

CONTENTS

PREFACE	ix
ACKNOWLEDGEMENTS	x
INTRODUCTION	xi
1. CLARIFYING THE VISION	1
What exactly are dashboards? For what purposes do we use them? From what precedents did they arise? Why are they important? Why do they often fail?	
2. THIRTEEN COMMON MISTAKES IN DASHBOARD DESIGN	35
The fundamental problems with most dashboards stem from poor design. What are the common design mistakes that dashboards exhibit, and why do they matter?	
3. ASSESSING WHAT'S NEEDED	59
How can we assess what people really need from dashboards before the design process begins?	
4. FUNDAMENTAL CONSIDERATIONS	65
What basic questions should we ask to determine how a dashboard should be designed? These questions address issues such as frequency of use, the nature and experience of those who will use it, the size of the screen on which it will be displayed, and the type of data it will be used to monitor. What are the primary features that we should require of software products that are used to develop dashboards?	
5. TAPPING INTO THE POWER OF VISUAL PERCEPTION	77
What must we understand about visual perception (seeing) and cognition (thinking) to design dashboards that will work effectively for people's eyes and brains? What specific design practices should we follow to achieve this?	
6. ACHIEVING ELOQUENCE THROUGH SIMPLICITY	93
How can we display a great deal of information in a way that people can rapidly monitor and understand? What are the key characteristics of a well-designed dashboard? How can we achieve eloquence of communication through simplicity of design?	

7. ADVANTAGES OF GRAPHICS	113
Why should information be displayed graphically on a dashboard whenever possible? What can graphics provide that text-based displays cannot?	
8. AN IDEAL LIBRARY OF GRAPHS	119
What types of graphs are particularly useful on dashboards, and how should we design them?	
9. DESIGNING BULLET GRAPHS	151
The bullet graph is a gauge-like form of display that was designed specifically for dashboards. In what ways can bullet graphs be designed to support various purposes?	
10. DESIGNING SPARKLINES	159
Sparklines are a powerful way to concisely show historical information on a dashboard. In what ways can sparklines be designed to support various purposes?	
11. OTHER DASHBOARD DISPLAY MEDIA	177
In addition to graphs, what other forms of display are useful on dashboards, and how should we design them to work most effectively?	
12. CRITICAL DESIGN PRACTICES	183
Aside from selecting the best means of display for each element of information, what other design practices should we follow to produce effective dashboards?	
13. PUTTING IT ALL TOGETHER	203
The proof is in the pudding. When the design practices taught in this book are followed, what's the result? What do well-designed dashboards look like and what can they do?	
14. FROM IMAGINING TO UNVEILING	235
What steps are involved in the dashboard design process? How should we introduce a dashboard design to those who will use it? How do we confirm a design's effectiveness?	
INDEX	243