



USER INTERFACE DESIGN

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Product Description

This authoritative textbook, *User Interface Design*, is a comprehensive and practical guide dedicated to mastering the art and science of building modern, responsive, and engaging web interfaces. The book is structured around the practical application of essential front-end technologies, providing a clear path for readers to transition from foundational markup to advanced dynamic design.

The core theme revolves around the latest standards, specifically providing an in-depth exploration of HTML5 and CSS3. Readers will gain proficiency in crucial contemporary features such as semantic document structuring, rich media integration (native audio and video), client-side data persistence via Web Storage, and interactive capabilities using the Canvas API for 2D graphics. Furthermore, it covers advanced techniques like implementing Geolocation for location-aware applications and leveraging frameworks like Bootstrap for efficient, responsive layouts.

Authored by experts in Information Technology, this resource is invaluable for a broad audience: students and academics in Computer Science and Web Development seeking a strong theoretical and practical foundation, as well as aspiring and practicing web professionals looking to update their skills with current industry standards. By offering detailed code examples and focusing on practical value, the book ensures that readers can immediately apply these powerful tools to create high-performing and user-centric interfaces.

Salient Features:

- **Semantic HTML5 Mastery:** Covers new HTML5 elements like `<article>`, `<section>`, and `<header>` to help readers create a meaningful, better-structured, and more accessible document outline.
- **Rich Media Integration:** Detailed instruction on embedding and controlling native audio and video content using the `<audio>` and `<video>` tags, eliminating reliance on external plug-ins like Flash.
- **Client-Side Capabilities:** Explores powerful browser APIs, including Geolocation for location-aware apps and Web Storage for persistent, secure client-side data handling (local and session storage).
- **Dynamic Graphics Design:** Provides practical instruction on using the Canvas API with JavaScript to create programmable, two-dimensional graphics, facilitating the development of complex interactive visuals.
- **Responsive Design Frameworks:** Features a comprehensive guide to CSS3 and its advanced features, alongside



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