# Designing Effective Speech Interfaces

*Susan Weinschenk, Dean T. Barker*

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**Designing Effective Speech Interfaces** Susan Weinschenk, Dean T. Barker
Master the critical knowledge you need to design speech-enabled applications It's not just a far-fetched gizmo straight out of a sci-fi movie anymore. Speech interface technology, which allows a user to communicate with computers via voice instead of a keyboard or a mouse, is quickly becoming a main feature in new software. This straightforward guide provides traditional graphical user-interface designers, developers, usability engineers, and product managers with all the information they need to make a rapid transition in order to stay abreast of this monumental shift in technology. Weinschenk and Barker, two experts in state-of-the-art online communication, discuss the basics of speech interfaces and speech technology, hardware, and software. They clearly explain the interface design principles that are applied to S/GUI and AUI interfaces and describe the latest practices of leading experts. In addition to its in-depth look at speech technologies and the different types of user interfaces, this book: Provides an overview of the field of human factors and defines the basic concepts of human computer interaction Discusses the current state of speech technology applications Explains the laws of human factors that apply to speech interfaces Contains guidelines and examples for user control, human limitation, model integrity, accommodation, clear dialogue, and aesthetic integrity Details the best practices in interface design and usability engineering Explores the special issues involved in interface design for disabled persons Visit the companion web site at www.wiley.com/compbooks/weinschenk/ for a categorized resource list of speech, speech interface, and human-computer interaction books, articles, and links.

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