

TRAIN OF THOUGHTS DESIGNING THE EFFECTIVE WEB EXPERIENCE

JOHN C. LENKER, JR.





TRAIN OF THOUGHTS DESIGNING TO THE WEB EXPERIENCE

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TRAIN OF THOUGHTS—Designing the Effective Web Experience

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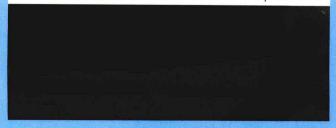
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Dear Reader:

As the reader of this book, you are our most important critic and commentator. We value your opinion and want to know what we're doing right, what we could do better, in what areas you'd like to see us publish, and any other words of wisdom you're willing to pass our way.

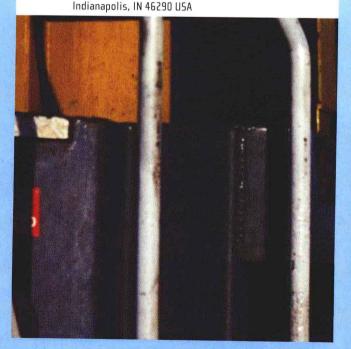
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Finally, to Truth, I say thanks.



I dedicate this book to the memory of my father, JOHN C. LENKER (1941-1994).

In his life he both dreamed big dreams and worked hard to realize those dreams. From a cook in a small-town pizza joint, to a captain in the Marine Corps, to the president of Green Giant, Europe; he pursued excellence in everything that he did. He's the example that has always inspired me to strive to do the same.

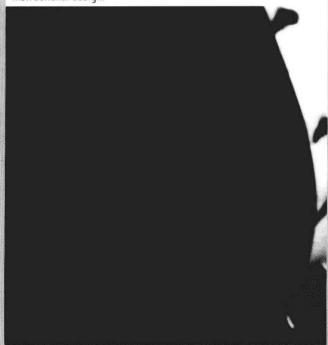
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Over the past five years, she worked on projects for numerous Fortune 500 companies as well as the US Air Force. Her work has been featured in Flash 5 Magic and Flash 5 Cartoons and Games. Her collaboration with Allen Interactions has sparked a relentless pursuit to blend human psychology and usability factors with innovative design and technology.

Originally from Detroit, she holds a BFA from Wayne State University, graduating with top honors. Jennifer currently resides in Minneapolis and enjoys design, computers, photography, travel, cooking, and biking. Her work can be viewed at http://www.jenniferjesse.com.



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Steve has a B.A. from Minneapolis College of Art and Design (MCAD) where he majored in interactive and graphic design. He also holds a Bachelor of Individualized Studies from the University of Minnesota, which emphasized marketing and organizational psychology.

Steve has won numerous awards including, HOW magazine—Interactive Design Annual 2000, Best of Show and CMYK Interactive 2000—Best of Show, as well as numerous scholarships.

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Brad is a freelance graphic designer based in Minneapolis. His interests and capabilities also include illustration, furniture design, and industrial design. He has passion for appreciating and creating meaningful and affordable utilitarian design accessible to everyone.

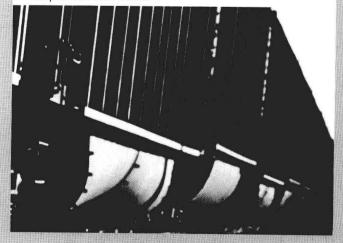
Brad received a BFA from the Minneapolis College of Art and Design (MCAD), where he garnered top honors. He was awarded the Wanda Gag Merit Scholarship, the Yamamoto Moss Merit Scholarship, and the Van Derlip Award. Since graduating, he has done work for 3M, Martin/Williams, Uno, and invioni.

In his time away from the mouse and keyboard, Brad enjoys seeing, creating, reading, Frisbee golf, good food, and good company.

For more information about Brad Randall and to view an online sample of his portfolio visit http://www.trainofthoughts.com.

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- > Catherine Russell
- > Stephen and Carol Randall



FOREWORD: DR. MICHAEL ALLEN

This book isn't politically correct. It's just plain correct.

At least for the moment.

If ever there were an example of ready, fire, aim, it's the Web. What an unexpected spurt of growth it had—from an indispensable form of document sharing among governmental and university research organizations, to the ubiquitous backbone of contemporary communications and commerce it has become almost overnight!

It isn't right to cry out "Who could see it coming?" however. Many visions of the future have included descriptions of universal, instantaneous access to information. Every Star Trek fan knew that someday we'd just ask the computer for any information or analysis we needed, with most results politely returned in just a moment often without a delay in the rhythm of conversation.

What we didn't see was how fast the future would arrive, and we weren't prepared for it on a broad scale. Of course, as Yoqi Berra said, "The future isn't what it used to be." If this book were politically correct, it would continue to portray the future and the Web as we saw them years ago. And it would not be correct.

After years in its cocoon, the Internet's metamorphosis produced something of a giant moth. Suddenly, the Web was everywhere, overtaking postal services and forcing telephone systems to embrace it or fall to the wayside. Computer operating systems needed optimization for access, computer applications needed to become Web-compatible, and people—well, people needed to learn new applications, new behaviors, new jargon, and adapt. To be in fashion, corporations needed to provide new services, staff differently, compete differently, market and sell differently whether they knew why or not. No one would say the impact of the Internet has been anything less than profound, although to find an unanimously upheld evaluation might be more than difficult. At the very least, the moth ate holes in many long-lived if not stodgy structures.

Has its effect been good or bad? It's too soon to tell. There has been some good, some bad. The fact is, we're not ready for the Web yet. Sure, many of us have been working on interactive applications, tools for their development, and principles of design for decades. But with the sudden advent of an omnipresent Web, legions of designers and developers have undertaken the challenge of designing Web sites. These people are smart, energetic, and talented. They are at home with technology, cool design, and creativity. They are off and running, but they don't know where they are going. Many become lost and drop out before getting their Web applications launched. Others regrettably unveil Web applications that do their owners in or succeed only in causing a radical reconsideration of the scope and nature of the task at hand.

What's wrong? Simple. Energy and good intentions do not a good Web site make.

The models emulated by so many are close derivatives of models appropriate for print publications. They are flat, non-interactive, uninteresting, boring. They are content-centric, imperfect in design, and of doubtful value on most viewers' screens. As John says, "Because many experience designers view design for the Web as an extension of print design, much of the multimedia that's produced for the Web is perceptually ineffective." Indeed.

This book is correct. At least for the moment.

There is a tremendous amount to be learned as we experiment with the Web and explore new uses and new designs. We will know more, probably much more, about good design in the future. But what John shares in this book is unfortunately the needlessly uncommon wisdom of today. In Web design, the "just do it" philosophy hasn't worked out so well.

What should be known more widely is that much current design is bad—dreadfully bad. John is not hesitant to point out wide ranging



weaknesses from the rampant tendency to force feed content down the throats of Web guests to the details of design aesthetics that destroy many effective long-lasting relationships between people and Web services.

Until Web sites are people-focused and experience-focused, instead of being content-focused; innumerable misperceptions about what can be achieved through the Web will constrain its second metamorphosis in which it will become something beautiful, pleasant, and indeed welcome. The technology is here, although it could easily be much better, and the opportunity is here too as millions have affordable, convenient access, but there has been too much focus on the technology and the message rather than on the true purpose of the experience and desired outcomes.

Train of Thoughts provides a clear destination. People have rightly criticized the inefficiency of Web experiences and their poor user interfaces. They are there and they are horrific. But correcting inefficiencies and user interfaces doesn't get us where we really want to be. We need not to be in a place of doing things right as much as one where we're doing the right things.

John properly sees the Web as a purveyor of personal experiences that meet our needs not only efficiently but effectively. Without mincing words, John decries concerted efforts to reach efficiency in senseless, worthless experiences—the "ditches of mediocrity." We can do better. It is known how to do better. We must do better.

When the Web is done right, we learn, we buy, we experience, we laugh, we grow, we return with enthusiasm because our time is well-spent. We feel connected with others through the technology, not separated and isolated. We feel appreciated because our individual values and preferences are honored. We are glad to live in the time of the Web.



This book is correct. At least for the moment.

John is clear about not only where we need to go, but also how we can get there. As our experience grows, we will undoubtedly find better ways to produce the experiences and outcomes we seek. But processes that work have been devised, applied, and tested. Why not spend a little time learning how to save a lot of time?

As have many others, I spent a lot of time teaching students an essentially linear method of application design that we now know to have very objectionable flaws. As we worked to remedy the flaws, we evolved our processes into much better approaches which are iterative and far more effective. Those many people who have not been acquainted with more effective approaches will find this book enlightening—maybe invaluable. Experience teaches us much, but unless that experience is shared, its value is minute.

When John first joined Allen Interactions Inc. he brought with him an enormous creative talent that we were happy to tap. In exchange, we did our best to share with him our experience in the design and development of interactive applications that "enhance the human mind and spirit" (our mission statement). As all teachers hope, the student has become the teacher. John has absorbed and synthesized outcomes from his wide-ranging experiences and shared very useful and often very pragmatic advice. The case studies and galleries alone will make your time with the book beneficial. Most of all, we hope you will join the campaign for Web designs that are not only tolerable but also enriching to our lives in a complex world.

Michael W. Allen



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4	i1.00.01	Enter the 'usability' experts.
4	i1.00.02	The movement toward accepting usability as the de facto governing philosophy for Web experience design has largely been
į		driven by Dr. Jakob Nielsen.
5	i1.00.03	Hopes for the Web have been dashed.
6	i1.00.04	My purpose in writing this book is neither to dismiss all usability standards carte blanche nor to endorse the notion that
		creativity is the dominant consideration when designing and developing an online resource.
7	i1.00.05	Warning: This book was not written to acquiesce to the status quo of established industry 'best practices.'
7	i1.00.06	Disclaimer: I'm neither a psychologist nor a social scientist.

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- 23 01.03.02 The Web is a vehicle for emotional fulfillment.
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CHAPTER 02

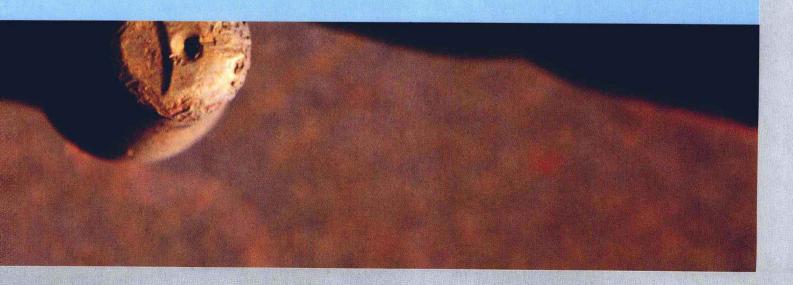
PAGE NUMBERS

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		online communication.
	64	02.03.07 The steps in our three-part communication model are iterative, not linear.
	65	02.03.08 This iterative communication model works like a corkscrew.
	65	02.04 SUMMARY



CHAPTER 03

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68	03.00 COMPOSING NOTIONS—MAKING ONLINE INFORMATION MEANINGFUL	
70	03.00.01 Effective examples of notion sequences aren't encountered very often on the Web because the role of hierarchy in the	
	organization of information has been widely misunderstood.	
71	03.00.02 The need to keep people on track is a familiar concept, but why is it so important?	
72	03.00.03 To understand an information flow, it's helpful to first look at it from the microlevel and then from the macrolevel.	
74	03.00.04 Note that trains are of variable lengths.	
74	03.00.05 To illustrate the variable nature of message length, let's examine a simple message that expresses the idea 'I love you.'	
75	03.00.06 The main distinction between a thought and an idea is that a thought is easy to express in a moment.	
76	03.00.07 Notions are the pearls that we string together to make our online messages valuable.	
77	03.00.08 Experiential needs must be considered at the microlevel as much as they need to be considered at the macrolevel.	
77	03.00.09 An effective notion provides the next rung in a person's ascent into understanding.	
78	03.00.10 It's as important that we consider how people will embrace each notion as it is important that we consider how people will	
	embrace the whole of a message and of an online resource in general.	
79	03.00.11 What are permissible tolerances?	
79	03.00.12 What is functional efficiency?	
81	03.00.13 What makes a pattern complete?	
81	03.00.14 How do we subordinate design to an objective?	
82	03.00.15 We find meaning in a notion by associating the thought it expresses with what we already know and then by reflecting upon it	
	until we gain either deeper or broader insight.	
83	03.00.16 As mentioned in 02.00.04, the Cognitive Constructionist Theories address how we form and maintain our conceptual	
	frameworks—sometimes referred to as knowledge structures, schema, or mental-models.	
83	03.00.17 Interestingly, we don't actually remember everything about a stimulus that we perceive.	
84	03.01 EXPECTATION INFLUENCES THE EFFICIENCY OF COMPREHENSION	
84	03.01.01 Expectations vary depending on the primary nature of a person's consumptive motivation.	
85	03.01.02 Knowledge—People generally expect that finding an online resource with appropriate information for their interests will take	
	some effort.	
86	03.01.03 Products—People's expectations vary when seeking products on the Web depending on the product's category.	
87	03.01.04 Services—Expectations for services-related resources also vary depending on the type of service being sought.	
88	03.01.05 Diversion—Resources that offer diversions such as games, chats, and imagery on a free basis are not expected to be of the same	
	caliber as resources that offer these same services for sale.	
90	03.01.06 Propaganda—When people decide to invest some of their valuable time consuming information about a cause, they realize that an	
	organization is attempting to persuade them, sway their thinking in some way, or solicit a contribution.	
90	03.01.07 People's expectations regarding how technology should function vary widely.	
91	03.01.08 When expectation is met with realization, a person's mind becomes engaged in the flow of information.	

