Stand-alone eBook Navigation

A Stand-alone eBook is a collection of related CDF files with a unified navigation system. It is distributed to the user as an independent app via the App Store, and includes the CDF kernel as part of the deployment. Standalone eBooks open to a cover image, and then load an in-document table of contents. Navigation within the content is also made available via pop-over (as shown).

Splash Screen



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iPad 奈	9:24 PM		11 11	first launch, the book opens to t
	Index		cor the	ge', which is an expandable index ntents. The information contained same as what is presented in th
Introduction to Cal	culus			er navigation, just in an expanded ebook can likely be used for this
Chapter 1: Functions		Touching the disclosure triangle OR the		
Chapter Preview		associated row expands/collapses the associated content.		
1.1 Review f Funct	ons			
Introduction		Touching a non-oxpandable item links the		
Functions		Touching a non-expandable item links the user to the corresponding page.		
Composite Functions				
Secant Lines and the	Difference Quotient			
Symmetry				
Quick Quiz				
Section 1.1 Exercises				
1.2 Representing F				
1.3 Inverse, Expone				
	unctions and Their In	nverses		
Chapter 1 Review E	xercises			
Chapter 2: Limits				
Chapter 3: Derivati	ves			insitions to new pages occur via animation (unless the alternate
Chapter 4: Applica	ions of the Derivati	ives	nav ver	vigation style is chosen, in which tical scroll should accompany th nsition).
Chapter 5: Integrat	ion		li al	
Chapter 6: Applica	ions of Integration			
Chapter 7: Integrat	ion Techniques			

On first launch, the book opens to the 'first page', which is an index made up of a browsable hierarchy of Miller columns. The information contained here is the same as 9:24 PM - what is presented in the pop-over navigation, just in an expanded form. Note that this interface would likely need to be built using Index native code, as we don't have a construct for multi-column layouts in notebooks. Chapter Preview Chapter 1: Functions 1.1 Review of Functions Chapter 2: Limits 1.2 Representing Inctions Chapter 3: Derivatives Touching a row with a disclosure indicator will cause the next column in the hierarchy to be Chapter 4: Applications of the Deri... > 1.3 Inverse, Exponential, and Log... > displayed. 1.4 Trigonometric Functions and... > Chapter 5: Integration Chapter 6: Applications of Integrat... > Chapter 1 Review Express .] Chapter 7: Integration Techniques \checkmark Touching a row without a disclosure indicator links the user to the corresponding page. Chapter 8: Differential Equations Chapter 9: Sequences and Infinite... Chapter 10: Power Series Chapter 11: Parametric and Polar... Chapter 12: Vectors and Vector-Va... > In content with multiple layers of Chapter 13: Functions of Several... > hierarchy, the Miller column view can be panned horizontally. The edge of Chapter 14: Multiple Integration the next/previous column should always be visible as an affordance for Chapter 15: Vector Calculus users. Because the swipe gesture is used for intra-page navigation, next page gestures should be disabled. Chapter 16: Second-Order Differen... Chapter 17: Support Transitions to new pages occur via a page flip animation (unless the alternate intra-page - navigation style is chosen, in which case a vertical scroll should accompany the transition).

Quick Navigation



Page Loading Behavior







Interactive Objects

Manipulates and 3D objects are a cornerstone function of CDF functionality, and the interactions are necessarily different on touch devices than they are on desktops. On iOS, the controls for Manipulates are moved into a docked control panel, similar to a keyboard, and the viewport for the content is shrunk to accommodate.



Color Picker

Used for ColorSetter and ColorSlider. ColorSetter generally uses the system-default color picker (which is not provided by iOS), and ColorSlider generally uses a thumbnail sized hue spectrum (which is simply incompatible with touch). This interface makes it possible to set a precise value for a color without needing to enter numbers manually.



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atica's named colors, and g one inserts that name into	
t selecting a color (on any	Hue
<i>s not</i> automatically close the ; rather, the user may close it	
ing anywhere outside the	Saturation
	Brightness
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g to another tab in the color	<i>Q</i> /
nould retain the current color n to its nearest neighbor in y selected color space	Palette RGB
ng grayscale, which only prightness information).	
	
	Cyan
	Magenta
	Yellow
	Black
	Opacity
	Palette RGB
	1
	Brightness
	Opacity

Image: Construction of the second second

On drag of a color s knob glows to indica pop-up indicates the selected value. The color is always disp both in the upper sy control button in-do

Much like Apple's iPhoto on the iPad, the sliders have no track, but rather, the entire gradient swatch serves as the touch area, with a trailing line behind the slider knob indicating the axis of motion.

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HSB

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