# Enhanced Reveal.js Deck — User Manual

This manual explains the features added to the enhanced Reveal.js presentation deck, how to use them, and their advantages. It serves as a guide for presenters and developers working with the customized index.html.

## 1. Setup & Requirements

Reveal.js requires only a modern web browser. Place the enhanced index.html inside a Reveal.js folder that contains the standard dist/ and plugin/ directories. Open the file in a browser or run a static server.

## 2. Core Enhancements

• Progress Bar — Displays progress at the bottom of the screen.  
 - Use: Enabled automatically, no action required.  
 - Advantage: Audience sees how far along the presentation is.

• Slide Numbers — Shows current/total slide number.  
 - Use: Enabled automatically, appears on each slide.  
 - Advantage: Useful for referencing slides during Q&A.

## 3. Whiteboard Overlay (Draggable)

• What: A fullscreen canvas for sketching annotations.  
• How to Use:  
 - Click ✏️ Whiteboard (top-right, draggable).  
 - Adjust color/size from toolbar.  
 - Clear drawings with the Clear button.  
 - ESC or 'W' closes/toggles.  
• Advantages: Great for teaching, highlighting, or drawing diagrams live.

## 4. Slide Minimap (Draggable)

• What: A navigational panel with dots for each slide.  
• How to Use:  
 - Click 🗺️ Minimap (top-left, draggable).  
 - Click dots to jump between slides.  
• Advantages: Quick navigation, clear overview of presentation structure.

## 5. Media Effects Panel

• What: Apply visual effects (Glitch, VHS, BlurPulse) to slide media.  
• How to Use:  
 - Use FX panel (bottom-left) to select effects.  
 - Works on elements with class .fx-target.  
• Advantages: Adds cinematic emphasis to images/videos/text.

## 6. Slide Overlays

• What: Decorative overlays per slide.  
• How to Use:  
 - Add data-overlay="dark|grid|dots" to a <section>.  
 - Optional badges/ribbons can be added for labels.  
 - Press 'O' to toggle overlays globally.  
• Advantages: Visual variety, structural emphasis without full theme change.

## 7. Live Code Playground

• What: Editable HTML/CSS/JS panel with live preview.  
• How to Use:  
 - Edit the textarea code.  
 - Press Run ▶ to update the iframe preview.  
• Advantages: Ideal for demos, tutorials, and interactive teaching.

## 8. Terminal Simulation

• What: Styled terminal block auto-types commands and outputs.  
• How to Use:  
 - Visit the slide; animation plays automatically.  
 - Leaving and returning replays it.  
• Advantages: Shows workflows without running live commands, avoiding demo failures.

## 9. Dynamic Media Filters

• What: Sliders to adjust blur, grayscale, hue, brightness, contrast.  
• How to Use:  
 - Move sliders; target image updates instantly.  
• Advantages: Demonstrates visual transformations live.

## 10. Drag-and-Drop Blocks

• What: Movable nodes for brainstorming diagrams.  
• How to Use:  
 - Drag nodes within the canvas area.  
• Advantages: Build diagrams or flows interactively during talks.

## 11. Local Live Poll

• What: Simple poll with buttons and live bar chart.  
• How to Use:  
 - Click a button (React/Vue/Svelte) to vote.  
 - Bars update instantly.  
• Advantages: Engage audience; test knowledge or gather opinions.  
• Note: Can be extended with WebSockets for multi-device voting.

## 12. Keyboard Shortcuts

• W — Toggle Whiteboard  
• O — Toggle Overlays  
• ESC — Close Whiteboard  
• Arrow keys — Navigate slides  
• S — Speaker notes (Reveal.js built-in)  
• B or . — Pause presentation (built-in Reveal.js)

## 13. Advantages Summary

• Enhances interactivity and audience engagement.  
• Adds professional polish through overlays and effects.  
• Supports teaching via whiteboard, playground, and filters.  
• Improves navigation and clarity with minimap and slide numbers.  
• Encourages live collaboration and brainstorming.  
• Keeps presentations flexible and future-proof through modular design.