

THE BITCOIN CORPORATION

Bitcoin OS Color Scheme & Design System

Comprehensive Visual Identity Framework

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1. Overview

This document defines the comprehensive color scheme and design system for all Bitcoin OS applications. Each app has a unique primary color that maintains visual consistency while providing distinct app identity. Currently defining colors for 25+ applications in the Bitcoin OS ecosystem.

2. Design Principles

Core Design Philosophy

- Single primary color:** Each app uses one distinctive primary color
- Unique identity:** No two apps share the same primary color
- Accessible contrasts:** All colors meet WCAG accessibility standards against standard backgrounds
- Consistent theming:** Colors work with light/dark themes and gradients
- Scalable system:** Designed to accommodate 50+ apps with distinct colors

3. Primary Color Assignments

Application	Primary Color	Secondary Color	Hex Codes	Usage Theme
bitcoin-writer	 Orange	 Gold	#fffa500 / #fffcba00	Text editing, Specification professional

Application	Primary Color	Secondary Color	Hex Codes	Usage Theme
bitcoin-email	 Red	 Dark Red	#ff4444 / #cc0000	Communication, urgent
bitcoin-music	 Purple	 Violet	#8b5cf6 / #a855f7	Creative, audio
bitcoin-video	 Red	 Orange	#dc2626 / #fb923c	Media, entertainment
bitcoin-photos	 Pink	 Deep Pink	#ec4899 / #be185d	Visual, photography
bitcoin-art	 Purple	 Light Purple	#8b5cf6 / #a78bfa	Creative, artistic
bitcoin-3d	 Bright Green	 Light Green	#00ff88 / #e8ffe8	3D modeling, spatial
bitcoin-gaming	 Dark Orange	 Yellow	#ea580c / #fffff00	Gaming, energy
bitcoin-calendar	 Navy	 Sky Blue	#1e3a8a / #87ceeb	Scheduling, time
bitcoin-chat	 Light Blue	 Dark Blue	#64c8ff / #16213e	Communication, social
bitcoin-social	 Pink	 Rose	#ec4899 / #ff69b4	Social media, connection
bitcoin-drive	 Bright Green	 Light Green	#00ff88 / #e8ffe8	Storage, cloud
bitcoin-code	 Dark Gray	 Neon Green	#1e293b / #39ff14	Development, terminal
bitcoin-browser	 Chrome Blue	 Silver	#4285f4 / #c0c0c0	Web browsing
bitcoin-search	 Deep Teal	 Aqua	#0d9488 / #00ffff	Search, discovery
bitcoin-wallet	The Bitcoin Corporation LTD Bitcoin Gold	Light Gold v1.0	#ffd700 / #ffed4e	Finance, value

Application	Primary Color	Secondary Color	Hex Codes	Usage Theme
bitcoin-exchange	 Emerald	 Light Green	#10b981 / #6ee7b7	Trading, commerce
bitcoin-spreadsheet	 Blue	 Light Blue	#3b82f6 / #93c5fd	Data, analytics
bitcoin-books	 Black	 White	#000000 / #ffffff	Knowledge, reading
bitcoin-domains	 Purple	 Blue	#8B5CF6 / #3B82F6	Web, domains
bitcoin-maps	 Blue	 Light Blue	#0066CC / #3399FF	Location, navigation
bitcoin-jobs	 Turquoise	 Pale Turquoise	#40e0d0 / #afeeee	Career, employment
bitcoin-paint	 Violet	 Light Violet	#a855f7 / #e9d5ff	Art, creativity
bapps-store	 Coral	 Light Coral	#ff6b35 / #ffab91	Marketplace, apps

4. Gradient Examples

Visual examples of how the duo-tone colors work together in gradients:

Application	Linear Gradient Example	Radial Gradient Example	CSS Code
bitcoin-writer			linear-gradient(135deg, #ffa500, #ffcd00)
bitcoin-music			linear-gradient(135deg, #8b5cf6, #a855f7)
bitcoin-wallet			linear-gradient(135deg, #ffd700, #ffed4e)
bitcoin-exchange		 v1.0	linear-gradient(135deg, #10b981, #6ee7b7)

5. Component Standards

5.1 PoC Bar Specification

```
interface PocBarProps { appName: string; primaryColor: string; secondaryColor: string; isDismissible?: boolean; showBitcoinLogo?: boolean; } // Standard height: 40px // Background: Linear gradient from primary to secondary // Text: Black or white based on contrast // Position: Fixed top, full width, z-index: 9999
```

5.2 Taskbar Specification

```
interface TaskbarProps { appName: string; primaryColor: string; secondaryColor: string; menuItems: MenuItem[]; isAuthenticated: boolean; currentUser?: User; } // Standard height: 32px (below PoC bar) // Background: Translucent with app colors // Consistent menu structure across all apps
```

5.3 Dock Integration

```
// Update dock colors to use app-specific duo-tones const dockApps: DockApp[] = [ { name: 'bitcoin-writer', colors: ['#ffa500', '#ffcd00'], gradient: 'linear-gradient(45deg, #ffa500 0%, #ffcd00 100%)' }, { name: 'bitcoin-music', colors: ['#8b5cf6', '#a855f7'], gradient: 'linear-gradient(45deg, #8b5cf6 0%, #a855f7 100%)' }, // ... other apps ];
```

6. Design Tokens

6.1 Color Gradients

Each app uses its duo-tone colors in these gradient patterns:

Gradient Patterns

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- **Primary Gradient:** linear-gradient(135deg, {primary} 0%, {secondary} 100%)

- **Subtle Gradient:** linear-gradient(135deg, {primary} 0%, {primary}cc 50%, {secondary}99 100%)
- **Accent Gradient:** radial-gradient(circle, {secondary} 0%, {primary} 100%)

6.2 Transparency Levels

Alpha Opacity Standards

- **Background overlays:** 0.1 - 0.3 alpha
- **Glass effects:** 0.7 - 0.9 alpha with backdrop-blur
- **Hover states:** 0.8 alpha
- **Active states:** 1.0 alpha

6.3 Typography Colors

Text Color Hierarchy

- **Primary text:** App primary color at full opacity
- **Secondary text:** App secondary color at 0.8 opacity
- **Accent text:** Gradient between both colors
- **Muted text:** Primary color at 0.6 opacity

7. Implementation Guidelines

7.1 CSS Custom Properties

Each app should define these CSS variables:

```
:root { --app-primary: #1140ff; /*App's primary color*/ --app-secondary: #06d6ff; /*App's secondary color */ --app-gradient: linear-gradient(135deg, var(--app-
```

```
primary) 0%, var(--app-secondary) 100%); --app-shadow: 0 4px 12px rgba(var(--app-primary-rgb), 0.3); }
```

7.2 Component Classes

Standard classes for consistent styling:

```
.app-primary { color: var(--app-primary); } .app-secondary { color: var(--app-secondary); } .app-bg-gradient { background: var(--app-gradient); } .app-border { border-color: var(--app-primary); } .app-shadow { box-shadow: var(--app-shadow); }
```

8. Accessibility

8.1 Contrast Ratios

WCAG Compliance Standards

- All text must meet WCAG AA standards (4.5:1 minimum)
- Primary colors tested against white and black backgrounds
- Secondary colors provide sufficient contrast for UI elements

8.2 Color Blindness Support

Accessibility Features

- Each duo-tone pair distinguishable for all types of color blindness
- Semantic meaning never conveyed by color alone
- Alternative indicators (icons, text, patterns) always provided

9. File Structure

```
/apps/{app-name}/ | └─ styles/ |   └─ colors.css # App-specific color definitions |  
    └─ components.css # Component styles using color tokens |   └─ theme.css # Theme  
      configuration └─ components/ |   └─ PocBar.tsx # Standardized PoC bar |   └─  
      Taskbar.tsx # Standardized taskbar |   └─ AppLayout.tsx # Layout with color system  
      └─ types/ └─ theme.ts # TypeScript color definitions
```

10. Future Expansion

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10.1 New App Color Assignment

When adding new apps:

Color Assignment Process

1. Check existing combinations to avoid duplicates
2. Test accessibility with WebAIM contrast checker
3. Ensure colors match app purpose/theme
4. Update this document and dock configuration
5. Generate CSS custom properties

10.2 Color Harmony Rules

Design Harmony Guidelines

- Adjacent colors on color wheel for subtle combinations
- Complementary colors for high contrast needs
- Triadic relationships avoided to maintain duo-tone approach
- Saturation levels consistent within app families

System Benefits

This color scheme ensures visual consistency across the Bitcoin OS ecosystem while maintaining unique app identities and accessibility standards. The standardized approach enables rapid development while ensuring professional visual cohesion.