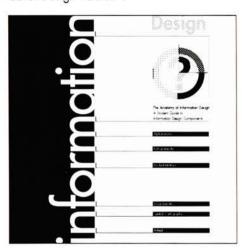


Development of Cover and Symbol

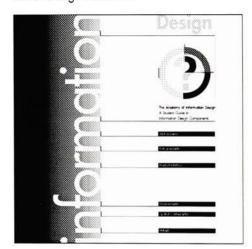
The study guide cover was designed using an altered London Underground map, a landmark in Information Design, by Henry C. Beck. Using this image illustrates the strong relationship between the cover image and title. The early designs for the cover are shown below.

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).

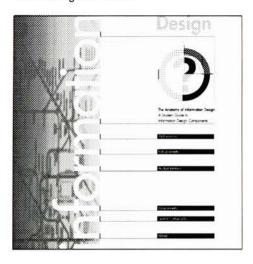
Cover Design Version 1



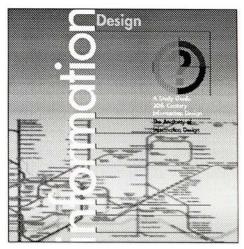
Cover Design Version 2



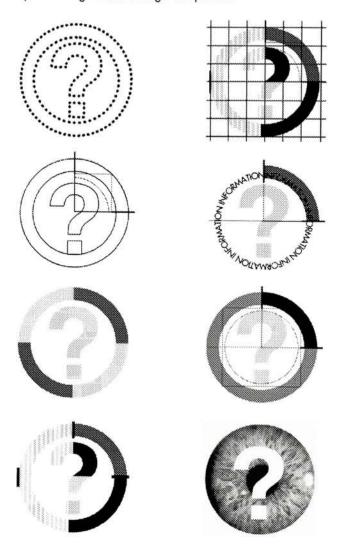
Cover Design Version 3



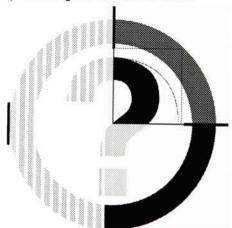
Cover Design Version 4/Final version



Symbol design based on eight components



Symbol design for cover/Final version



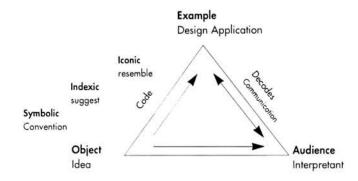
Development of Evaluation Worksheet

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.)

Evaluation Worksheet Version 1

Evaluation WorkSheet

This model provides an objective template for evaluating Information Design using a structure from Semiotic Theory.

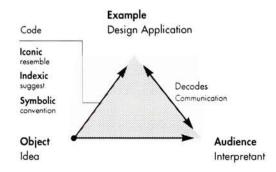


		Alphanumeric	Pictogrammatic	Product Interface	Diagrammatic	Spatial/ Cartographic	Hybrids: Explanatory, Informative, Instructional
Interpretant Matrix Analysis	Examples						
	Signified						
	_ lconic			Č			4
			i				
Signifiers	Indexic					1	
				1			
L	_ Symbolic				l)		
	-			İ			
Three Factors for Function and Use	Syntactic						
	Semantic			Ī			
	Pragmatic						

Evaluation Worksheet Version 2/Final version

Evaluation WorkSheet

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



		Alphanumeric	Pictogrammatic	Product Interface	Diagrammatic	Spatial/	Hybrids:
		Pg	200X		150	Cartographic	Explanatory, Informative, Instructional
Interpretant Matrix Analysis	Examples	PTT Telecom Company signage Bureau Mijksenaar	Deusches Fernsehen Anton Stankowski	Canon EOS brochure 1995			
	Signified	Signage means company.	Logo means company	Brochure explains camera and its parts.			
	— Iconic	Viewer can recognize Building.	Viewer can recognize Typeface and lines.	Viewer can recognize camera and camera parts.			
	Indexic	PTT logo indicates company.	Organic lines show 'vibration' between initials D and F.	Every part points to camera.			
	— Symbolic	PTT symbolizes company logo.	Logo symbolizes company name.	Product symbolizes product name			
Three Factors for	Syntactic	Strong type face PTT size is a hyperbole.	The two initials are communicated.	Images show an elaboration.			
Function and Use	Semantic	PTT logo is legible and clearly communicated.	Organic lines suggest movement.	Camera and its parts show complexity.			
	Pragmatic	PTT logo is an advertisement.	Logo is a symmetry form.	Brochure is an explanatory advertisement.			

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:

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

(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 guidence 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.

	William V. A. Tout	1421201
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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 Designation	gn				
Submitted by: Young Kook Kim	Date: September 18. 1996				
Thesis Committee					
Chief Adviser: R.	Roger Remington				
Associate Adviser: 1. De	eborah Beardslee				
2. Br	uce lan Meader				
Thesis Committee Approva	l:				
	Date:				
Approval, Department Chairperson:					
	Date:				
Computer needs other than word proce	ssing:				
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.

Project Title: The Anatomy of Information Design

Client and address: R. Roger Remington

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Rochester, NY 14623

Designer and address: Young Kook Kim

22-4G Fairwood Dr.

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Rochester, NY 14623

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.

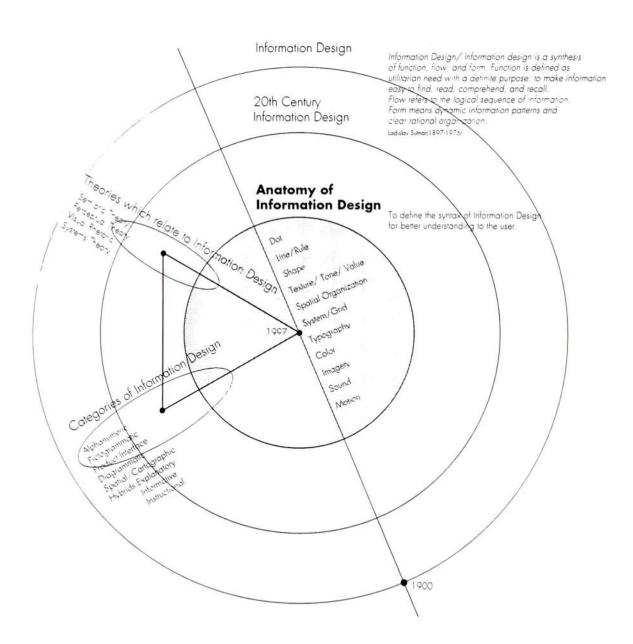
Goal	Objectives	Processes and Strategies
To gather historical and theoretical data about the syntax of Information Design by doing research and analysis on this topic.	To identify and examine the component parts of Information Design.	 To make a bibliography. To do research about the Information Design syntax (Typography/image/layout/color). To recite and sort the historical information in Information Design.
	To examine the history of Information Design. Proportion Composition Format Rhythm Space System Typography Grid Layout Color Symbols Rules Shape Texture Audio/Sound Photo Motion Graphics/Kinetic Form To identify the theories of Information Design.	 To make a bibliography. Gather graphic historical works. To do research about quotes on Information Design. To make a bibliography. To analyze the informational
To define the syntax of	To examine the function of visual	elements. 3. To create a data-base of - Gestalt principles - Perceptual theory - Whole system theory. 1. Analyze and synthesize the
Information Design for better understanding to the user.	elements through resources.	functionality of visual elements. 2. To organize design elements into pragmatics.

3. To examine experimental design

works.

Goal	Objectives	Processes and Strategies
	To do research the visual variables.	To do research about graphic elements of creating resources.
		To create a list of graphic elements and matrices systematically.
To create applications of Information Design which are appropriate to guide the user.	Enable the user to understand the components of Information Design.	 To make videotape lectures which suggest examples of Information Design (slide set).
		 To create a guide book of Information Design vocabulary. (To include index, bibliography)
	Via applications of Information Design, suggest a guideline by which the students may create	To develop graphic resources on the web pages.(HTML)
	Information Design projects.	 To create a practical source which is an interactive application. (multimedia application)
To facilitate a learning module for use in the class, Design History in	The campus learner can take this course and implement messages.	To provide case studies of the components of Information Design.
Cyberspace: 20th Century Information Design.	-	To proffer video lectures and guide book.
	The distance learner conjoins Information Design and interdisciplinary Design Fields.	To construct this learning module on RIT on-line.
To evaluate this module's function and validity to Design History in Cyberspace: 20th Century	To recognize this module's theme of this course.	 To test this module in an undergraduate class (in spring).
Information Design.		To survey formal evaluating methods.
		Analyze and synthesize the gathered test results.
		4. To refine this learning module.
	To be aware of the insufficiency on this topic and continue to add more information.	To add new Information Design that represents better understanding to the user.

Research methodology diagram



Time/Implementation plan

Date	Thesis	Institute calendar	
Sep.5	Research/Analysis	Classes begin	Labor Day
Oct.31	,		Halloween
Nov.5			Election Day
Nov.11			Veterans Day
Nov. 20		Fall/Winter Break	
Nov.28			Thanksgiving Day
Dec.2		Classes Begin(Winter)	
Dec.9	Research Synthesis/Ideation		
Dec. 16	Individual meeting		
Dec.23	Committee meeting 1st		
Dec.21		Holiday Break	
Dec.25			Christmas
Dec.30	Individual meeting		
Jan.1,1997			New Year
Jan.6	Individual meeting	Classes resume	
Jan.9	Individual meeting		
Jan.13	Committee meeting 2nd		M.L.King Day
Jan.20	Individual meeting		
Jan.27	Individual meeting		
Feb.3	Implementation/Refinement		Lincoln Birthday
Feb.10	Individual meeting		Valentine Day
Feb.17	Committee meeting 3rd		Washington Birthday
Mar. 10	Evaluation/Refinement	Classes Begin(Spring)	
Apr.7	Writing thesis report		
Apr. 28	Committee meeting 4th Prepare Exhibition/ Thesis Exhibition/3rd Report approved		
May24	nopon approved	Commencement	

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.

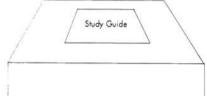
Exhibition Panels

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

Display Methods

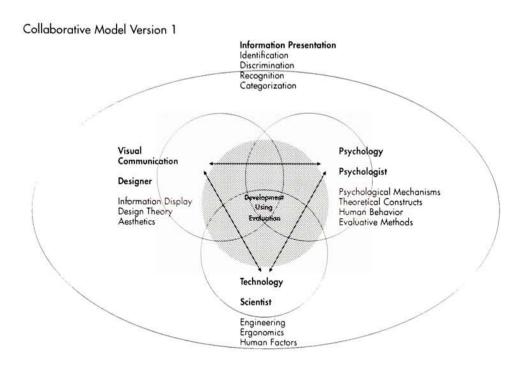
The exhibition panels will be hung on the wall and the study guide will be installed on a platform.

The Anatomy of Information Design	The Anatomy of Information Design Matrix	Study guide cover and spread
Project Description		-
Project Goals		
What is Information Design?		
Research Methodology Diogram		

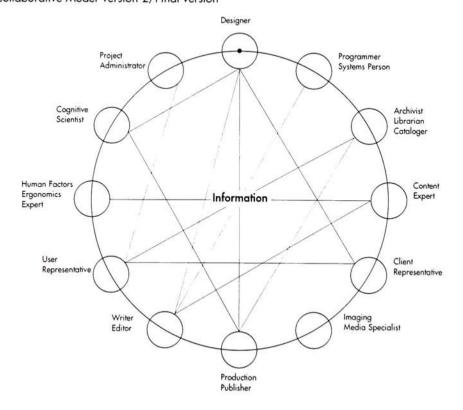


Appendix A 4 A Collaborative Model for Information Design

The Collaborative Model for Information Design is shown in its development and final stages.



Collaborative Model Version 2/Final version



Designed in collaboration with Professor R. Roger Remington.

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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

April 1997

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?



Do the category headings communicate well?



Do the component headings communicate well?



About Evaluation Worksheet

Can you read and understand the diagram on EWS?



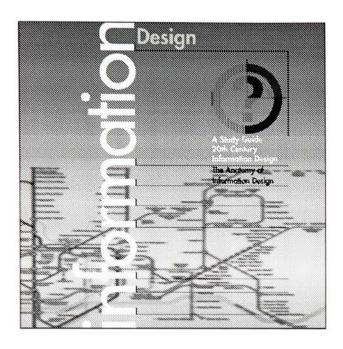
Does this model help you to evaluate the examples?

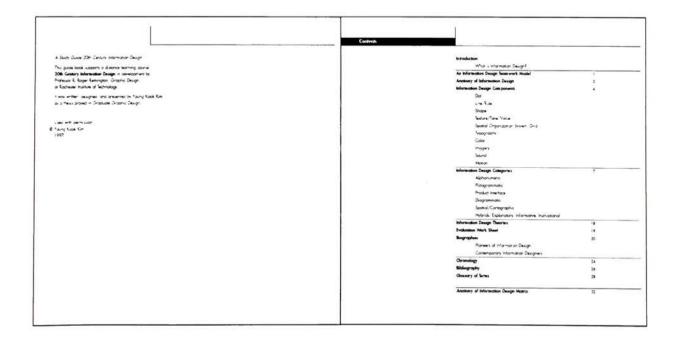


Other Suggestions

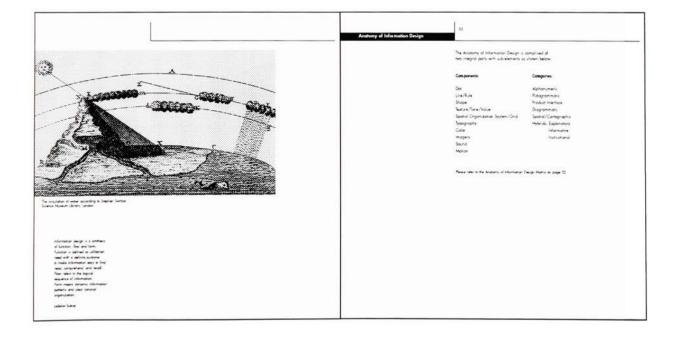
Appendix A 6 The Anatomy of Information Design Study Guide

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.

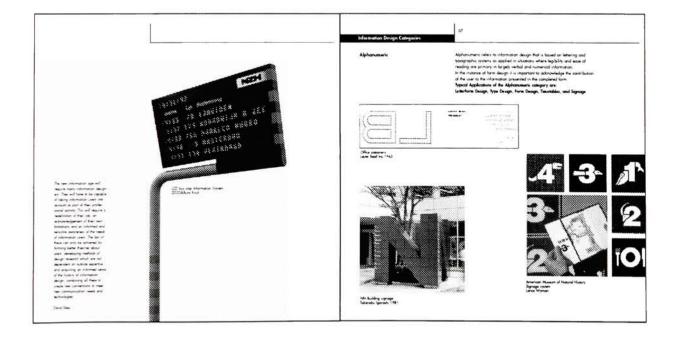


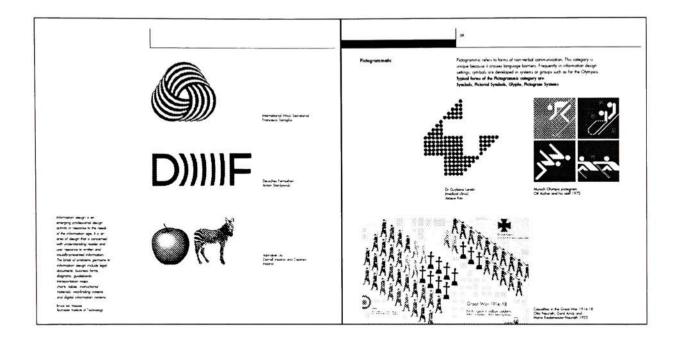


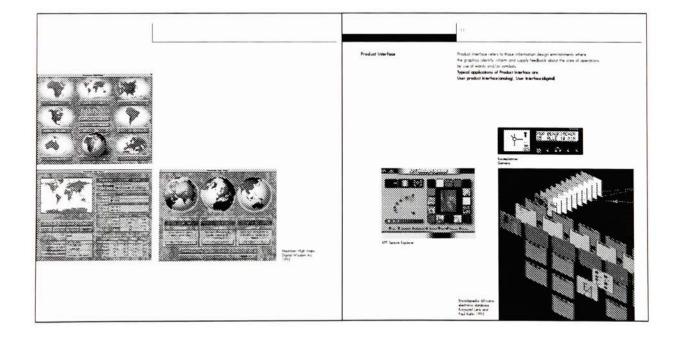
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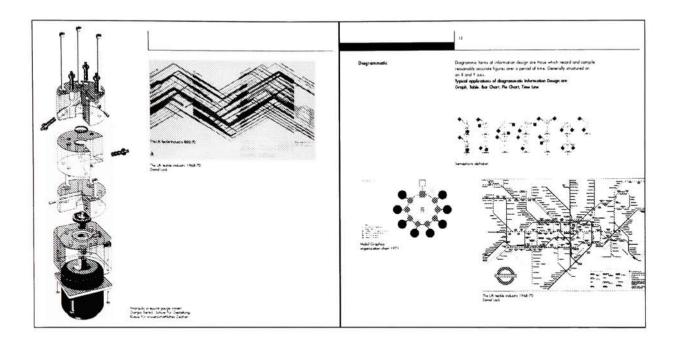


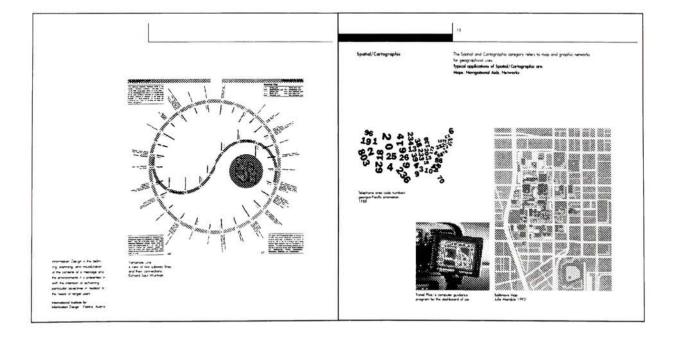
Information Design Companents		os
les	Certification	
Def	A small, single point has enough visual energy to attract the eye and serve as a beginning.	
Lone/Rule	A single stroke of a penaltion a computer mouse! A post is extended as that the dimension of length is principly the torm is called a line. Line is a powerful element that can be employed not only for communication, but also for organization.	
Shope	A shape a concerned with the boundanes of masses. Shape may be since or outer surfaces. Shapes may be combinations of straight lines or planes of current lines or planes, of straight and current lines or planes.	
Texture/Tone/Wakes	A type of organization method in which a quality of even modules are present to repeating a common element. Configuration may be either random or predictable.	
Speakel Organization System. Grid	A structural system or Imprevent for organizing elements within a formal. A grid can be consequently in warrish or physical (in typographic and grid) t can be built upon hypographic, compositional or constitutional bisses. It can be majuliar, imagular or progression on hybrin.	& Annual
hysography	Ananyment and upoclication of type in preconstant for creating application and applied to typewiting produced by any type composition system.	
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- Control	Images contain decorates disatration, such as food patients or other subject matter additional interest is added (symbols, disatrations, phatographs). It effectively convey a concept and mood, usually without the baself of type.	baccharita hope
Sound	Sound give connection to the pictures by suggesting aural information and pharetic unit it must promise claimly and fidelity to unit by the direction of emphasis from the picture demands.	
Motos	A movement and time interest. The absoluting of movement patterns in the film con- ampliant time, as male ampliant apone, it can be increpational to form a imprince, flow and filludity, and his, whether the valued images are amonthe or manimize.	

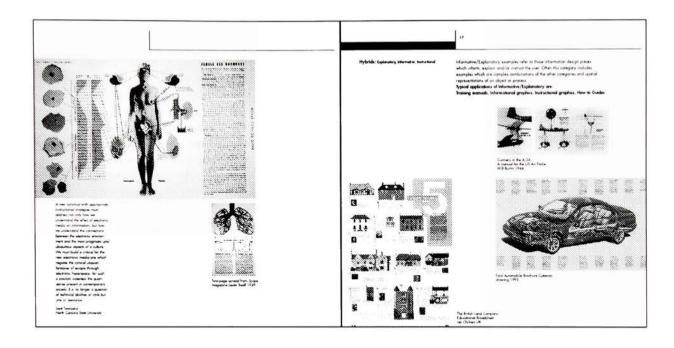


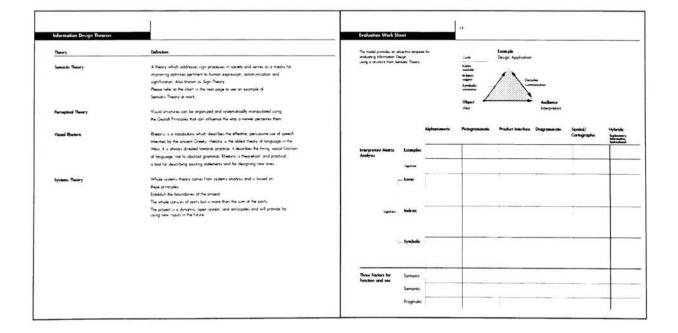












Biographies Discusses of Information Design

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Emergrafie, California, He received his BFA and MFA from Yole
University, and his BA from Princeton University.

Dave Merrill

After earning degrees in Government and Art from the University of
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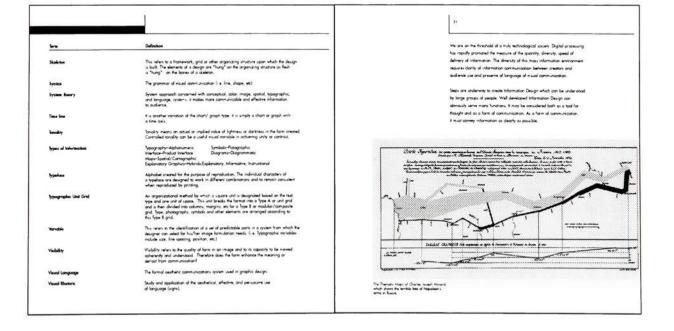
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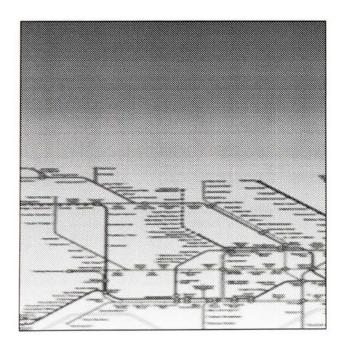
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Tersey Water	Ardigraphia New York Housings House Publishers Inc., 1978		The Visual Display of Quantitative Information, Connecticut Graphics Press, 1983
Histori Cannell L	Geophic Design Processes: Universal to Unique. New York: Van Nostrand Reinhold, 1997.	Wildbur, Pener	Information Graphics. Great Britain: Trefail Publication Ltd., 1999
Halmann, Armin	Graphic Design Manual: principles and practice. New York: Reinhold, 1965		International trademark design. New York, Yon Novironal Reinhold, 1982
Halli, Richard	Graphic Design a Conase History New York Thomas and Hudson Inc., 1993	Wirman, Richard	Information Anxiety New York: Banton Book, 1990
Holmay Nigel	The Best in Diagrammatic Graphics. Switzerland: Ratewison, 1993		**Sow Pages of Learning Resources. Cambridge, Massochuseth, and Landon, England: The MT Press, 1972.
	Designer's Guide to Creating Charts & Diagrams. New York: Watson-Guptill Aubiliation, 1994.		Man-Made Philodelphia. Massachusetts. Combridge Massachusetts and London.
	Rosand Maps, New York: Wasson-Guptill Publication, 1991		England: The M/T Press, 1972
Hurburt, Allen	The Design Concept. New York: Watson-Cupill Publication, 1991	(1)	Information Architects. Switzerland: Graphs Press Corp., 1996
New Goy	Encyclopedia of 20th Cennery Design and Designer: New York: Thomas and Hudson Inc., 1993	Other Aublications	Design Issues, Chicago, Blinois, University of Blinois of Chicago, School of Art and Design
Capel Dyorgy	Sign Image Symbol New York: George Britz Ter. 1966		Information Design Journal, London: Information Design Journal Util.
(,mrgston, Alan and lackella	Encyclopedia of Century Design and Designer New York: Thather and Hudian Inc., 1992		Ysible Language: Cereland Ohio: The Journal.
Noe Morted	Base Preciples of Design, New York: Van Nostrand Reinhold, 1980		
Miller Abbon	Signs and Spaces. Raciport. Raciport Publishers Inc. and Allworth Press, 1994		

Slassary of Terms		1	29.
line :	Definition		
Astelo	Assistance refers to the process by which visual forms a created, utilizing formal visual principles which are directed for a specific purpose and/or massage.	Gnd	A shussingly splan or fromework for organizing elements within a format. A grid can be onceptually a matrix or physical to typographic unit grid, it can be don't spoon typographic, compactificate or constructional beauts. It can be register, employ, employer.
Andogue	Samething using a physical variable, to represent numbers in anthreecal calculations.	1	or progressive in Hythm.
Accience	Audience refers to the receivers of the graphic design image. This may be either individuals or groups to which the message is directed.	Information Design	Information Design can be made to inform, it must be imbased with form and applied to become meaningful information and field to understanding.
Chart, Sabile, Graph	Generally relate to graphics introduced by a and in axis. Chart and table commonly refer to date displayed in column and drove, the date stake the form of discrete interfer than continuous allements, such as reporter, laters, or rytholic. The term graph commonly refer to date increasement for a continuous later or later.	leotype	(heterostorical Systems of Sysographic Pictorial Education). A system of comeying statistical information by means of repeated unit-symbols, and was used in graph form to convey comparative statistics of different elements.
2000 CAT	planted across a grid.	Legibility	Legibility refers to the recognizability or readability of a form in relationship to its purpose and contest. It may be representational, abstract or a point between
Communication	The purpose of graphic design is to locifiate messages and meaning for a purpose.		but it communicates its intended message dearly.
Diagram	A spatial representation of an object or process.	Message	The intended communication outcome of meaning to an outlience.
Digital	A system in which information is represented in the form of changing electrical signals.	Module	Refers to a spatial unit in any organizational method. A module may be regular- las in the Typographic Unit Grad or progressive las in the proportional grad.
Decipine	To become an "expen" in graphic design, one must "pay his filer dues" by hard work, apen mindedness, dedication, and an attitude of always looking for new information.	Perceptual	Parceptual refers to form which is based an appriline considerations such as the Gustat Principles, Visual structures can be considerably arganized and
Esments	The parts, components or variables of form within a formal		systematically manapulated on the Ceutah laws that can influence the way outlience perceive them.
broketon	The mail basic purpose of all graphic design methodology is to develop the knowledge, skills and sensitivities to be able to decide yes or no, in or out in any form or problem: solving skyption.	Proportion	A comparative relationship based on geometric progression
Form	The characteristics that distinguish one would mark from another, including shape, size, ables, and wasters	Proximity:	A Cestalt principle which means that farms which are arranged near each other are perceived as a unified entity.
Down Tr		Residebility	Readability refers to the extent that the image is legible and thereby understandable.
Fereig	The space in which an image lines and works, in determining farmors, the designer needs to be conscious that in its most basic series, the formal is communicating a message by shall.	Shyden	Rhythm refers to a system of frequency for intervals) invalved in form development and communication. It can be regular, integration, progressive or combination.
Ancton	The purpose for which oil graphic design form exists. Fundion means "design flat works," for its intended purpose and now be the difference between art and design.	Semantic	The relationship among signs and symbols and the objects they represent
Countil Proception	A same of perceptual from that were identified by several German psychology at in the early 1900. A version browledge of their largonizational or grouping? Yes allows the graphs designed to make from that takes into allowance the physiological wors for human beings perceive mayor.	Senoto	The shally of signs and the way they work. It addresses sign processes in socially and serves as a means for improving activities pertinent to human supression, communication and signification.



Information Desig	n Matrix					33	
	Aphonemic	Robgromman	Product Interface	Dagranack	Spatial/ Cartagraphic	Hybride Explanatory, Informative, In	trictional
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The Anatomy of Information Design

	Alphanumeric	Pictogrammatic	Product Interface	Diagrammatic	Spatial/Cartographic	Hybrids: Explanatory, Informative, Instructional
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Appendix B 1 Biographies

Biographies/Pioneers and Contemporary Designers of Information Design

Pioneers of Information Design

Otl 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 Lustia

(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 Reidemeister) 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.

Ladislay 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 Druzstevní Práce as design director (1929-39). An early interest in painting and stage design developed into the design of exhibitions during the 1930s. Sutner 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 *Condé 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 Kunstaewerbeschule, 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

Glossary of Terms

Aesthetics The process by which visual form is created, utilizing formal visual principles which are

directed for a specific purpose and/or message.

Analogue A system using a physical variable to represent numbers in arithmetical calculations.

Audience The receivers of the graphic design image; either individuals or groups to whom the

message is directed.

Chart, Table, Graph

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.

Communication 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.

Diagram A spatial representation of an object or process.

Digital A system in which information is represented in the form of changing electrical signals.

Discipline The hard work, open-mindedness, dedication, and willingness to explore new frontiers

required to become an 'expert' in graphic design.

Elements The parts, components, or variables of form within a format.

Evaluation 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.

Form The characteristics that distinguish one visual mark from another, including shape, size,

color, and texture.

Format 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.

Function The purpose for which all graphic design form exists; 'design that works' for its intended

purpose; may be the difference between art and design.

Gestalt Principles A series of perceptual laws that were identified by several German psychologists in the

early 1900's. A working knowledge of these "organizational or grouping" laws allows the graphic designer to create form that takes into allowance the physiological ways that

human beings perceive images.

Grid 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.

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

Typography – Alphanumeric Interface – Product Interface Maps – Spatial/Cartographic

Symbols – Pictographic Diagrams – Diagrammatic

Explanatory Graphics – Hybrids: Explanatory, Informative, Instructional

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 massage 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 arid, or progressive, as in the proportional arid.

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.

Time Line 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.

Tonality 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.

Typeface 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.

Typographic Unit Grid

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.

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.).

Variables

Visibility The quality of form in an image and its capacity to be viewed coherently and understood.

Visual Language The formal aesthetic communications system used in graphic design.

Visual Rhetoric 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.

Appendix B 3 Bibliography

Bibliography

Books

Albers, Josef Interaction of Color. New Haven, Connecticut, and London, England:

Yale University Press, 1975.

Brockman, Josef Müller Grid Systems. New York: Hastings House Publishers Inc., 1981.

Craig, James and Bruce, Barton

Thirty Centuries of Graphic Design. New York: Watson-Guptill

Publication, 1987.

Dondis, Donis A. A Primer of Visual Literacy. Cambridge, Massachusetts, and London,

England: The MIT Press, 1973.

Easterby, Ronald and Zwaga, Harm Information Design. New York, Brisbane, Toronto, Singapore: John Wiley

and Sons Ltd., 1978.

Gerritsen, Frans

Theory and Practice of Color. New York: Van Nostrand Reinhold, 1975.

Gerstner, Karl

The Forms of Color: The Interaction of Visual Elements.

Cambridge, Massachusetts, and London, England: The MIT Press, 1986.

Greiman, April Hybrid Imagery. New York: Watson-Guptill Publication, 1990.

Herdeg, Walter Archigraphia. New York: Hastings House Publishers Inc., 1978.

Hiebert, Kenneth J. Graphic Design Processes: Universal to Unique. New York: Van Nostrand

Reinhold, 1992.

Hofmann, Armin Graphic Design Manual; Principles and Practice. New York: Reinhold,

1965.

Hollis, Richard Graphic Design: a Concise History. New York: Thames and Hudson Inc.,

1993.

Holmes, Nigel

The Best in Diagrammatic Graphics. Mies, Switzerland: Rotovision, 1993.

Designer's Guide to Creating Charts & Diagrams. New York: Watson-

Guptill Publication, 1984.

Pictorial Maps. New York: Watson-Guptill Publication, 1991.

Hurlburt, Allen The Design Concept. New York: Watson-Guptill Publication, 1981.

Julier, Guy

Encyclopedia of 20th Century Design and Designer. New York: Thames

and Hudson Inc., 1993.

Kepes, Gyoray Sian Image Symbol, New York: George Braziller, 1966.

Encyclopedia of Graphic Design and Designer. New York: Thames and Livingston, Alan and Isabella

Hudson Inc., 1992.

Maier, Manfred Basic Principles of Design, New York: Van Nostrand Reinhold, 1980.

Miller, Abbott Signs and Spaces, Rockport, Massachusetts: Rockport Publishers Inc. and

Allworth Press, 1994.

Marcus, Aaron Graphic Design for Electronic Documents and User Interfaces. New York:

ACM Press, 1992.

Modley, Rudolf Handbook of Pictorial Symbols. New York: Dover Publications Inc., 1976.

Rehe, Rolf F. Typography: How to Make it Most Legible, Indianapolis, Indiana: Design

Research Publication, 1974.

Nine Pioneers in American Graphic Design, Cambridge, Massachusetts,

and London, England: The MIT Press, 1989.

Reminaton, Roger Lester Beall, New York and London, England: A Norton Professional Book.

1996.

Ryder, John The Case for Eligibility. London, England: Bodley Head, 1979.

Saint-Martin, Fernande Semiotics of Visual Language, Bloomington and Indianapolis, Indiana:

Indiana University Press, 1990.

Swann, Cal Language and Typography. New York: Van Nostrand Reinhold, 1991.

Tinker, Miles Albert Legibility of Print. Ames, Iowa: Iowa State University Press, 1963.

Tufte, Edward Envisioning Information. Cheshire, Connecticut: Graphics Press, 1990.

The Visual Display of Quantitative Information. Cheshire, Connecticut:

Graphics Press, 1983.

Wildbur, Peter Information Graphics. Wokingham, England: Trefoil Publication Ltd.,

1989.

International Trademark Design. New York: Van Nostrand Reinhold,

1982.

Information Anxiety. New York: Bantam Book, 1990.

Yellow Pages of Learning Resources. Cambridge, Massachusetts, and

London, England: The MIT Press, 1972.

Man-Made Philadelphia. Massachusetts. Cambridge, Massachusetts, and

London, England: The MIT Press, 1972.

Information Architects. Zurich, Switzerland: Graphis Press Corp., 1996.

Remington, Roger and Hodik, Barbara

Wurman, Richard Saul

Other Publications

Design Issues. Chicago, Illinois: University of Illinois at Chicago, School of Art and Design.

Information Design Journal. London, England: Information Design Journal

Ltd.

Visible Language. Cleveland, Ohio: The Journal.

Web Sites

Alben + Faris http://www.albenfaris.com

Dynamic Diagrams http://www.dynamicdiagrams.com
MIT Media Lab http://www.media.mit.edu/~dsmail

Meta Design http://www.metadesign.com
Clement Mok http://www.cmdesigns.com

Nathan Shedroff http://www.vivid.com
Richard Saul Wurman http://www.ted.com
ZIP2 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.

20th Century Information Design

Course Number 3001-300-90

1. Course Communications Data

Name.

Professor R. Roger Reminaton

Office:

Booth (07A) Room 3404

Fmail:

rrrfad@rit.edu

Office Phone:

rrrfad (RIT/VMS)

Fax:

(716) 475-2658 (716) 475-6447

Phone Conference: (see the attached calendar by week) If out of town, call the Office of

DistanceLearning 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 anvone 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 develop 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.

Page 1

DesignArchiveOnline, 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 DesignArchiveOnline 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 (1897-1976)

Target learners

This course is necessarv 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) 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/Harm/Zwaga

Information Design

Herdea

Graphis Diagrams

Monier

How to Lie with Maps

Tufte

The Visual Display of Quantative Information

Tufte

Envisioning Information

Wildbur

Information Graphics

Wurman

Information Anxiety

Wurman

Information Architects

Nadin and Zakia

Creating Effective Advertising Using Semiotics

Sutnar

Visual Design in Action

Megas

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 rrrfad@rit.edu (or rrfad on RIT's Vax/VMS system).

Make certain that you include the course number 3001-300-90 on all messages.

Please send me an electronic mail message sometime during the first week of the quarter. Include in the message your name, your preferred electronic mail address and anything else you want me to know about you and your situation. As electronic mail will be an important means of communications, it is imperative that I know how to reach you.

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% 15%

-Final Exam
-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.

Information Architect

-the individual who organizes the patterns inherent in data, making the complex clear. -a person who creates the structure or map of information which allows others to find their personal paths to knowledge. -the emerging 21st century professional occupation addressing

occupation addressing the needs of the age focused upon clarity, human understanding and the science of the organization of information.

Peter Bradford

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).

Course Plan

20th Century Information Design

Unit 1

Introduction

Module One

Overview of Information Design

Content: Questions:

Course Overview and basis Why is it useful to study design history? From what nt-of-view is this course

designed?

What is Information? What is Deskon?

What is Information Design? What is the role of human factors? What are Important Information Design historical references prior to 20th century?

Format:

Video Intr Video lecture and visuals (RR-BM) None

Assignment::

Explain course project notebook

Discussion Points:

Contempos

Unit 2

Fundamentals Anatomy of Information Design

Module Two Content:

Components that are used in creating

messages

Questions:

Format::

What are components? How are they combined?

What are examples of pioneering Information Design which show anatomy? Who are Information Design pioneers?

Video lecture and visuals (RR) Use course guide book by Y. Kook-Kim

Assignment:: Discussion points:

Conferences:

Module Three

Content:

Categories of Information Design

The vocabulary of Information Design:

Alphanumeric Pictographic Product Interface Diagrammatic Spatial/Cartographic

Hybrids: Informative/Explanatory

Questions:

What are definitions of each type above? What are seminal examples of Information Design that illustrate these categories? Which pioneering designers created them?

When? Where? Video lecture with visuals

Format:: Assignment:: Discussion points:

Conferences:

Module Four Part One:

Evaluating information design Macro view:

Theories that Inform Information Design:

Content:

Identify and present major theories that i nform and influence information Design:

Information theory(Tufte, Wurman)

Aesthetic theory Sign theory

Whole Systems theory Learning theory Human Factors/Eroonomics

Questions:

What are major relevant theories?

What is a theory?

Which theories provide structure for evaluating Information Design? Which seminal examples best illustrate theories?

Which pioneering designers created these designs?

Use support media created by CC+

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

Assignment:: Discussion points: Conferences:

Part Two:

Content:

Questions:

Format::

Page 3

Evaluating Information Design Micro view

Applying theory

Methods and criteria for evaluating offeethie Information Design

What is effective Information Design? What criteria can be used?

Use support media created by CC

What are effective examples? Which pioneers created these examples? Which theories provide structure for

evaluation?

Video lecture and visuals

Assianment:: Discussion points:

Conferences:

Unit 3 Module Five

Part One Content:

Format::

Introduction of Burtin

Case Study

Questions:

Burtin in Germany Who is Will Burtin?

Will Burtin case study

Where did he live and what did he do?

Why is it important to learn about him? How does he and his work fit into the

context of this course? Video lecture and visuals

Video interview with Carol and Robert

Fripp in Toronto Use DesignArchiveOnline

Assignment:: Discussion points:

Contempos

Will Burtin case study

Video lecture and visuals

Part Two Content:

Burtin work in New York Burtin's mature process

Questions:

Format-

Video interview with Carol and Robert Fripp Use DesignArchiveOnline

Assignment:: Discussion points:

Conferences:

Will Burtin case study

Video lecture and visuals

Use DesignArchiveOnline

Video interview with

Application

non-designers

Course Wrap-up

Case Study of Upjohn projects

Carol and Robert Fripp at RIT

The design of Information Design

Information design practice for

Part Three

Content:

Questions:

Format:

Assignment:: Discussion Points:

Conferences:

Unit 4

Modula Six

Content:

Discussion points: Conferences:

Assignment::

Video lecture and visuals

Questions: Format::

Interview with Bruce Meader Course project notebook due

can be made to inform. It must be imbued with form and applied to become meaningful information, leading to under-

The most common

the action of inform-

molding of the mind

or character, training,

instruction, teaching,

the communication of

instructive knowledge.

Information Design

definition of

Information is:

ing: formation or

standing. 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.

Center for Digital Media Office of Distance Learning Rochester Institute of Technology

20th Century Information Design New Course Development

Task Overview

draft 2.6.97

course online development and delivery

internet strategies

research of online tools First Class client software management & organization Cliff Commanday (GGD)

Richard Fasse (ODL)

development of media map & online interactivity

Cliff Commanday (GGD)

supplemental materials

course packet orientation course auide supporting media Cheryl Herdklotz (ETC)

course content Will Burtin case study

content organization timeline development

Roger Remington (F-GGD/CDM)

video: Fripp interview equipment acquisition video shooting

Steve Wunrow (ETC-TV)

interview question development

Roger Remington (F-GGD/CDM)

repurposing archive material photography/slides

transfer to photo-cd Steve Murrow ETC-7.1

copyright clearance Cheryl Herdklotz (ETC)

rit support administration

Pana Antonatti associate VP Academic Computing and User Services

Christina Guith associate director, ETC

Pat Pitkin (WML) director WML

course administration

content development funding/grant proposal

Roger Reminaton (F-GGD/CDM) project director

whole systems management

Cliff Commanday (GGD) assistant project director

coordination with ETC/ODL budget

Sonny Stowe (ODL) project coordinator

course content modules

coordination with CDM Malcolm Spaull (CDM)

Information Design Anatomy module

organization of content development of class materials

info design definition and syntax formulation

Young-Kook Kim (GGD)

part of MFA thesis development

Information Design Evaluation module

organization of content development of class materials theory map formulation

Cliff Commanday (GGD) part of MFA thesis development

Design Archive Online module 2

module designer

Dan Mongeau (ID)

archivist

Kan Horowicz (WML)

cataloging

Sharon Fickeisson(WML)

photography/slides/photoCD

Steve Wunrow (ETC-TV)

database development

Enk Salmela (GD) research assistant

computer systems

Michael Robertson (WML)

modules' graphic identity

Young-Kook Kim (GGD) Cliff Commanday (GGD)

other content material

collecting and organizing media for lectures

Roger Remington (F-GGD/CDM) Cliff Commanday (GGD)

Young-Kook Kim (GGD)

course content

guest speakers

video production Steve Wunrow (ETC-TV)

info design

Bruce Meader (F-GGD)

Carol and Robert

Graduate Graphic Design

F-GGD

faculty in GGD

Undergraduate Graphic Design Wallace Memorial Library

Undergraduate Industrial Design

CDM Center for

Technology Center

Distance Learning

Digital Ne 10

FTC Educational

ODL

Office of

vocab and syntax

on Will Burtin

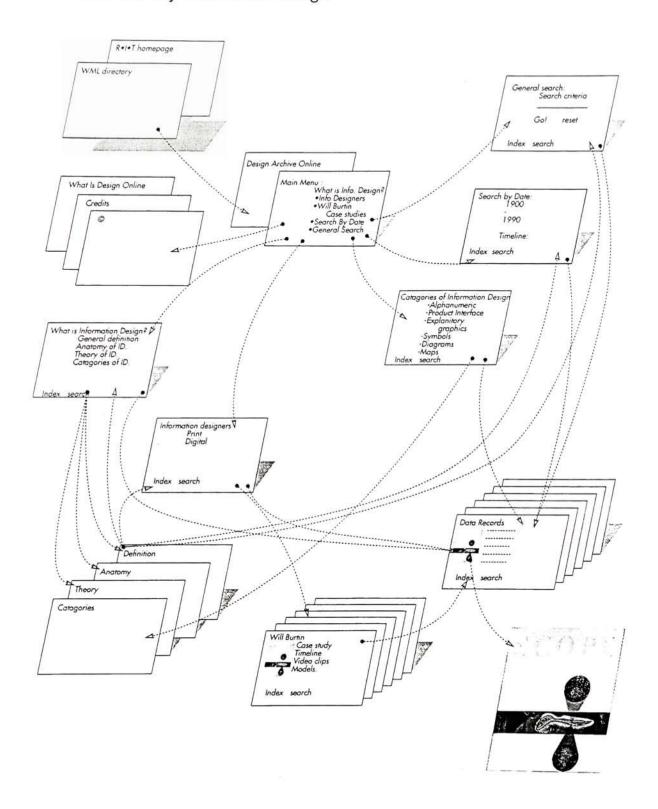
Burtin Fripp

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.

DesignArchiveOnline 20th Century 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.

April 1997

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?

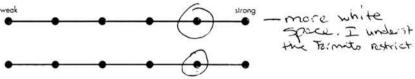
which is the most effective elements in the guide book? I gained from comparing the quetes to your diagrams expecially haster Bootls.

About Anatomy of Information Design Matrix

Can you see and understand the matrix?

Is the use of categories heading communicate well?

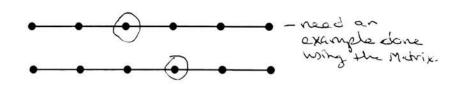
Is the use of components heading communicate well?



About Evaluation Work Sheet

Can you see and understand the matrix?

Does the model help to evaluate the examples?



Other Suggestions

April 1997

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?	, ,
a systematic overview of the components of go	unformat
a systematic overview of the components of grant	V
yes. The chable of contents thelps set the reader	Unto
Is the content order clear? yes. The chable of contents helps set the reader a systematic river of unformation graphics	
which is the most effective elements in the guide book?	
which is the most effective elements in the guide book? — CONTENT Spage — Glossary	
- untient fage - glossary - unatrix	
About Anatomy of Information Design Matrix	
Can you see and understand the matrix?	
Is the use of categories heading communicate well?	
par C'	
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	
72 000	
the cevalulation model is a chille complica	
un clear to tour day of fairs	0
uncleas - try breaking it down as igon	have
the ematrix.	

April 1997

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 thank it was alot of into

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

A first I couldn't is the material

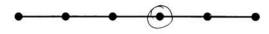
Is the use of categories heading communicate well?

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 reacciple. I think it would also work better 17 you explained the matrix on Paper as well as you explained it in class

India Libert.

Guide book Feedback

April 1997

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, its categories & components The anatomy of

Is the content order clear?

very clear

which is the most effective elements in the guide book?

matrix + the information design compos

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?

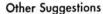
Is the use of components heading communicate well?

About Evaluation Work Sheet

Can you see and understand the matrix? some of more elaborat images get last

Does the model help to evaluate the examples?





April 1997

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 cliar

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?



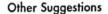
Is the use of components heading communicate well?



Can you see and understand the matrix?



Does the model help to evaluate the examples?



April 1997

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

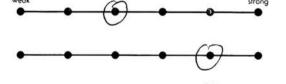
Is the content order clear?

yes

which is the most effective elements in the guide book?

About Anatomy of Information Design Matrix

Can you see and understand the matrix?



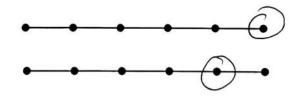
Is the use of categories heading communicate well?

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

April 1997

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 Italian the Design Components should be defore 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

April 1997

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?

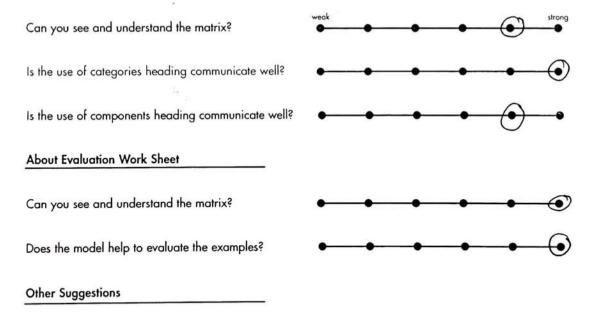
I think the guide back is a well organized back, and be information which it includes to be very heipful. Is the content order clear?

yes, I had no problem in understanding the information.

which is the most effective elements in the guide book?

The definetion followed by the examples provided.

About Anatomy of Information Design Matrix



April 1997

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 auidebook

What do you think is the guide book content?

The components and basic theories of communication derign

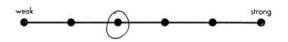
Is the content order clear?

which is the most effective elements in the guide book?

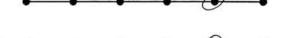
layout of text with images: hierarchy of elements

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

Shossay of Jeuns is an excellent idea. Very practical. The same about Diographies at the end. Short idea! Everything is very clear + legible. The images in the anatomy of design Matrix are unclear because of size + output quality.

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(room number 3510, Young Kook Kim)

Content Communication in the guidebook

What do you think is the guide book content?

the history of information design

Is the content order clear?

which is the most effective elements in the guide book?

About Anatomy of Information Design Matrix

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Is the use of categories heading communicate well?

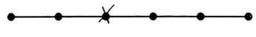


Is the use of components heading communicate well?



About Evaluation Work Sheet

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Does the model help to evaluate the examples?



Other Suggestions