Designing for Situations of Elevated Stress

Graduate Graphic Design Master of Fine Arts Program

School of Design College of Imaging Arts and Sciences Rochester Institute of Technology

A Thesis submitted to the Faculty of the College of Imaging Arts and Sciences in candidacy for the degree of Master of Fine Arts

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Abstract

This graduate thesis project examined the importance of information design in the context of problems where stressful situations can compromise the function of design solutions to communicate messages clearly and effectively.

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Problem Statement	People are constantly acquiring new information in different situations, such as noisy or crowded places, which cause stress. Some information, such as that of a magazine, is read in comfortable environments where readers have time to enjoy and understand what they are reading. In other instances, such as a situation where there is potential for danger and a warning is required, reading occurs when people are in a heightened state of emotional stress. This thesis defines specific requirements for graphic designers to develop effective solutions based on the kinds and degrees of stress for their target audiences.
Documentation of Need	In the past, this designer developed many advertisements with a focus on persuasion. The research in this thesis involved informing and educating the user through the application of graphic design principles to meet the special needs of audiences under stress. The outcome of this thesis will contribute to the graphic design field because it provides guidance for other designers who need to develop the most effective solutions for these special audiences. This thesis helps to encourage design solutions that reduce people's inconvenience, confusion and stress.
Situation Analysis	Information design must satisfy the needs of a variety of users and address specific functional problems. Designers have to make decisions and design different solutions for each individual situation. For example, a pilot will be concerned with many more dangers and needs to decipher and control many switches and gauges, and will be under greater pressure than that of an automobile driver. The designer must be prepared to address a wide range of contexts, circumstances and influences as part of their problem-solving.
Mission	Although there are many different ways to define users' circumstances, this thesis is focused solely on stressful situations. This thesis develops ideas to aid existing graphic design practices that currently may not take aspects of user stress into consideration. This thesis attempts to address the needs of people with higher levels of stress and helps graphic designers gain a better understanding of the needs that people under stress have.

Goals	The primary goal of this thesis study is to develop specific graphic design requirements for visual communication in stressful situations. These stressful situations could be Unfamiliar content, Message complexity, Time pressure, and Crisis situation. The secondary goal is to systematically evaluate what design considerations work best for users, based on previous case studies. This thesis will serve as a model for other graphic designers to address communication problems where user stress is a critical issue and to suggest design solutions that can reduce stress.
Objectives	This thesis proposes design solutions that correspond with the user's emotional state. One design goal was to develop solutions that relax the user so they are better able to understand the information that is being presented to them. Considering this goal, it is essential to first identify and categorize situations where information needs to be communicated under stressful circumstances. Then, based on the specific situation (what kind of information and user stress), this designer will evaluate and gather design solutions from appropriate case studies. Lastly, through the final application, this designer will show what kinds of design solutions are most effective to use in stressful situations.
Processes and Strategies	This thesis categorizes and diagrams stress based on particular situations and how people behave during extreme circumstances. Researching categories of information (Property, Principle, Procedure, and Process) is a first step to the scope of this thesis. Then, based on this first step, selected case studies for each category will be identified to give clues about how past designers improved design solutions by comparing how the designs evolved over time. Finally, analysis of successful design applications in terms of design elements (typeface, size, color, etc.) could suggest solutions that are the most appropriate to use when communicating to people under stress.
Thesis Applications	The final design application for this thesis is to provide accurate information to the general public for a stressful situation. To address this problem, this designer chose to redesign the anti-choking poster, which was designed by the American Red Cross in 2001. This application is fitting for the thesis because the anti-choking poster is found in many public areas (and is required in most restaurants), and the information that needs to be communicated will likely be referred to when a victim is choking, which certainly qualifies as a stressful situation. The final application was influenced by results that were discovered in the design solutions of the four different case studies.

Goals	Objectives	Strategies	
Identification of Stressful Situations	1 Categorizing and scoping	Classifying stressful situations Unfamiliar content Message complexity Time pressure Crisis situation Environment Disability Emotional problem	
	2 Researching relevant studies	 Examining existing case studies Situation awareness Situation analysis Interviewing experts Evaluating case studies involving stressful situations 	
	3 Identifying the characteristic of designs (unique & common)	 Making a chart based on the design requirements Type (size, typeface, weight, and casting) Visual characteristics (shape, lines, color, and illustration) Layout (alignment, margin, repetition redundancy, and structure) 	
Defining Meaning of Information	1 Categorizing subjects	Classifying informationBy meaningBy cognitive frictionBy relation with user	
	2 Scoping range	Defining existing applications	
Development of Specific Design Requirements for Stressful Situations	1 Defining design requirements	Researching design requirementsBy typeBy colorBy negative space	
	2 Researching relationships	Measuring combinations	
	3 Applying existing examples	Evaluating previous research data	

Goal Objectives		Strategies	
Designing a final application that incorporates design	1 Selecting final application	Use of mind-mapping and brainstorming	
users based on case studies	2 Designing final application based on research	Classifying stressful situations	
	3 Evaluating the final system	Usability testing and survey	
Evaluation of the Entire Project	1 Evaluating the entire project with thesis members	Gathering and discussing feedback to refine the final project	
	2 Designing a final application and printing the final document	Designing final refinements of the application based on evaluations and print the final thesis report	
Goal 1. How can you	deliver information u	nder specific condition?	
Object 1. Simplify	complex information		
• 0	sīng easy words → les □ B	sen the confusion.	
۰۵)tviding sections - B	y symptoms	
	- B	y problems	
• 0	Ising appropriate illustrations	y solutions	
• 0	that is possible solution	n?	

1-1 Brainstorming goals, objectives, and strategies



1-2 Brainstorming goals, objectives, and strategies

· Stimplefy complex information	symbols Thurtrations	- celer conding
	Easy words	- lessen the confliction
	Dividing Sections	- by sound , by symptoms
· Ritaritizing the problem <	Reserved existing manuals	y warring signals
	Survey	
· Charting out the symptom -	making a flawshart	

2 Brainstorming goals, objectives, and strategies



Designing an application that can evaluate what design elements work best for users based on case studies

Testing to use forms (validation or verification tests, comparison tests)

Precedent 1 Information Anxiety 2

Wurman, Richard Saul. 2000. *Information Anxiety2*. Pearson Education; 1st edition.

INFORMATIONANXIETY2

A decade after the publication of what has become a cult guidebook to understanding, Richard Saul Wurman, in this expanded & updated volume, gives clarity to confusion with new maps for navigating through a stream of bytes which leave us inundated

Precedent 2 Graphic Design and Reading

Swanson, Gunnar. 2000. *Graphic Design and Reading–Explorations of an Uneasy Relationship.* Watson-Guptill Publications.



Richard Saul Wurman, in his book *Information Anxiety*, was one of the first people to raise public awareness about information design issues and their effect on the world. Wurman said, "As information technology matures, the focus will turn away from the machines themselves toward the information itself. The value of the technology lies only in its ability to manage and exploit the product-information." (Information Anxiety 2 297)

The follow-up to the 1st edition, *Information Anxiety 2* shows examples of important lessons for functioning in today's information age. Wurman examined how the Internet, desktop computing, and advances in digital technology enhanced access to information and changed the way we live and work. Wurman analyzed how technological advances can hinder understanding and create anxiety in the user. *Information Anxiety 2* could be a principal text for graphic designers because Wurman's works explain how to transfer important information to specific people, not just general groups. This book has importance for this designer's thesis because it can offer guidance on how to deliver information for targeted audiences.

Graphic Design and Reading is a collection of essays written by graphic designers and edited by Gunnar Swanson, a graphic designer, media designer, writer, and educator who has won over a hundred awards for his work in graphic design in such areas as publications, type, and packaging. The book follows a theme on the relationship between reading and graphic design. Most of these essays focus on how readers respond to design and what impact it has on their ability to understand and accurately interpret the message. For example, in book design, a book that is likely to be read in low light might call for better contrast or larger type than one that would be read in bright light. A devotional book might be held particularly close and given full attention, while an auto repair manual might be read at some distance while the reader struggles with mechanical adjustments, requiring larger type in the latter.

Precedent 3 User-Centred Graphic Design

Frascara, Jorge. 1997. User-Centred Graphic Design: Mass Communication and Social Change. CRC Press.



This book details the important contributions that visual communication can have on society. It gives examples of successful socially-oriented projects, showing the human and economic benefits that occur through good communication design. This book also focuses on a user-centered approach to design and includes a new profile for the graphic designer that involves the complex cultural, psychological and often political issues that affect daily communications. This book is useful because it shows how user-centered design can help with projects and develops the best results for specific user groups. Frascara says, "Cognitive strategies and abilities and cultural value systems vary depending on several factors, including environment, age, education, personal skills and occupation. It is evident therefore that the production of visual communications cannot ignore the specific characteristics of the public to be addressed." (User-centred Graphic Design 4)

Precedent 4 The Gallery of Stick-Figure Warning Signs

Smith, Toren. 2003. *The Gallery of Stick–Figure Warning Signs*. http://www.cs.utexas.edu/users/tbone/ warningsigns/index.html



This site shows examples of many forms of pictography, the science of conveying information without assuming any prior knowledge. A good stick figure warning sign should be immediately recognizable in its message, even if the viewer is not familiar with the language that is used in the warning sign. This site has impact on the thesis, because every example delivers concise messages without the need for extra text or verbal information. It demonstrates which elements are important and which elements can be left out when conveying messages for times of urgency or great importance.

Information to be conveyed generally falls into either of two categories:

Introduction of Information

Information to be conveyed generally falls into either of two categories: cautionary or explanatory. Cautionary information is of a critical nature (warning signs and traffic signals) where explanatory information is less critical and not mandatory to be seen (nutrition information and fire extinguisher instructions). This designer will explore these two kinds of information, their contexts, and explore the requirements necessary to achieve effective solutions.

Definitions

Information

- Knowledge derived from study, experience, or instruction.
- Knowledge of specific events or situations that have been gathered or received by communication (verbal and non-verbal); intelligence or news.
- A collection of facts or data: statistical information.
- The act of informing or the condition of being informed; communication of knowledge.
- Processed, stored, or transmitted data. (Computer Science)
- Information is used to caution, inform, explain, direct, clarify, distinguish, illuminate, illustrate and educate.

Dictionary.com http://www.dictionary.com, Date accessed: March 2005

Information Design 319

Classifying Information	• Property:	A description or explanation of something. This can be a definition, fact, picture, concept, drawing, specification, etc. Example: restroom sign
	• Principle:	Rules, laws, or guidelines, policies, assumptions, etc. Example: formula of math
	• Procedure:	What you actually do: a set of steps or tasks that one person takes to achieve a specific result. Example: addressing a specific part of the vehicle such as changing a car tire
	• Process:	What happens: a series of events that takes place over time. A process involves multiple things happening and usually more than one person. We often think of this as the 'big picture.' Example: assembling a vehicle
	Information http://www Date access	Design for the World Wide Web washington.edu/webguides/design.class/infotype.html ed: December 2004
Categorizing Information		
	Informatior Example: w	n to be found ayfinding, map

Information to warn Example: warning sign, traffic signal



Sequential information Example: car manual, ATM



One method of categorizing information

Narrowing the Scope

While deciding the range of information for this thesis study, the designer decided to focus on two kinds of information: Procedure information and Process information. These were chosen because they usually contain secondary information and sub categories. When working with artifacts that contain these forms of information, designers have a lot of opportunities to reduce the users' stress. However, if the designer does not fully understand the content or makes the wrong design decision, many problems can result for users. For instance, Alan Cooper, author of *The Inmates are Running the Asylum*, mentioned that the accident of American Airlines Flight 965 was not the pilot's fault at all. The plane's computer provided insufficient information and lacked proper warning indicators. Because of this lack of foresight in design the end result for the users was disastrous.

The Inmates Are Running the Asylum 3

Research



Introduction of Stress

Although most designers are concerned about their target users when they design their projects, many do not appropriately consider the kind of stress their users experience when using their designs. Almost everyone's ability to think and act clearly is hindered when under stress. For example, immediately after a traffic accident, a driver may need to change a flat tire. She/he may try to use the owner's manual and find it difficult to follow; the writing may seem too complex or doesn't clearly describe their situation. On the other hand, the same person reading the manual without the stress the accident caused would more likely easily understand what the manual describes. So, designers, in general, should consider in what environment and state of mind a user may be, prioritize information that will be important to their situation, and design accordingly.

Definitions

Stress

- A physical, chemical, or emotional factor that causes bodily or mental tension and may be a factor in disease causation
- A state of bodily or mental tension resulting from factors that tend to alter an equilibrium
- A state of extreme difficulty, pressure, or strain
- A physical or psychological stimulus that can produce mental tension or physiological reactions that may lead to illness

Wikipedia http://en.wikipedia.org/

Dictionary.com http://www.dictionary.com, Date accessed: March 2005

Classifying Stressful Situations	This designer focused on key issues of stress, such as when people usually experience stress, why stress occurs, and what kinds of situations may cause stress. After this analysis it was discovered that these kinds of stressful situations could be divided into seven categories:
	Unfamiliar Content Information that causes stress because it is rarely seen by the user (Election ballot)
	Message Complexity Information that is more difficult to understand because of its highly technical or non-systematic use of language and ideas (Computer manual, IRS tax form)
	Time Pressure Stress that is caused in situations where the user has a lack of time (Train schedule)
	Crisis Situation Extreme situations that could potentially be dangerous or harmful to those involved (House fire, earthquake)
	Emotional Situation A circumstance where the person involved is negatively influenced by their current feelings (Surgery form)
	Environmental Problem A situation where the location of the area adds to the users' stress (LCD monitor used outside on a sunny day)
	Physical Problem Conditions where an individual's abilities are limited for the specific situation (Left-handed person with right-handed scissors)
	Although these seven categories cover all areas of stress, the environmental problem and physical problem sections were removed from the list because their specific characteristics are very different from the other categories. Both environmental and physical problems require more than just visual communications to adequately deal with these problems. Specifically, these problems require industrial design solutions in addition to visual communications to alter human behaviour such as recycling bins, wheelchairs, etc. In order to narrow the scope of this thesis and focus on stressful public situations that require visual communications to solve the problem, these two categories of stressful situations will be removed.

Narrowing the Scope

For the purpose of this thesis study, four of the categories of stressful situations were selected as areas of focus. These selections were: Unfamiliar content, Message complexity, Time pressure, and Crisis situation. Choosing these four areas out of the seven available was done to eliminate the additional variables of personality and cultural understanding.

Categorizing Stressful Situations

- Crisis
- Time
- Environment
- Emotion
- Disability
- Familiarity
- Message complexity

Measuring Stress in Case Studies

• Election Design Familiarity Critical	Crisis Time Emotion Familiarity Message complexity	
Informed Consent Emition Critical	Crisis Time Emotion Familiarity Message complexity	1 3 5

Brainstorming of categorizing and measuring stressful situations

Introduction

To further understand what kinds of design are most effective for different stressful situations, this designer researched existing successful design projects. The main focus was to find and understand different case studies that solved specific stressful situations for their users. The four case studies that were used are Marcia Lausen's US election ballot form (2002), Siegel & Gale's tax form (1980), Joshi's timetable (1996), and the American Red Cross choking poster (1986).

Unfamiliar Content

Case Study: 2002 US Election Ballot, Marcia Lausen

The redesign of the existing voting form is provides a useful example of unfamiliar content because people usually only see this form once a year (or less in some cases). For this case study, Marcia Lausen and her team successfully improved the butterfly ballot form.

Message Complexity

Case Study: 1980 IRS 1040 Tax Form, Siegel & Gale

The IRS 1040 tax form is a good example for message complexity because this form has many questionnaires in single page, and uses technical words. Siegel & Gale redesigned this form with significant changes.

Time Pressure

Case Study: 1996 Train Timetable, Yateendra Joshi

People are usually uncertain in front of train schedules because they have to match the specific train to their schedule as soon as possible. Joshi showed other design possibilities in this project.

Crisis Situation

Case Study: 1986 Choking Poster, American Red Cross

The choking poster can play an important role for people when someone else is choking. Since someone's life is in danger in this kind of situation, it is very likely that the helper will have difficulty remaining calm and therefore will have more difficulty following the directions of the poster. The American Red Cross has been updating and improving this choking poster up to present day.

By comparing older and newer designs, this designer determined how the designs were improved across the four case studies. Based on this analysis, the designs were evaluated by type (size, typeface, weight, and casting), visual characteristics (shape, line, color, and illustration), and layout (alignment, margin, redundancy, and structure). Then, this designer analyzed what was similar among the case studies, and identified which design elements were the most beneficial in the design.

Case Study 1 Unfamiliar Content 2002 US Election Ballot, Marcia Lausen

JUDICIAL RETENTION - CIRCUIT COURT (RETENCION JUDICIAL - CORTE DE CIRCUITO) JUDICIAL RETENTION - CIRCUIT COURT (RETENCION JUDICIAL - CORTE DE CIRCUITO) G Shall CAROLE KAMIN BELLOWS Conteria CAROLE KAMIN BELLOWS YES 229 → • Otheria KATHY M. FLANAGAN + 230 YES SHI KATHY M. FLANAGAN ser reterida en su puesto como JUEZ DE LA CORTE DE CIRCUITO, DIRCUITO JUDICIAL DEL CONDADO DE CODK? • be retained in office as JUDGE OF THE CIRCUIT COURT, COOK COUNTY JUDICIAL CIRCUIT? ser rebelida en su puesto como JUEZ DE LA CORTE DE CIRCUITO, CIRCUITO JUDICIAL DEL CONDADO DE COOK? be retained in office as JUDGE OF THE CIRCU COURT, COOK COUNTY JUDICIAL CIRCUIT? • NO 231 > + 232 NO ٠ Shat DAVID G. LICHTENSTEIN "Onterra DAVID G. LICHTENSTEIN ser referido en su paeste como JUEZ DE LA CORTE DE CRICUTO, CIRCUITO JUEICIAL DEL CONDADO DE COOK? YES 233 → + 234 YES Sul CURTIS HEASTON Conteria CURTIS HEASTON . be retained in office as JUDGE OF THE DIRCUIT COURT, COOK COUNTY JUDICIAL CIRCUIT? preserva CONTRO MENOTOM ser referido en su puesto como JUEZ DE LA CONTE DE DIRCUITO, CIRCUITO JUDICIAL DEL CONDADO DE CODA? DR HEARED IN UTICA AS JUDGE OF THE CIRCU COURT, CODK COUNTY JUDICIAL CIRCUIT? NO 235 -> • ← 236 NO • Shat MICHAEL J. HOGAN Orberta MICHAEL J. HOGAN YES 237 → + 238 YES Dut MICHAEL J. KELLY MICHAEL J. KELLY Ser referido en su puesto como JUEZ DE LA CORTE DE GIRCUITO, DIRCUITO JUDICIAL DEL CONDIADO DE COOK? be retained in office as JUDGE OF THE CIRCUIT COURT, COOK COUNTY JUDICIAL CIRCUIT? ser referido en su puesto como JUEZ DE LA CORTE DE CIRCUITO, CIRCUITO JUDICIAL DEL CONDADO DE CODR? THE DROUT • te retained in office as JUDGE OF THE DIRD COURT, COOK COUNTY JUDICIAL DIRCUITT NO 239 > + 240 NO • YES 241 → Onteria ALAN J. GREIMAN that ALAN J. GREIMAN + 242 YES SHI JOHN E. MORRISSEY Orteria JOHN E. MORRISSEY te retained in office as JUDGE OF THE CIRCUIT COURT, COOK COUNTY JUDICIAL CIRCUIT? ser retenido en su puesto como JUEZ DE LA CORTE DE CIRCUITO, CIRCUITO JUDICIAL DEL CONDADO DE COOK? • ter retenido en su puesto como AUEZ DE LA CORTE DE CIRCUITO, CIRCUITO JUDICIAL DEL CONDADO DE COOKY be retained in office as JUDGE OF THE CIRCUIT COURT, COOK COUNTY JUDICIAL CIRCUIT? • NO 243 > € 244 NO • YES 245 → Shat MARY MAXWELL THOMAS Orderia MARY MAXWELL THOMAS + 246 YES SHI RONALD C. RILEY Onteria RONALD C. RILEY be retained in office as JUDGE OF THE CIRCU COURT, COOK COUNTY JUDICIAL CIRCUIT? ser reterida en su puesto como JUEZ DE LA CORTE DE CIRCUITO, CIRCUITO JUDICIAL DEL CONDADO DE CODK? ser retenido en su puesto como JUEZ DE LA CORTE DE CIRCUITO, CIRCUITO JUDICIAL DEL CONDADO DE COOK7 OF THE CROUT • NO 247 > COURT, COOK COUNTY JUDICIAL CIRCUIT? € 248 NO YES 249 → Shat FRANCIS BARTH Onterio FRANCIS BARTH Others FRANCIS X. GOLNIEWICZ + 250 YES Shall FRANCIS X. GOLNIEWICZ ter retenda en su puesto como JUEZ DE LA CORTE DE ORCUITO, ORCUITO JUDICIAL DEL CONDADO DE COOK? te retained in office as JUDGE OF THE CIRCUIT COURT, COOK COUNTY JUDICIAL CIRCUIT? be retained in office as JUDGE OF THE CIRCUIT COURT, COOK COUNTY JUDICIAL DIRCUIT? ser referida en su pueste corre JUEZ DE LA COATE DE CIRCUITO, CIRCUITO JUDICIAL DEL CONDADO DE CODK? NO 251 → € 252 NO • YES 253 → **Otheria STUART ALLEN NUDELMAN** Shat STUART ALLEN NUDELMAN ← 254 YES Shat MOSHE JACOBIUS MOSHE JACOBIUS be retained in office as JUDGE OF THE CIRCU COURT, COOK COUNTY JUDICIAL CIRCUIT? ser retenido en su puesto como JUEZ DE LA CORTE DE CIRCUITO, CIRCUITO JUDICIAL DEL CONDADO DE COOKT ser retenido en su puesto como JUEZ DE LA CORTE DE CIRCUITO, CIRCUITO JUDICIAL DEL CONDADO DE CODIX7 be retained in office as JUDGE OF THE CIRCUIT COURT, COOK COUNTY JUDICIAL CIRCUIT? NO 255 > + 256 NO

2000 Butterfly Ballot Form before Marcia Lausen's revision

2002 Marcia Lausen's Redesigned Form

JUDICIAL RETENTION CIRCUIT CO RETENCION JUDICIAL CORTE DE CIRC	DURT		G
	Carole Kamin Bellows	$\begin{array}{c} \text{YES} 229 \rightarrow \\ \text{NO} 230 \rightarrow \end{array}$	RETENCION JUDICIAL CORTE DE CIRCUITO
vote yes or no			● ← 231 YES Kathy M. Flanagan
vote si o no	David G. Lichtenstein	$\begin{array}{ccc} \text{YES} & 233 \rightarrow \\ \text{NO} & 234 \rightarrow \end{array}$	vote yes or no voto si o no
YES: Retain			 ← 235 YES ← 236 NO Curtis Heaston
the candidate in office as Judge of the Circuit Court,	Michael J. Hogan	$\begin{array}{ccc} \text{YES} & 237 \rightarrow \\ \text{NO} & 238 \rightarrow \end{array}$	
Cook County Judicial Circuit.			
YES: Retenga al candidato en su puesto	Alan J. Greiman	$\begin{array}{ccc} \text{YES} & 241 \rightarrow \\ \text{NO} & 242 \rightarrow \end{array}$	
Circuito Judicial Del Condado De Cook			
NO: Don't retain	Mary Maxwell Thomas	$\begin{array}{c} \text{YES} 245 \rightarrow \\ \text{NO} 246 \rightarrow \end{array}$	
the candidate in office as Judge of the Circuit Court,			$\leftarrow 247$ YES Ronald C. Riley
Cook County Judicial Circuit.	Francis Barth	$\begin{array}{c} \text{NO} 249 \rightarrow \\ \text{NO} 250 \rightarrow \end{array}$	
NO: No retenga al candidato en su puesto		VEC 252 ->	Francis X. Golniewicz
como Juez De La Corte De Circuito, Circuito Judicial Del Condado	Stuart Allen Nudelman	NO 254 →	If you spoil your ballot, ask the judge for a new one.
De Cook.		VES 257 ->	C 256 NO Moshe Jacobius Si usted dana su balota, pidale una balota nueva al Juez.
	Edward R. Burr	NO 258 →	← 259 YES
		YES 261 →	← 260 NO Stuart F. Lubin
	Barbara J. Disko	NO 262 →	Voltee la página para continuar Voltee la página para continuar voltado
Official Ballot Balota Oficial			● ← 264 NO Marvin P. Luckman

Problem Statement

People can easily become stressed when they are voting because ballot forms are unfamiliar to most people. Because of this, ballots must be very carefully designed. A disorganized ballot suggests a disorganized election division. Election officials want ballots that provide clear information-to avoid frustration and mistrust on the part of their constituency. Voters want ballots that are easy to understand so they can be confident they have voted as intended, and that their vote is counted.

AIGA design for democracy http://designfordemocracy.aiga.org Date accessed: December 2004

2000 Butterfly Ballot Form detail



Weak Decisions

- ¹ Punch holes are not sequential. 'Yes' votes on left alternate with 'Yes' votes on the right.
- ² Candidates' names are difficult to read in condensed type and all capital letters.
- 3 Information is needlessly repeated multiple times on each page

2002 Revised Design Solution

Strong Decisions

- Legible typography
- Defined alignment
- Appropriate size margin
- Graphic element and shading



Lowercase letters group to form irregular shapes, which readers use to quickly and accurately identify words.



In centered alignment, the position of the beginning of each new line is inconsistent and unpredictable.

Analysis	Marcia Lausen and her team redesigned the 2000 ballot design system. The repetitive language is removed by placing instructions in a designated area. The yes and no votes for each candidate are tightly grouped. Candidates' names are presented in a larger, bolder, more legible typeface. Graphic devices and shading are used to connect each name with corresponding punch locations.
About Marcia Lausen	Marcia Lausen is the director of the School of Art and Design at the University of Illinois at Chicago where she has taught graphic design since 1994. In addition to her role at UIC, Marcia is one of the founders of Studio/lab serving as creative director of the Chicago office.
	AIGA (American Institute of Graphic Arts) http://www.aiga.org, Date accessed: March 2005

Assessment

This designer identified the different design elements that were used in the old and new versions of each ballot forms. And, using a matrix, analyzed the differences between them. This matrix is used to show where significant changes occurred in each of the applications. The design elements can be divided into three major sections (typographic decisions, visual characteristics, and layout), and each of these sections have their own specific attributes. The results found in the matrix are applied to the final application.

2000 Butterfly Ballot Form

2002 Marcia Lausen's Form

Туре		
Sizes	4	2
Typefaces	Arial (Sans Serif)	Univers 65 (Sans Serif)
Weights	4	2
Casing	All Capitals	Upper & lower case
Visual Characteristics		
Shape	None	Oval shapes used to distinguish elements
Line	Straight line used to distinguish elements	Line with a radius curve
Color	Solid B&W	Solid B&W with gray screen (20%)
Illustration	None	None
Layout		
Alignment	Centered	Flush left, ragged right
Margins / Negative space	10%	30%
Repetition / Redundancy	High	Low
Structure (eye flow)	Top to bottom	Top to bottom

Designing for Situations of Elevated Stress

Case Study 2 Message Complexity 1980 IRS 1040 Tax Form, Siegel & Gale

For the year Janua	ry 1-December 31, 1980, or other tax year beginning , 1980, ending	. 19 . OMB No. 1545				
Use Your first	name and initial (if joint return, also give spouse's name and initial) Last name	Your social security nur				
IRS						
Other- Present ho	me address (Number and street, including apartment number, or rural route)	Spouse's social security n				
wise, please						
print City, town	or post office, State and ZIP code					
Desidential		Note: Checking "Yes"				
Presidential Election Campaign	Do you want \$1 to go to this fund?	not increase your tax duce your refund.				
	1 Single	Juction Act Notice, see Instruc				
Filing Status	2 Married filing joint return (even if only one had income)					
Check only	3 Married filing separate return. Enter spouse's social security no. above and full name here					
one box.	4 Head of household (with qualifying person). (See page 6 of Instructions.) If the	qualifying person is you				
	married child but not your dependent, enter child's name					
	5 Qualifying widow(er) with dependent child (Year spouse died ▶ 19).	(See page 6 of Instructions.				
Exemptions	ba Yourself 65 or over Blind	boxes checked				
Always check	Spouse Source 65 or over Source Blind) Enter number				
the box labeled	c First names of your dependent children who lived with you P	····· } of children				
Check other	d Other dependents: [3] Number of [4) Did dependent [5) Did you pr	avide				
boxes if they apply.	(1) Name (2) Relationship months lived have income of more than one-t in your home \$1,000 or more? dependent's sur	all of Enter number of other				
		dependents				
		entered in				
	e Total number of exemptions claimed	. boxes above				
Income	7 Wages, salaries, tips, etc					
Please attach	8 Interest income (attach Schedule B if over \$400 or you have any All-Savers interest)	·				
Copy B of your	9a Dividends (attach Schedule B if over \$400)	9c				
rorms w-2 here.	10 Refunds of State and local income taxes (do not enter an amount unless you de-					
a W-2, see	ducted those taxes in an earlier year—see page 9 of Instructions)	10				
page 5 of	11 Alimony received	11				
	12 Business income or (loss) (attach Schedule C)	12				
	13 Capital gain or (loss) (attach Schedule D)	13				
	14 40% capital gain distributions not reported on line 13 (See page 9 of Instructions)	14				
	15 Supplemental gains or (losses) (attach Form 4797)	15				
	16 Fully taxable pensions, IRA distributions, and annuities not reported on line 17.					
	b Taxable amount if any from worksheet on page 10 of Instructions	- 17b				
	18 Rents, royalties, partnerships, estates, trusts, etc. (attach Schedule E)	18				
—	19 Farm income or (loss) (attach Schedule F)	19				
Please	20a Unemployment compensation (insurance). Total received 20a					
or money	b Taxable amount, if any, from worksheet on page 10 of Instructions	20b				
order here.	21 Other income (state nature and source—see page 10 of Instructions)					
	22 Total income. Add amounts in column for lines 7 through 21	22				
	23 Moving expense (attach Form 3903 or 3903F) 23					
Adjustments	24 Employee business expenses (attach Form 2106)					
to income	25 Payments to an IRA. You must enter code from page					
(See	11 ()					
Instruc-	26 Payments to a Keogh (H.R. 10) retirement plan 26	- /////				
page 11)	27 Penalty on early withdrawal of savings	- //////				
	28 Alimony paid	- /////				
	29 Deduction for a married couple when both work (at-					
	tach Schedule W)	-				
	30 Disability income exclusion (attach Form 2440) 130 1 31 Total adjustments. Add lines 23 through 30	- 31				
Adjusted	32 Adjusted gross income. Subtract line 31 from line 22. If this line is less than					
Hajuorou	\$10,000, see "Earned Income Credit" (line 62) on page 15 of Instructions.					

1980 IRS 1040 Tax Form before Siegel & Gale's revision

Federal Income Tax Return 1980 Short Form Determine your filing status (page 00) and turn to the instructions for that filing status. Then follow the steps below. Privacy Act. The IRS must explain its right to ask for information (page 00). Step 1 Name and address Place the mailing label from the back cover in the space below. Make corrections right on the label. If you don't have a label, print the following information. Your name (first, initial, last) Social Security number Spouse's name (first, initial, last) if joint return Social Security number Street address (include apt. no.) City or town, state, and zip code Revenue sharing information (page 00). Where do you live? State City, village, or borough Do you live within the legal limits of a city or village? □ Yes □ No County Township For IRS use only Step 2 **Check your filing status** Check \mathbf{A} the box for your filing status (page 00): □ Single (and some married taxpayers who lived apart, see page 00). \Box Head of household, *only* if you provided a home for another person (page 00.) □ Married filing a joint return (and some widowed taxpayers, see page 00). □ Married filing separate returns (see page 00). Print: Spouse's name Spouse's Social Security number Step 3 **Presidential Election Campaign Fund** Should the IRS give \$1 of your tax Joint return: Does your spouse want to this fund? \$1 to go to this fund? 🗆 Yes 🗆 No Step 4 Figure your personal deductions 1 Take 1 deduction for yourself. Joint return: Also take 1 deduction for your spouse. (Widowed taxpayers, see page 00.) 4 Age 65. Take 1 deduction if you were 65 by January 1, 1981. + Joint return: Also take 1 deduction if your spouse was 65 by that date. + Blindness (page 00). Take 1 deduction if you were blind. + Joint return: Also take 1 deduction if your spouse was blind (page 00). Dependents. Take 1 deduction for each dependent you claim (page 00). First names of dependent children who lived with you No. of months person lived in your home Names of other dependents Relationship + Line 1. Total personal deductions Form 0000 - U.S. Department of the Treasury - Internal Revenue Service

1980 Siegel & Gale's Redesigned Form

Problem Statement

Because the IRS 1040 tax form has to show a lot of information to the user, the form is usually divided into many sections and lines are used for dividing. Due to the abundance of information and questions in the tax form, some people have difficulty understanding what, how, and where to answer the questions listed. Also, because it is directly related to essential financial information, the average user can easily become nervous.

1980 Tax Form detail

Your first name and initial (if joint return, also give spouse's name and initial) Last name	Your social security number
Present home address (Number and street, including apartment number, or rural route)	Spouse's social security no.

1980 Tax Form, prior to the Siegel and Gale redesign

Eiling Status	1		Single	For Privacy Act and Paperwork Reduction Act Notice, see					
rining Status	2		Married filing joint return (even if only one had	only one had income)					
Check only	theck only 3 Married filing separate return. Enter spouse's social securi		Married filing separate return. Enter spouse's social sec	urity no. above and full name here 🕨					
One Dox.	4		Head of household (with qualifying person). (S	see page 6 of Instructions.) If the qualifying person					
			married child but not your dependent, enter ch	ild's name 🕨					

Different sized boxes and lack of negative space increases confusion

Revised Design Solution

Strong Decisions

- Inclusion of a personal tone ('l', 'Your', 'You')
- Use of simple language for easier reading and understanding
- Reorganization using generous negative space

In 1980, Siegel & Gale suggested these techniques to designers who try to design forms: totally reorganize information for the consumer, use personal tone of language such as 'l', 'we' and 'yours', radically simplify language, and use active verb forms to enhance clarity.

Print v.35, Good Form 38

Revised Design Solution detail

Your name (first, initial, last)	Social Security number
Spouse's name (first, initial, last) if joint return	Social Security number
Street address (include apt. no.)	City or town, state, and zip code

Siegel and Gale's tax form shows better seperation and structure of information

Step 2	Check your filing status
	Check of the box for your filing status (page 00):
	□ Single (and some married taxpayers who lived apart, see page 00).
	□ Head of household, only if you provided a home for another person (page 00.)
	□ Married filing a joint return (and some widowed taxpayers, see page 00).
	□ Married filing separate returns (see page 00). Print:

Numbering each area, use of generous negative space, and clearly visible check boxes

Siegel & Gale and their team successfully applied a simplified language system in their project. It improved users' ability to understand the form. In addition, creating generous margins and negative space in the short form were enough to lessen the message complexity.
Siegel & Gale is an international design firm that helps established and emerging companies create new businesses, brands, products, and services in the information economy. The firm provides brand identity, strategic marketing

Internet business strategies, design and research.

Assessment

This designer gathered the different design elements that were used in the old and new versions of each tax form. Using a matrix, the differences were identified and documented. This matrix shows where significant changes occurred in each of the redesigns. The design elements can be divided into three major sections (type, visual characteristics, and layout), and each of these sections have their own specific categories. The results in the matrix are integrated into the final application.

1980 1040 Tax Form

1980 Siegel & Gale's Form

Туре		
Sizes	4	2
Typefaces	Arial (Sans Serif)	Franklin Gothic Century School Book
Weights	2	2
Casing	Upper & lower case	Upper & lower case
Visual Characteristics		
Shape	None	None
Line	Solid and dotted lines used to distinguish elements	Solid lines used to distinguish elements
Color	Solid B&W	Solid B&W
Illustration	None	None
Layout		
Alignment	Flush left, ragged right	Flush left, ragged right
Margins / Negative space	5%	20%
Repetition / Redundancy	High	Low
Structure (eye flow)	Top to bottom	Top to bottom

Case Study 3 Time Pressure 1996 Timetable, Yateendra Joshi

1984 Indian Railway	Timetable b	efore Yateendra J	oshi's revision
---------------------	--------------------	-------------------	-----------------

	Table-5			BAY	V.TI	PUNE	-DAU	ND (B.G.)			DOW	N	
	Train No.		1551	1553	2113	1007	6529	7307	1321	7031	1617	1547	2701	
	STATIONS		Pune- Daund Pass- enger II	Pune- Daund Pass- anger II	Bom- bay- Pune Super Fast Indr- yani Expr AC II, Ii	Bom- bay- Pune Deccan Exp. I & II	Bom- bay- Banga- iore Udyan Exp. I & II, AC II	Bom- bay- Kolha- pur Koyna Exp. 1 & II	Pune- Daund Man- mad Jalna Pass- enger 1 & li	Bom- bay- Hyde- rabad Exp. I & II AC II	Karjat– Pune Pass- enger !I	Pune- Daund Pass. II	Miraj- Niza- muddin Goa Super Fast Exp: I & II AC II	
	BOMBAY V.T.	d			06 00	06 40	07 55	08 45		12 35				
9	Byculla S. bk. Dedar S. bk.	đ		126.2	06 12	06 52	08 11	09 00		12 48				
16 34	Kurla S. bk. Thane S.	···			••••	· · · ·		09 29						
54	KALYAN JN.	ę.				07 45	09 11	09 58		13 45				
56	Vithalwadi bk. T.	ů.				07 50	09 16	10 03	<	13 50	3			
58	Ulhasnagar S.					,				·				
50 58	Badlapur S. bk.													
78 32	Vangani Shelu													
37	NEDAL IN TI					08 10		10 33						
13	Bhivupuri Road					00 10		10 33						
~0 .4	Karjat bk. VN Khandala S.				07.25	08 38		10 50		14 33	15 15			
8	LONAVALA VNS-bk.				08 17	09 50	10 55	11 50		15 32	16 05		- 5	
4	Kmshet				· · · · ·	·				·		100 - 1		
58	Vadgaon Talegaon S.					/ <u></u>		12 21			16 40			
60	Ghorawadi				· · · ·			·		••••	· ·		Ev	
68	Denu Road	·			<u></u>						16 56		Miraj	
72 76	Akurdi Chichwad S.							12 43			17 04		Dep. 06 45	
78	Pimpri S.	·				· *				1 ¹	17 17			
84	Dapodi										17-25	Y T		
86 90	Shivaji Nagar S. bk.	·			09 20	10 48	· · · · ·	13 00		· · · · ·	17 33			
92	PUNE JN. T.	.2			09 30	11 15	12 00	13 30		16 55	17 55		12 15	
98	VNS bk. Hadapsar	d	07 30	11 20			12 20	13 50	15 30	17 15		17 55	12 35	
00	Manjari Budruk (H)	•••	07 47	11 37					15 48		\frown .	18 12		÷.
21	Uruli S.	,	08 10	12 00					16 10	17 40		18 35		
.34 46	Yevat Kedgaon		08 24 08 38	12 14					16.25	18 03		18 49		
56	Patas DALIND JN		08 49	12 39			13 20		16 52	18 30		19 14	13.40	
10	VNS-bk	đ					13 30		17 35	18 40			14 00	
-		· · · · · · ·	Sec. 1.	-		MICH	1. A. A.					1.00		NUMBER OF STREET, STREE

1996 Joshi's Redesigned Railway Timetable

5.00	Indravani Express 2112 Dn	9.30
5.00	Dadar, Karjat, Lonavala, Shivaji Nagar	9.50
15	Deccan Express 1007 Dn	11.15
0.40	Dadar, Kalyan, Neral, Karjat, Khandala, Lonavala, Khadki, Shivaji Nagar	11.15
EE	Ilduan Evoress 6529 Dn	12.00
.00	Dadar, Kalyan, Lonavala	12.00
45	Kovna 7307 Dn	130 nm
.45	Dadar, Thane, Kalyan, Neral, Karjat, Khandala, Lonavala, Talegaon, Chinchwad, Khadki, Shivaji Nagar	1.00 p.m.
2.35	Hyderabad Express 7031 Dn	4.55
	Dadar, Kalyan, Karjat, Lonavala	
.25	Dadar–Madras Express 6511 Dn	6.20
	Kalyan, Karjat, Lonavala, Khadki	
.35	Sinhagad Express 1009 Dn	7.05
	Dadar, Kalyan, Karjat, Khandala, Lonavala, Chinchwad, Pimpri, Khadki, Shivaji Nagar	
3.35	Kanyakumari Express 1081 Dn	7.45
	Dadar, Kalyan, Karjat, Lonavala	
.25	Pragati 2125 Dn	8.05
	Karjat, Lonavala, Shivaji Nagar	
5.10	Deccan Queen 2123 Dn	8.35
	Karjat, Lonavala, Shivaji Nagar	
5.50	Sahyadri 7303 Dn	10.25
	Dadar, Kalyan, Karjat, Khandala, Lonavala, Talegaon, Dehu Road, Pimpri, Khadki, Shivaji Nagar	
7.50	Dadar Madras Chenai Cochin Express 6063 Dn	10.00
	Kalyan, Lonavala	
3.20	Kurla–Netravati Express 6635 Dn	00.15 a.m.
	Kaiyan, Lonavala	
8.45	Dadar Mahalaxmi Express 7311 Dn	1.00
	Kalyan, Karjat, Lonavala	Emilion of the second
		4.45
9.55	Kalvan	1.45
		0.50
10.05	Siddheshwar 1023 Dn Dadar Thana Kalvan Kadat Khandala Lonavala Dehu Road Pimini Khadki Shivaji Nagar	2.50
	Badar, mane, Kaiyan, Kaiya, Khanaala, Lonavana, Bona Koda, Finipi, Kadaki, Onroji Kagar	
10.20	Kurla-Bangalore 1013 Dn	2.15
	Kalyan	
11.10	Hussainsagar 7001 Dn	3.25
	Dadar, Naiyan, Katjat, Lonavala	
11.15	Madras Mail 7009 Dn	3.30
	Dadar, Kalyan, Karjat, Lonavala, Khadki	economic de la companya de la company
11.20	Pune Passenger 1325 Dn	5.50

Problem Statement	Busy people in a crowded train station may have difficulty finding and determining train schedules. During the process of choosing a train, people have to think about both departure and arrival times. Some people may need other specific information, such as food availability or duration of trip.
Revised Design Solution	 Strong Decisions Making totally new concept based on user needs Improvement on existing text legibility Use of basic graphic elements for calculating
	Noying Foor Diff Dadar, Thane, Kalyan, Neral, Karjat, Khandala, Lonavala, Talegaon, Chinchwad, Khadki, Shivaji Nag Hyderabad Express 7031 Dn Dadar, Kalyan, Karjat, Lonavala
	Each bar represents a specific train and includes the name and number of the train as well. $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
	Journey Time (hours) A scale showing the time, in hours, is placed at the foot of the timetable. MORNING AFTERNOON
	Dividing the train information into four groups based on their departure times, using different colors and including bars helps add clarity to the train timetable.
Analysis	Yateendra Joshi redesigned the old train timetable in India. He concentrated on the three most common reasons people choose a particular train: people want options for a convenient time to leave, a convenient time to arrive, or ways to spend the least amount of time on the journey. His new and improved solution is accomplished by using organized and refined information.
About Yateendra Joshi	Yateendra Joshi, Author of <i>Communicating in Style. 2003</i> , She wrote <i>Communicating in Style</i> for her company, The Energy and Resources Institute (TERI), which is based in New Delhi, India, to use as its corporate style guide.

Assessment

This designer gathered the different design elements that were used in the old and new versions of each railway timetable. Using a matrix, the differences were identified and documented. This matrix shows where significant changes occurred in each of the redesigns. The design elements can be divided into three major sections (type, visual characteristics, and layout), and each of these sections have their own specific categories. The results in the matrix are integrated into the final application.

1996 Joshi's Railway Timetable

Туре			
Sizes	2	3	
Typefaces	Arial (Sans Serif)	Univers 65 (Sans Serif)	
Weights	2	2	
Casing	Upper & lower case, All capitals	Upper & lower case	
Visual Characteristics			
Shape	None	White, gray and black boxes	
Line	Solid & dot lines usedVertical lines usedto distinguish elementsto distinguish the time		
Color	Solid B&W Solid B&W with gray		
Illustration	None None		
Layout			
Alignment	Centered Flush left, ragged right	Flush left, ragged right	
Margins / Negative space	15%	18%	
Repetition / Redundancy	Low	Low	
Structure (eye flow)	Left to right, top to bottom	Left to right, top to bottom	

Case Study 4 Crisis Situation 1986 Choking Poster, American Red Cross

1983 American Red Cross Choking Poster before 1986 revision





1986 American Red Cross Redesigned Choking Poster

Problem Statement	A choking poster has two different kinds of readers: the first is one who would like to learn anti-choking maneuvers for future emergencies. In this case, the information is not learned during a crisis situation, but at the user's leisure, making it a simple learning situation. The second kind of reader is one who is attempting to learn the information in an emergency situation, which involves an individual, potentially a family member or friend, actually choking. Therefore, the anti-choking poster should not simply be designed for calm learning purposes, but also for high-stress situations where immediate clarity and understanding is essential to save a life.	
Revised Design Solution	 Strong Decisions Reorganization of information structure Simplification of illustrations Use of generous margins 	
About American Red Cross	Since its founding in 1881, the American Red Cross has been the nation's premier emergency response organization. Over the years, the organization has expanded its services, always with the aim of preventing and relieving suffering.	
Analysis	The 1986 American Red Cross choking poster shown on page 30 has more accessible information than the 1983 poster shown on page 29 because each step of the Heimlich maneuver is clearly designated by an enlarged number. Also, by limiting the number of type sizes and using white space more generously, viewers can find what they want to know and easily follow the next step. In addition, implementing stylized color illustrations makes it easier for users to understand each step. These design decisions guide the user through the instructions with ease.	

Assessment

This designer gathered the different design elements that were used in the old and new versions of each choking poster. Using a matrix, the differences were identified and documented. This matrix shows where significant changes occurred in each of the redesigns. The design elements can be divided into three major sections (type, visual characteristics, and layout), and each of these sections have their own specific categories. The results in the matrix are integrated into the final application.

	1983 Choking Poster	1986 Choking Poster
Туре		
Sizes	7	3
Typefaces	3 (Century, Helvetica, Arial)	1 (Futura)
Weights	3	2
Casing	Upper & lower case, All capitals	Upper & lower case, All capitals
Visual Characteristics		
Shape	None None	
Line	1 dotted line, 3 different lines with None arrows, 1 thin hairline	
Color	B&W with red	B&W
Illustration	Highly representational, Stylized illustration B&W line only	Highly representational, Stylized illustration Full-color, line & solid shapes
Layout		
Alignment	Centered Flush left, ragged right Flush left, ragged right	
Margins / Negative space	23% 45%	
Repetition / Redundancy	Low	
Structure (eye flow)	Left to right, Top to bottom Top to bottom	

Introduction	Several design application possibilities were considered for this thesis, with a view toward demonstrating the design strategies discovered during research. Therefore, the application should be one of common use in the general public, which would likely be used in high stress situations. Below are the possible applications that were considered.		
	Vehicle	On-line interactive guide	
	Purpose	A program to help teach designers how they can reduce a user's stress level using specific design variables (text alignment, size, etc)	
	Target users	Graphic designers primarily involved with information design	
	Function	When a graphic designer starts this program, he/she would import the target user's information based on the stress of each category (Unfamiliar content, Message complexity, Time pressure, and Crisis situation). The program would then provide design solutions which are based on result of this thesis with explanations of what past designers concentrated on in terms of design variables.	
	Strong points	 Limitless updates and amounts of information Users have interactive capability Easy to change format (book, poster, etc) 	
	Weak points	 Approach may be more difficult for users less familiar working with computers Difficult to know actual size and color 	
Possible Application 2	Vehicle	Guide to designing for stress (web-based application)	
------------------------	---------------	---	
	Purpose	A program to help teach designers how they can reduce a user's stress level using diverse design elements (text alignment, size, etc)	
	Target users	Graphic designers primarily involved with information design	
	Function	This application is basically the same as Application 1, but also includes a community section that would allowing designers to discuss their projects with other designers, including those from other disciplines (industrial design, interior design, etc) to gather feedback from different points of view. Additionally, by implementing an evaluation system, people can vote on which design solutions they believe are more effective and efficient.	
	Strong points	 Easy to disseminate this program Ability to share many designers' ideas, opinions, and feedback 	
	Weak points	 Use is limited to situations where a computer and internet access is available Misunderstanding about color and size due to computer screen inconsistencies 	

Possible Application 3	Vehicle	Poster (diagnostic version)
	Purpose	Easy to follow guidelines for graphic designers about how they can reduce a user's stress level
	Target users	Practicing graphic designers
	Function	This application would be a large-sized poster displaying the different categories as well as solutions that would be appropriate for different combinations of stress. It helps designers identify what kinds of stress their consumers experience in different situations. As designers determine the target user's stress level for their project, they can consult design solutions from past successful projects.
	Strong points	 Easy to access Precise understanding of actual sizes, details and colors Convenient to focus on what viewers want to know
	Weak points	 Requires enough wall space to post Difficult to change format
Possible Application 4	Vehicle	Guidebook
	Purpose	Easy to follow guidelines in a book format for graphic designers about how they can reduce a user's stress level
	Target users	Practicing graphic designers
	Function	This application deals with different kinds of design requirements. Each section has its own dominant color system, typeface and solution category. It not only suggests ways to reduce the user's stress, but also identifies the kinds of stress and solutions that this thesis recommends.
	Strong points	 More portable than other formats Able to show information in actual size and detail
	Weaker points	 Difficult for readers to find what they are looking for Difficult to update and maintain over time

Introduction of Negative Space

Throughout Asia, *yin* and *yang* is a very common theory in philosophy and art. It describes every thing in the world as having an opposite. Like light versus dark, and sky versus land, graphic designers must consider positive versus negative space in their work. Sometimes negative space can be overlooked when focusing on positive content. Negative space is not just empty space between objects; it provides readers with clues about the distinction among images and text, flow of information, and provides an environment in which both exist.

Most people are familiar with the Rubine vase an example of optical illusion. When the vase is the figure, it seems to be in front of white background, whereas the faces are in front of a black background when the view is reversed. This example illustrates that sometimes the use of inadequate negative space can lead viewers to the wrong conclusion or meaning. For this reason, this designer researched the use of negative space to understand how it aids users and creates opportunities to improve readability. For the analysis of negative space, this designer counted how many negative spaces were used in the existing choking posters by using grids which consist of 1,620 to 1,650 small, equal-size squares.

Information Anxiety2 46 Principles of Cognitive Psychology 22



Example of the negative space (black table) between positive objects (plates, glasses)

Measuring Negative Space 1 American Red Cross Posters

Through the use of a standard grid, the amount of white space used for each case study was measured. Usually the use of negative space helps separate content, making it easier for the viewer (reader, user) to understand the different parts of the message.

Total blocks	1,650
Black blocks only	382
Negative space	23 %





1983 American Red Cross Choking Poster



1986 American Red Cross Choking Poster

Measuring Negative Space 2 American Red Cross Poster and Commercial Poster

Total blocks	1,620
Black blocks only	463
Negative space	29 %



Total blocks	1,650
Black blocks only	356
Negative space	22 %



2003 Commercial Choking Poster

2001 American Red Cross Choking Poster

The intermediate evaluation consisted of a careful examination of four case studies, selected to represent the four categories of stress (Unfamiliar content, Message complexity, Time pressure, and Crisis situation). All four case studies focused on the broader sequential aspects of information, *Procedure* and *Process*, as described earlier on page 10.

From this examination, the comparison of original (or older) solution, and revised design solutions from each case study revealed specific design strategies employed to address user needs in a stressful situation. Significant in this comparison were the weaker points of the original solutions and the stronger points of the revised design solutions listed below:

Weaker Points

- Too many different typefaces, sizes and weights
- Use all capital letters
- Too many visual cues (arrow, symbols, lines)

Strong Points

- Exclusive use of upper and lower case typography
- Appropriate organization of content
- Flush left, ragged right text format
- Use of generous margins and negative space
- Reducing repetition and redundancy
- Use of language simplification to yield clear, understandable English

Implementation

About the Application

Using findings from the case studies, an existing choking poster was considered as a possible application. It contained appropriate design considerations for situations of elevated stress because the choking poster has to be designed not only for a Crisis situation, but also in answer to Unfamiliar content, Message complexity, and Time pressure. The goal of this application is to demonstrate the effectiveness of these design strategies and help graphic designers better understand the issues of designing when trying to reduce the potential effects of user stress.

Problem Statement



2001 American Red Cross Choking Poster

The 2001 American Red Cross choking poster is the most recent version in use; however, as has already been stated on page 39, it has several problems that need to be addressed.

Layout Problems

The existing poster has organizational and structural problems. It consists of three sections for emergency and education. The first section recommends checking the environment and the victim. The second section (main section) commands the most space as it shows how to treat the victim, how to use CPR and the Heimlich maneuver. This section was divided into different age groups (infants, children and adults) and organized by the victim's condition (conscious or unconscious). The last section contains information about the American Red Cross and related education. Because the old poster's categories and layout use linear alignment across the two different directions for eye movement; right to left and top to bottom, users felt the information was complex and hard to follow.



- 1 White color arrows show users' possible direction of eye movement
- 2 Vertical and horizontal negative spaces between groups of images make the sequence and associations of images ambiguous

Problem Statement

Language Problems

The 2001 poster uses unclear messages and many repetitions. For instance, very detailed explanations are useful for people who want to obtain specific information, but, in this case, the target user is the general public or people who have to save a victim in time-limited circumstances. Therefore, the anti-choking poster must use concise and clear language to reduce the user's stress. An overabundance of information prevents reducing stress. The 2001 poster repeats the same exact sentences in each category (adults, children, infants). This duplication makes it difficult for users to distinguish categories in a stressful situation.



 Give abdominal thrusts until object comes out or victim is unconscious



- Message is unclear and potentially misleading (the point is not to repeat the abdominal thrusts until the victim becomes unconscious)
- 2 Repetition of the same message is confusing and not helpful

Typography Problems

In regard to typography, the 2001 poster used all capital letters in some parts, used two different alignments (center alignment, flush left and ragged right alignment), and decorated symbols and typefaces. These various design techniques also made it difficult for the reader to focus on important information since the reader's attention is drawn to multiple areas of the poster.



Point 1 and 3 are consistent and effective, while point 2 is not:

- 1 Flush left, and ragged right alignment with a sans serif typeface
- 2 Central alignment with a serif typeface
- 3 Flush left, and ragged right alignment with a sans serif typeface

Problem Statement

Image Problems

The 2001 poster uses photographic images for instruction. Although these photo images give vivid and realistic depictions to the viewer, the amount of extraneous visual information does not help focus the viewer on the salient information, forcing the user to focus instead on irrelevant details. For example, when people see the photo images in the poster, unrelated details such as clothing, hairstyle, and facial expressions could distract the viewer from key information the viewer need.

2001 Choking Poster Image



- 1 In the selected area, realistic picture (left) has more extraneous information
- 2 In the selected point, the stylized illustration (right) provides more accurate information

1987 Choking Poster Image

Redesigning the Choking Poster

First Step

This designer removed all decorative parts of the existing 2001 poster. The decorated areas include meaningless lines and colors. This ornamentation distracts the user from the main communication, so all meaningless colors, lines, or shapes were eliminated.

Second Step

The existing poster's visual structure was modified. The 2001 poster showed the *infants* section first, the *children* section second, and the *adults* section last. It appeared to be arranged by age. Because victims and readers are primarily adults, the sequence and priority was restructured as adults, children, and infants. Different background colors were selected to distinguish the three age sections. Another major change in the layout was the division between conscious and unconscious victims. The 2001 poster did not make a clear distinction between these two categories. This is key information for saving someone's life because the process of helping a choking victim is very different depending on whether or not they are conscious.



Comparison of information organization between the existing 2001 American Red Cross choking poster and final thesis application

Redesigning the Choking Poster

Third Step

The use of clear language is very important for the public. The design firm Siegel & Gale explained this approach in an article called *Good Form* in the 1981 publication of Print magazine, volume 35. The techniques mentioned include the use of a personal writing tone, simplified language, and shortened sentences. This designer changed the 2001 poster's text based on these suggestions, and also tried to reduce redundancy. Redundancy was one of the biggest textual problems in the 2001 poster because the unnecessary repetition of words distracts the reader's concentration.

Fourth Step

This designer changed all realistic photographic images in the 2001 poster to simplified illustrations, and tried to include a minimum number of lines in each illustration. Also, by including graphical indicators, such as arrows and spot lights, this designer tried to focus the attention of the viewer to important areas of information. Additionally, by using the same background color in each group of illustrations, this designer tried to make each category within the poster intuitively obvious. This should help readers more easily follow the steps.

Overall Redesign Concept

This designer focused on creating a new choking poster based on the results of the four case studies. Using user-friendly organization, simplified texts, and effective illustrations, this designer successfully applied the core ideas of this thesis to the new choking poster. In addition, this designer appropriately applied other elements such as a warm gray background color and generous margins so important visual information was more prominent and therefore easier for the viewer to see.





Comparison between the realistic photographic image and the simplified illustration

Version 1 / Final Application

Main Redesign Points

- Visually dividing conscious and unconscious groups
- Removing unnecessary decorations
- Changing category order (adults first and infants last)
- Reducing the number of different typefaces and sizes



First prototype of the final application; finished size 11 X 20 inches

Version 2 / Final Application

Main Redesign Points

- Changing photographic images to illustrations with graphic indicators
- Using more legible and understandable typography and language
- Giving more emphasis to conscious and unconscious groups and to each process
- Adjusting the compositional structure (layout of texts and images)



Second prototype of the final application; finished size 11 X 20 inches

Version 3 / Final Application

Main Redesign Points

- Simplifying language to be more efficient and immediately clear ('Steps for' versus 'What to do for')
- Removing boxes around numbers for each step (reducing the emphasis on the numbers gives more attention to the mail section titles: conscious and unconscious victims)
- Consistent use of the three colors connects the three sections (adults, children, infants) with their corresponding verbal directions and sequence of images



Third prototype of the final application; finished size 11 X 20 inches

Color Schemes / Final Application

Main Redesign Points

This color scheme consists of background colors (white, gray, red) and three distinct section colors (purple, tan, green). Red is the dominant color to emphasize and associate the main poster title (Choking) with the two main categories (conscious and unconscious victim), and directional arrows in the images. The goal was to develop three colors with similar value, but distinct hues and a system of colors that would be effective with the background colors (white, gray, red).



Five color schemes considered; color scheme 5 was chosen for the final application

Final Selected Application

Main Redesign Points

- Using more familiar language ('Check' versus 'Check Situation')
- Reorganizing text elements to more clearly reveal the hierarchy of information
- Adding colors based on the color scheme shown on page 48



Please see an enlarged version in Appendix 2; finished size 11 X 20 inches

MFA Thesis Exhibition



The exhibition from April 1st to April 15th in the RIT Bevier Gallery was a chance to display this thesis project to the public.

This thesis exhibition consisted of four panels: title, thesis definition, case studies and evaluation, and thesis implementation. The title panel was used to attract the attention of the audience, using a hand drawn illustration. In the title panel, this designer depicted a thinking designer, using concise line drawings so that the viewers would focus more on the thinking or decision-making suggested by the drawings, thereby placing emphasis on the importance of concept development. Also, this designer used complex curly lines as the background of the title text, which conveys how much designers should understand and think about users' stressful situations. Half of the second panel briefly presented an introduction of this thesis including concept, mission and goals, scope, and bibliography. The second half of the second panel presented four different case studies and their evaluations based on graphical elements and analysis. Each case study represented what kinds of stressful situations are being examined; Unfamiliar content, Message complexity, Time pressure, and Crisis situation. The panel used appropriate images in the title space of each category, so viewers would intuitively recognize what each section meant. The last half of the third panel introduced the methods of evaluation and possible design applications.

MFA Thesis Exhibition/ RIT Bevier Gallery





MFA Thesis Exhibition Panels 1



Please see enlarged version of panels in Appendix 1; finished size 88 X 33 inches

MFA Thesis Exhibition Panels 2



Please see enlarged version of panels in Appendix 1; finished size 88 X 33 inches

About the Final Survey

A survey was prepared to evaluate the new choking poster that was developed as a final design application for this thesis. The survey involved having respondents compare the new choking poster with the 2001 version of the American Red Cross choking poster, and answer the survey questions. The survey form consists of four sections: language, illustration, organization, and overall observations. Each section has a five-point ranking system: excellent, good, fair, poor, and don't know. A comments section is included for each question.

The surveys were completed at the American Red Cross and Kodak offices in Rochester, NY. These two groups were chosen because many of those involved are specialists in a specific design field such as graphic design, industrial design, and human factors design, or are specialists in performing and educating others in the Heimlich maneuver and CPR. Those who filled out the survey were not informed of what the designer changed and why the changes were made. In other words, these surveys were filled out by impartial users.

Survey Form

	Survey of Choking Emergencies Poster Spring 2006 March					
		Please an by checki	swer the fo ng the app	ollowing qu ropriate bo	estions x.	
Language	How clear is the text in the new poster to understand?	Excellent	Good	Fair	Poor	Don't kno
	Specific comments?					
Illustration	How well do the illustrations	Excellent	Good	Fair	Poor	Don't kn
	explain each instruction? Specific comments?					
Content Organization	How well does this new poster organize information?	Excellent	Good	Fair	Poor	Don't kn
	Specific comments?					
Overall	How do you rate this new poster?	Excellent	Good	Fair	Poor	Don't kn
	Specific comments?					

Result of Survey

Most of the surveys resulted in positive responses. Twenty-nine people completed the surveys which evaluated four sections; language, illustration, content organization, and overall observation. This designer summarized the results of the survey for the final thesis application:

- 53 answers were 'excellent' 46%
- 48 answers were 'good' 41%
 - 14 answers were 'fair' 12%
- 1 answer was 'poor' 1%
 - The 'don't know' category did not receive any answers.

According to the summary information, most people, even the American Red Cross staff, agreed that the new poster was better for reading in elevated stressful situations than the most recent American Red Cross choking poster. They suggested other solutions and possible ideas for improvement. All of the surveys are included in Appendix 3.

In the three categories (language, illustration, and organization), the survey shows that the redesigning of content organization was the most improved section for the reader. Of the three sections, illustration was the section most in need for improvement. It could have been improved by making the illustrations 3-dimensional, adding graphic indicators, and adding numbers for each step. Another area of suggestion (which was already an existing concern) dealt with which information is more important, age or process, and also which reading direction is more appropriate, left to right, or up to down.

	Excellent	Good	Fair	Poor	Don't Know
Language	12	14	3	0	0
Illustration	9	14	6	0	0
Content Organization	19	7	2	1	0
Overall Observation	13	13	3	0	0

Matrix of total number of answers

This graduate thesis project examined the importance of information design in the context of problems where stressful situations can compromise the function of design solutions to communicate messages clearly and effectively. By investigating previous case studies, several fundamental design principles were identified and employed in a final application to evaluate the potential of these principles to help improve users' ability to access and successfully comprehend visual communication delivered under stressful situations. A survey of professional designers substantiated the effectiveness of the final thesis application, a redesign of the 2001 American Red Cross choking poster. As the thesis project continued to progress, great satisfaction was derived in achieving three specific thesis goals:

- Definition of information and information design
- Identification of stressful situations
- Development of specific design requirements for addressing stressful situations

This designer defined four different factors that contribute to elevated stress: Unfamiliar content, Message complexity, Time pressure, and Crisis situations. Defining these four factors of stress was necessary to understand difficulties users encounter when trying to read messages under stressful situations. The classification of information as Property, Principle, Procedure, and Process was used to narrow the focus to a more manageable exploration. The case studies examined were limited to kinds of information in the Procedure and Process categories–logical, sequential steps in a process over time.

After more fully understanding the scope of different kinds of stressful situations and what kinds of information need to be communicated, and with the aid of the past successful case studies, appropriate design directions became clear.

Briefly, specific kinds of design solutions consistently performed best under certain stressful situations. For example, the use of legible typography and generous negative space were good strategies for making unfamiliar content more accessible. Use of simple language and a personal tone was benefitted complex message situations. More logical and better organized compositions improved ease of reading and helped users understand potentially life-saving information needed under time-pressured circumstances.

After analyzing the design solutions of the case studies, it became clear that information design problems are prone to having all four factors that contribute to elevated stress (Unfamiliar content, Message complexity, Time pressure, and Crisis situations) occurring simultaneously. Developing a vocabulary and a set of design considerations led to an organized strategy for addressing information design problems where users face kinds of stress that can inhibit the successful transmission of crucial visual communication.

The findings of this thesis contribute positively to the field of graphic design and information design in particular. By helping fellow designers better recognize the kinds of stress experienced by users of design, and by providing strong recommendations of strategies to achieve more effective solutions, this kind of highly functional design can have a positive impact in peoples' daily lives. Critical information that must be easily read, understood and acted upon needs to be held to an even higher standard of excellence when stress factors are present.

Glossary of Terms

Terms	Definitions
Alignment	Arrangement or position in a straight line or in parallel lines. Optical alignment is always more important than measurable alignment.
Brainstorming	A method of shared problem solving in which all members of a group spontaneously contribute ideas. And, a similar process undertaken by a person to solve a problem by rapidly generating a variety of possible solutions. (Dictionary.com)
Cognitive Friction	It is the resistance encountered by a human intellect when it engages with a complex system of rules that change as the problem permutes. (The Inmates are Running the Asylum P.21)
Comparison tests	These are often performed at many stages during and after the development of a product to specifically compare one alternative to another on specified measures. (www.bsu.edu)
Crisis	An emotionally stressful event or traumatic change in a person's life.
Flush-left, Flush-right	Even or aligned on the left edge or the right edge of the column, the opposite side remaining deliberately uneven.
Information	Information is used to caution, inform, explain, direct, clarify, distinguish, illuminate, illustrate and educate.
Information Design	Information design is concerned with understanding reader and user responses to written and visually presented information. These are utilitarian problem in which functional requirements of design are critical in making information understandable and accessible to user.
Legibility	Ability of a viewer to see or discern the message displayed.
Negative Space	Negative space is the area around and between the subject(s) of an image. It may be most evident when the space around a subject, and not the subject itself, forms an interesting or visually relevant shape, and such space is occasionally used to artistic effect as the 'real' subject of an image. (The Art of Looking Sideways P.370)
Margins	The space between elements on a page or spread.
Matrix	A rectangular array of quantities or expressions structured in rows and columns.
Readability	Ability of the viewer to comprehend or understand the message displayed.
Stress	An applied force or system of forces that tends to strain or deform a body. The resisting force set up in a body as a result of an externally applied force. A physical or psychological stimulus that can produce mental tension or physiological reactions that may lead to illness. (Dictionary.com)
Weight	The boldness of type, based on the thickness of the strokes of characters.

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Information Anxiety 2	Wurman, Richard Saul. 2000. <i>Information Anxiety 2.</i> Pearson Education; 1st edition.
Information Design	Jacobson, Robert. 2000. <i>Information Design</i> . The MIT Press; 1st edition.
The Inmates Are Running the Asylum	Cooper, Alan. 1999. The Inmates Are Running the Asylum: Why High Tech Products Drive Us Crazy and How To Restore The Sanity. Sams; 1st edition.
Journals	
Good Form	Siegel & Gale. 1981. <i>Good Form.</i> Print v.35 (January/February 1981) P.38-45.
Graphic Representation of Railway Timetable	Yateendra, Joshi. 1996. <i>Graphic Representation of Railway Timetable: A Case Study.</i> Information Design Journal v.8 P189 -191.
Websites	
AIGA	American Institute of Graphic Arts http://www.aiga.org Date accessed: 2005
Election Design	AIGA design for democracy http://designfordemocracy.aiga.org Date accessed: 2004
Information Design for the World Wide Web	http://www.washington.edu/webguides/design.class/index.html Date accessed: 2004
The Gallery of Stick-Figure Warning Signs	http://www.cs.utexas.edu/users/tbone/warningsigns/index.html Date accessed: 2004
Understanding USA	http://www.understandingusa.com Date accessed: 2004

Appendix 1

Designing for Situations of Elevated Stress

Thesis Exhibition Panels

Appendix 2

Final Poster Application

Survey of Choking Emergencies Poster Spring 2005 April Please answer the following questions by checking the appropriate box. Don't know How clear is the text in Excellent Good Fair Poor Language the new poster to understand? Х Red Cross Training emphasizes (Specific comments? $C_{o}II$ over 10 uc Fair Poor Don't know How well do the illustrations explain Excellent Good Illustration each instruction? Z Specific comments? 005 Don't know How well does this new poster Excellent Good Fair Poor Content Organization organize information? \mathbf{X} Specific comments? The edoma comparison is 9000 Presentation she agai ir training 45 done Overall How do you rate this new poster? Excellent Good Fair Poor Don't know X A Specific comments? 1.5 a excellent lots Used 910 65

	Survey of Choking Emergence Spring 2005 April	es Poster
		Please answer the following questions by checking the appropriate box.
Language	How clear is the text in the new poster to understand?	Excellent Good Fair Poor Don't kr
	Specific comments?	Need check, Call, Care as mour course - Call 9-1-1 Should be more Bold
Illustration	How well do the illustrations explain each instruction?	Excellent Good Fair Poor Don't kr
	Specific comments?	Grey human beings-harder story w/ what to lo in rea Star show stukent more life to act in real situation with real people pictured.
Content Organization	How well does this new poster organize information?	Excellent Good Fair Poor Don't kr
	Specific comments?	Having columns to compare Alexer/Infant/child gives better organized view of differences.
Overall	How do you rate this new poster?	Excellent Good Fair Poor Don't kr
	Specific comments?	Botton Section great for Brand thentify fores.
		Trakyou

Survey of Choking Emergencies Poster Spring 2005 April Please answer the following questions by checking the appropriate box. Don't know Excellent Language How clear is the text in Good Fair Poor the new poster to understand? instructs Specific comments? 1055 herk nII. Care + needs emphases on post How well do the illustrations explain Excellent Good Fair Poor Don't know Illustration each instruction? K 07 Specific comments? 0 ve How well does this new poster Excellent Content Good Fair Poor Don't know Organization organize information? Ż 01 Specific comments? Overall How do you rate this new poster? Excellent Don't know Good Fair Poor la Specific comments? Ŀ 0 67

	Survey of Choking Emergence Spring 2005 April	ies Poster				
		Please an by checki	swer the fo ing the app	ollowing qu ropriate bo	estions x.	
Language	How clear is the text in the new poster to understand?	Excellent	Good	Fair	Poor	Don't kno
	Specific comments?	Very well	nicely	doue w grid	the short and stra	for information
Illustration	How well do the illustrations explain each instruction?	Excellent	Good 凶	Fair	Poor	Don't kno
	Specific comments?	 illwada Bwt Bean	me to f ottan li it could use of	he previo ooks cle I easy - the loc	us poster ar and s to locas k of colo	, <u>the new</u> simplified. <i>Toose Acc</i> +.
Content Organization	How well does this new poster organize information?	Excellent	Good	Fair	Poor	Don't kno
	Specific comments?	Engli othe o	f the	each vi most pou	chim 5,4m vertent do	fron is Wantages
Overall	How do you rate this new poster?	Excellent	Good	Fair	Poor	Don't kno
	Specific comments?	~ 	llent (n 1 bolist	red and	- He.	
					-	-

	Survey of Choking Emergenci Spring 2006 March	es Poster				
		Please an: by checkin	swer the fo ng the app	llowing que ropriate bo	estions x.	
Language	How clear is the text in	Excellent	Good	Fair	Poor	Don't kno
	the new poster to understand?		×			
	Specific comments?	widt	hs or .	iome pura	graphs o	are not a
		Secti	, with ri ous - th	rurchy	is goo	wordSa d-
Illustration	How well do the illustrations explain	Excellent	Good	Fair	Poor	Don't kno
	each instruction?	X				
	Specific comments?	Very	well d	0-1 +	ambiyvo	~>
		Characters help make the poster we				
		acce	*~~~	و,		
Content	How well does this new poster	Excellent	Good	Fair	Poor	Don't kn
Organization	organize information?		K			
	Specific comments?	Brentd	own of	mportan	t Section	us is m
	specific confinents:				ation 7	evt Place
	specific comments:	Clear	W/ co	OF T LOG	1 0	
	specific confinencia:	Clear is a	Tw/ con little d	ifficut	to forco.	N /
Overall	How do you rate this new poster?	<u>Clear</u> is a Excellent	Good	Fair	Poor	Don't kn
Overall	How do you rate this new poster?	<u>C(eor</u> js a Excellent	ω/ co. li++le d Good ⊠	<u>γ</u> <u> <u> </u> <u> </u></u>	<i>+₀ </i>	Don't kn
Overall	How do you rate this new poster? Specific comments?	<u>C(ear</u> is a Excellent	Good K K K K K K K K K K K K K	Fair	+0 €01(0. Poor □ ((oot +~	Don't kn □ Geve (~
Overall	How do you rate this new poster? Specific comments?	<u>Clear</u> is a Excellent <u>Frits</u> ill ust	Good Good A Cood Cood	Fair D Cession a are gr	to follo Poor □ 1 loot +- eat! To	Don't kn Don't kn Geel- et a.d
Overall	How do you rate this new poster? Specific comments?	Excellent $\frac{Fi4s}{110}$	Good Good A cupied rulied	Fair Fair Cession a cone gr is killin	Poor I loot +- ent! Too y me.	Don't kn Don't kn Greel - Hard Boldius
Overall	How do you rate this new poster? Specific comments?	Excellent \Box $i \le a$ T = i + s $i \le a$ $i \le a$ $i \le a$	Good Good A rutious rutious	Fair Fair Cession a are gr is killing chy coupli	Poor [loot +- ent! Tes ed with	Don't kno Don't kno Freel - Hard Boldius Short Lin
Overall	How do you rate this new poster? Specific comments?	Excellent	Good Good A continue	Fair Fair Cession a cession a is cillion range a or left	Poor Poor (loot +- ent! Tes ed with mount of	Don't kno Don't kno Freel - Et a.d Boldius Short Lin Ches at he
Overall	How do you rate this new poster? Specific comments?	Clear is a Excellent	Good Good A Capied radious radious Stan Lit we us St and Upp well po	Fair Fair Cession a are gr is killing runge a ch, rough runge a	Poor Poor (loot +- eat! Too ed with mount of herogh ro	Don't kno Don't kno Freel - H and Bolding Short 1 in C heg at it med e (se and une)

	Survey of Choking Emergenci Spring 2006 March	es Poster				
Language	How clear is the text in	Please answer the following questions by checking the appropriate box.				
		Excellent	Good	Fair	Poor	Don't kno
	the new poster to understand?					
	Specific comments?					
					/	
Illustration	How well do the illustrations explain	Excellent	Good	Fair	Poor	Don't kno
	each instruction?		Ľ			
	Specific comments?	Need -	to expl	in mon	e.	
		for example	mple, lain thes	add ma teps.	e compo	nents
Content	How well does this new poster	Excellent	Good	Fair	Poor	Don't kn
Organization	organize information?	Ľ				
	Specific comments?	But , īllus t r	hard to atrons.	map	the text	iato
Overall	How do you rate this new poster?	Excellent	Good	Fair	Poor	Don't kn
			K			
	Specific comments?	Need betw	to em een ag	pasize les .	the diff	krenæs

		Survey of Choking Emergenci Spring 2006 March	es Poster				
			Please ans by checkir	wer the fo	llowing que ropriate box	estions c.	
1	Language	How clear is the text in the new poster to understand?	Excellent	Good	Fair	Poor	Don't know
		Specific comments?	Growdela the si	mplicit	Fonts & y & ela	rity of	to emphasis - rie Instruct
	Illustration	How well do the illustrations explain each instruction?	Excellent	Good	Fair	Poor	Don't know
		Specific comments?	• high 1 +le in • cle	portent	circle is action	useful and f	tofocos ocal puints
			red men	arrsni it wel	is 5how	diretio	a of the but
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		Specific comments?	· color s in-	code	for: 1	organij	children ed logoat
		e under emerge.	«Y. Dort	1 de li	ke the c	ld perter utle on	marking our illustrations
	Overall	How do you rate this new poster?	Excellent	Good	Fair	Poor	Don't know
		Specific comments?	Cle	en inst	ruction	good (iolon Combin

	Survey of Choking Emergenci Spring 2006 March	es Poster
		Please answer the following questions by checking the appropriate box.
Language	How clear is the text in	Excellent Good Fair Poor Don't kn
	the new poster to understand?	
	Specific comments?	the texts are much easier to rest
		Db one doesn't thow easy way to read not organized at all.
Illustration	How well do the illustrations explain	Excellent Good Fair Poor Don't kr
	each instruction?	
	Specific comments?	Some of picture explain more of
Content Organization	How well does this new poster organize information?	Excellent Good Fair Poor Don't kr
	Specific comments?	Ventical color way is very good Horizoncal age cathegory is very easy to read both ways.
Overall	How do you rate this new poster?	Excellent Good Fair Poor Don't k
	Specific comments?	Overall design is very clean and
		1 like to see some more intuitive
		I like to see some more intuition It is very well organized. Good.
		L like to see Some more intuitive It is very well organized. Good.
	Survey of Choking Emergence Spring 2006 March	es Poster
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Language		Please answer the following questions by checking the appropriate box.
	How clear is the text in the new poster to understand?	Excellent Good Fair Poor Dor
	Specific comments?	MUCH FASIRED TO READ THROUG FENTINE PAGE. ALIGNMENT IS NO THE LARGE TITLE TELLS ME FRACE WHAT THIS POSTER IS ABOUT. THE A FOU, SECONDS ON OUD POSTER TO
Illustration	How well do the illustrations explain each instruction?	Excellent Good Fair Poor Dor
	Specific comments?	MUCH BETTER THEW OUD. I STILL, TO GO TRACK TO TEXT THOUGH. FOR EXAMPLIE - THE FUNGTION IN MONTH. WHY IS IT IN THERE
Content Organization	How well does this new poster organize information?	Excellent Good Fair Poor Dor
	Specific comments?	STATTED W LAUGUAGE STECT
Overall	How do you rate this new poster?	Excellent Good Fair Poor Dor
	Specific comments?	VERY WELL ORGANIZED. IT IS VERY CLEAR WHEN LOOK AT BOTH MAGZES - COPY A TO HOW TO HELP THE VICT

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	Survey of Choking Emergence Spring 2006 March	ies Poster				
		Please an: by checkin	swer the fo ng the app	ollowing qu propriate bo	estions x.	
Language	How clear is the text in the new poster to understand?	Excellent	Good	Fair	Poor	Don't know
	Specific comments?	Incr. Iabe	l as	steps"	Step nu D	mericilu
				(3	
Illustration	How well do the illustrations explain	Excellent	Good	Fair	Poor	Don't know
	Specific comments?	-Highi	<u>Shteel</u>	avea v	tugod.	
		- (3 + 	neve a move a of mo	detail?	Peuhops Mouth V	<u>a see thu</u> resus that in
Content Organization	How well does this new poster organize information?	Excellent	Good	Fair	Poor	Don't knov
	Specific comments?	600	1 U 3 e	of color	coding	
Overall	How do you rate this new poster?	Excellent	Good	Fair	Poor	Don't know
	Specific comments?					

	Survey of Choking Emergence Spring 2006 March	es Poster
		Please answer the following questions by checking the appropriate box.
Language	How clear is the text in the new poster to understand?	Excellent Good Fair Poor Don't kno
	Specific comments?	Controst between text and "L.loc, beige, Green bockground could be higher (while text on These bockgrounds is maybe toolow combest) (Much better "readobility" agenall flow correct
Illustration	How well do the illustrations explain	Excellent Good Fair Poor Don't kno
	each instruction? Specific comments?	"Inpuls" step showing & book blows for
	I did not notice boots	with "5x" overprinted on graphe ?? With "5x" overprinted on graphe?? (or maybe the horizontal line splitting topphate frome could be thicker ??)
Content Organization	How well does this new poster organize information?	Excellent Good Fair Poor Don't know
	Specific comments?	I like the color ading of columns - much ther usual organization than corre
Overall	How do you rate this new poster?	Excellent Good Fair Poor Don't kno
	Specific comments?	Better organice & viscelly then curvent po
		Orphic of Schest/Sbet blows not clear Disn't redize toppome = battlows biterfrome = chytblows (2) Notelearthat Srepetitions recommande for prost chest, Sforbet.

	Survey of Choking Emergence Spring 2006 March	ies Poster				
		Please an by checki	swer the fo ng the app	ollowing qu propriate bo	estions x.	
Language	How clear is the text in the new poster to understand?	Excellent	Good	Fair	Poor	Don't kno
	Specific comments?	Nokin <u>Second</u> unfan Urma	Redice nend a Hs ever isunder	bdomini bdomini Dough stood.	r (fdoe al Mrus Pratis n	snot ts far ofted caul
Illustration	How well do the illustrations explain	Excellent	Good	Fair	Poor	Don't kno
	Specific comments?	× 	u er trac	protos	\$	
Content Organization	How well does this new poster organize information?	Excellent	Good	Fair	Poor	Don't kno
	Specific comments?	De Ho	r organ	rization		
Overall	How do you rate this new poster?	Excellent	Good	Fair	Poor	Don't kn
	Specific comments?	X exept new at	移 dho na Doutab	te cleer	e on infa,	ts roled

	Survey of Choking Emergencies Poster Spring 2006 March						
		Please an: by checkin	swer the fo ng the app	llowing qu ropriate bo	estions x.		
Language	How clear is the text in the new poster to understand?	Excellent	Good	Fair	Poor	Don't kn	
	Specific comments?						
Illustration	How well do the illustrations explain	Excellent	Good	Fair	Poor	Don't kr	
	Specific comments?	Dn se	me the etail (In	://us/vn (ant) +>	Lion may show face	15e me	
Content Organization	How well does this new poster organize information?	Excellent	Good	Fair	Poor	Don't kr	
Content Organization	How well does this new poster organize information? Specific comments?	Excellent Maybe numb dewn	Good	Fair B Densciou n co per of act	Poor D eple know voss.	Don't kr D <u>steps</u> w for rea	
Content Organization Overall	How well does this new poster organize information? Specific comments? How do you rate this new poster?	Excellent Maybe numb dewn Excellent	Good □ • "unc er they instead Good	Fair Bair Cof act	Poor Poor eple know vess. Poor D	Don't kr	
Content Organization Overall	How well does this new poster organize information? Specific comments? How do you rate this new poster? Specific comments?	Excellent Maybe numb dewn Excellent D Ts fe	Good □ er "anc er they instead Good ⊠ Good	Fair Fair Fair Fair Fair	Poor Poor epte know vess. Poor Dan begin	Don't kr	
Content Organization	How well does this new poster organize information? Specific comments? How do you rate this new poster? Specific comments?	Excellent Maybe numb dewn Excellent Ts fe	Good Good Good Good Good	Fair Bair Conscious Magazia Fair Conscious Fair Conscious Fair Conscious Fair Conscious Fair Conscious Cons	Poor Poor epte know vess. Poor Dan begin	Don't kr	
Content Organization	How well does this new poster organize information? Specific comments? How do you rate this new poster? Specific comments?	Excellent Maybe numbe dewn Excellent Ts fe	Good Good Good Good Good	Fair S COLSCION S COLSCION Fair Fair C Fair C Fair C	Poor Poor eple know voss. Poor Poor Dan begin	Don't kn	

	Survey of Choking Emergenci Spring 2006 March	es Poster				
		Please an by checki	swer the fo ng the app	llowing que ropriate bo	estions x.	
Language	How clear is the text in the new poster to understand?	Excellent	Good	Fair	Poor	Don't know
	Specific comments?		the stre	f bre ze be inaze	uthes/c Her In S	ompress nked
Illustration	How well do the illustrations explain each instruction?	Excellent	Good	Fair Ø	Poor	Don't know
	Specific comments?	proto may	s wer be son	k beffe ne sha	v ding to	show 3
Content Organization	How well does this new poster organize information?	Excellent	Good	Fair	Poor	Don't know
Content Organization	How well does this new poster organize information? Specific comments?	Excellent	Good	Fair	Poor	Don't know
Content Organization Overall	How well does this new poster organize information? Specific comments? How do you rate this new poster?	Excellent	Good Good	Fair Fair	Poor	Don't know
Content Organization Overall Ne only tween a st of bro	How well does this new poster organize information? Specific comments? How do you rate this new poster? Specific comments? Therefore the child out is and child	Excellent Excellent	Good Good U ever yes de U.	Fair Fair X zaniza	Poor Poor Poor Poor Poor Poor	Don't know Don't know Don't know Don't know Don't know

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	Survey of Choking Emergencies Poster Spring 2006 March						
		Please and by checkin	swer the fo ng the app	llowing que ropriate bo	estions x.		
Language	How clear is the text in the new poster to understand?	Excellent	Good	Fair	Poor	Don't know	
	Specific comments?	I like the oni "Ched than" Victor	e the ginal L' L'a 'Check 's Age.	text-it Havveve 111″ sto situati "	is conso r, in-the end out v en" & "C	lodated fi - original nuch bet- ionsider	
Illustration	How well do the illustrations explain	Excellent	Good	Fair	Poor	Don't know	
	each instruction?			X			
	Specific comments?	For s a little drown three	e have g dep mgs, e wat. #	the o to un of to un special takes	<u>derstan</u> <u>ecause</u> My for metime where	ys it is d timat is of the lin conscious to decipi it doesn't	
Content	How well does this new poster	Excellent	P Good	Fair	Poor	Don't know	
Organization	organize information?	ø					
	Specific comments?	Jn th how the Section sector	the con one a sense t	poster is cious re oro o me. C	I really Juncos anized. anized. whethe	- this me unconscious it is good	
		leff t	he stops	Ver fical	Poor	Don't know	
Overall	How do you rate this new poster?		Ø				
	Specific comments?	Like Inis the sugg to u	1,2,3 St ubud Vertic est mo	especie al steps lung p the new	e origin Jily heli s. Ida oster hu organit	nal poster p with ally-I h rizontal zational	
		to he follow Enc	the h	UCN E 11 C Steps Utural re Okosug ar pho	end and in the second s	toright to toright to xathernite within the o	

	Survey of Choking Emerg Spring 2006 March	jencies Poster
		Please answer the following questions by checking the appropriate box.
Language	How clear is the text in the new poster to understand?	Excellent Good Fair Poor Don't kno
	Specific comments?	Place text in the beginning is kind of smo
		ape group (for a second which sop
Illustratio	n How well do the illustrations exp each instruction?	olain Excellent Good Fair Poor Don't kno
	Specific comments?	Too small. The part Att Start For the unconscious it's just the some 3 but the different planus makes it hak all compliated. However, it haks # like the infant chost congression step is different (uses finger
Content Organiza	How well does this new poster organize information?	Excellent Good Fair Poor Don't kno
	Specific comments?	It lusks "pretty" but given the put see of this pister. Time is of the easence. It's still a lit t take in. The vertical structure is harder to read than the howizantal. It's and nature to cross than read down.
Overali	How do you rate this new poste	r? Excellent Good Fair Poor Don't kno
	Specific comments?	Looks slightly cleanes but down't look that much easier to read than one

	Survey of Choking Emergencies Poster Spring 2006 March						
		Please an: by checkin	swer the fo ng the app	ollowing qu ropriate bo	estions x.		
Language	How clear is the text in the new poster to understand?	Excellent	Good	Fair	Poor	Don't kno	
	Specific comments?						
Illustration	How well do the illustrations explain	Excellent	Good	Fair	Poor	Don't kno	
	Specific comments?			4			
Content Organization	How well does this new poster organize information?	Excellent	Good	Fair	Poor	Don't kno	
	specific comments?	1 II C	1404	- from	~		
Overall	How do you rate this new poster?	Excellent	Good	Fair	Poor	Don't kno	
a	Specific comments?) [llustrad	tion are af ar	harder emer	tounderst igency	ind ina	
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oteasy Tud Nor	mal	» Adu child	,1+ Even	-			

Please answer the following questions by checking the appropriate box. Language How clear is the text in the new poster to understand? Excellent Good Fair Poor Do Specific comments?	Don't kno
Language How clear is the text in the new poster to understand? Excellent Good Fair Poor Description Specific comments?	Don't kno
Specific comments?	Don't kno
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Specific comments? Specific comments? Specif	M HK. Cons
intart illust & text tor Victuri · ext., color coo Khaki green eiho that Organization des this new poster organize information? Excellent Good Fair Poor D Specific comments? The native approach is sig. improvement.	cans
Content Organization How well does this new poster organize information? Excellent Content organize information? Good Content Cont	de 7 use
Specific comments? The natricy approach is signific to mark in the second secon	Don't kno
	is a
Overall How do you rate this new poster? Excellent Good Fair Poor D	Don't kn
Specific comments? At first, of thought the	- He
The illustration gre 7 Good of the 'spitl	véy light
attention to fitte	ind

	Survey of Choking Emergence Spring 2006 March	ies Poster				
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Illustration	How well do the illustrations explain	Excellent	Good	Fair	Poor	Don't kn
	each instruction? Specific comments?	□ <u> </u>	DQ pictures	□ ; of pe	ople <u>vi</u>	□ íllvstratio
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Organization	organize information? Specific comments?	Simple T Need	- Quich	the get	to instru essence	ctions + this
		is mu life d Quickly	ch qui i listinction identific	cker. of con Adult (hild or I	r unconsci infant = Ex
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	Specific comments?	lite fo	ws/hig	light o	f area f	o foieus i

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Illustration	How well do the illustrations explain	Excellent	Good	Fair	Poor	Don't kno
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	Survey of Choking Emergence Spring 2006 March	es Poster						
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	each instruction?							
	Specific comments?	_are	a th	ng helps lead my, the steps.				
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	Survey of Choking Emergence Spring 2006 March	ies Poster				
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	Survey of Choking Emergencies Poster Spring 2006 March						
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		this	helps	Since	it is org	ganized
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Survey of Choking Emergenci Spring 2005 March	es Poster			
	Please answer the fol by checking the appr	lowing qu opriate bo	estions x.	
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١., **Survey of Choking Emergencies Poster** Spring 2006 March Please answer the following questions by checking the appropriate box. Language How clear is the text in Excellent Good Fair Poor Don't know the new poster to understand? X Ċ1 Specific comments? nconse Nl I otters Gmall Illustration How well do the illustrations explain Excellent Good Poor Fair Don't know each instruction? X Not really sure rat the arrou Specific comments? mean Content How well does this new poster Excellent Good Poor Don't know Fair Organization organize information? Specific comments? Excellent Poor Overall How do you rate this new poster? Good Fair Don't know X Specific comments? n

	Survey of Choking Emergence Spring 2006 March	ies Poster				
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The new poster like is analy:	definety is better organize - the in one column to read.	swreep the rest	-> make o of the serv	the wo	nd not bol	d for empha
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I must say f more dufwi over illustre Content Organization	he photosraphs convey a bit L that is more comforting to fe trans - + 2 Showing the rib case of How well does this new poster organize information? Specific comments?	Excellent	Good Good	Fair	Poor	Don't kno
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	Survey of Choking Emergence Spring 2006 March	ies Poster				
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Comments on the back page of previous survey