

AiiA UI Color Reference

This document provides a comprehensive overview of all colors used in the AiiA application, including their definitions, usage, and locations.

Color System Overview

The AiiA application uses a combination of:

1. **CSS Custom Properties (CSS Variables)** - Defined in `app/globals.css`
2. **Tailwind CSS Configuration** - Extended in `tailwind.config.ts`
3. **Direct Hex Values** - Used in specific components
4. **Tailwind Utility Classes** - Standard and custom color classes

CSS Variables (Primary Color System)

All primary colors are defined as HSL values in `app/globals.css` at `:root`:

Variable	HSL Value	Usage	Description
--background	222 47% 11%	Main app background	Dark blue-gray background
--foreground	210 40% 96%	Primary text color	Light gray text
--card	222 47% 14%	Card backgrounds	Slightly lighter than main background
--card-foreground	210 40% 96%	Card text color	Same as foreground
--popover	222 47% 14%	Popover backgrounds	Same as card
--popover-foreground	210 40% 96%	Popover text	Same as foreground
--primary	190 95% 55%	Primary brand color	Bright cyan/turquoise
--primary-foreground	222 47% 11%	Text on primary	Dark background color
--secondary	222 47% 16%	Secondary elements	Slightly lighter gray
--secondary-foreground	210 40% 96%	Secondary text	Light gray
--muted	222 47% 16%	Muted backgrounds	Same as secondary
--muted-foreground	215 20% 65%	Muted text	Medium gray
--accent	190 95% 55%	Accent color	Same as primary
--accent-foreground	222 47% 11%	Accent text	Dark background
--destructive	0 80% 65%	Error/danger color	Red
--destructive-foreground	210 40% 96%	Error text	Light gray
--border	222 47% 16%	Border color	Same as secondary
--input	222 47% 16%	Input backgrounds	Same as secondary
--ring	190 95% 55%	Focus rings	Same as primary
--success	140 60% 55%	Success color	Green
--warning	45 100% 70%	Warning color	Yellow

Tailwind Configuration

The Tailwind config (`tailwind.config.ts`) extends the default theme with custom colors that reference the CSS variables:

```
colors: {
  background: 'hsl(var(--background))',
  foreground: 'hsl(var(--foreground))',
  card: {
    DEFAULT: 'hsl(var(--card))',
    foreground: 'hsl(var(--card-foreground))',
  },
  // ... (all other variables mapped similarly)
  chart: {
    '1': 'hsl(var(--chart-1))',
    '2': 'hsl(var(--chart-2))',
    '3': 'hsl(var(--chart-3))',
    '4': 'hsl(var(--chart-4))',
    '5': 'hsl(var(--chart-5))',
  },
},
```

Direct Hex Color Values

These hex colors are used directly in component styling:

Hex Color	RGB Equivalent	Usage	Location
#0B1426	rgb(11, 20, 38)	Modal backgrounds	trade-confirmation-modal.tsx , trade-entry-modal.tsx
#1E293B	rgb(30, 41, 59)	Card backgrounds, hover states	trade-confirmation-modal.tsx , trade-entry-modal.tsx
#334155	rgb(51, 65, 85)	Borders, separators	trade-confirmation-modal.tsx , trade-entry-modal.tsx

Special Color Effects

Gradients

1. **Text Gradient** (defined in `globals.css`):

```
css
.text-gradient {
  background: linear-gradient(135deg, hsl(var(--primary)), hsl(var(--accent)));
  -webkit-background-clip: text;
  -webkit-text-fill-color: transparent;
}
```

2. **Glass Effect** (defined in `globals.css`):

```
css
.glass-effect {
  backdrop-filter: blur(16px);
  background: rgba(255, 255, 255, 0.1);
}
```

3. **Account Tier Gradients** (in `account-tier-badge.tsx`):

- Admin: `bg-gradient-to-r from-purple-500 to-pink-500`
- Pro: `bg-gradient-to-r from-blue-500 to-cyan-500`

Most Frequently Used Color Classes

Based on usage analysis, the most common color classes are:

Class	Usage Count	Purpose
<code>text-white</code>	23+	White text on dark back-grounds
<code>text-muted-foreground</code>	22+	Secondary/muted text
<code>text-gray-300</code>	22+	Light gray text
<code>text-gray-400</code>	13+	Medium gray text
<code>text-primary</code>	8+	Primary brand color text
<code>bg-muted</code>	8+	Muted background areas
<code>text-accent-foreground</code>	7+	Text on accent backgrounds
<code>bg-accent</code>	7+	Accent background areas

Color Usage by Component Type

Backgrounds

- **Main App:** `bg-background` (CSS variable)
- **Cards:** `bg-card` , `bg-[#1E293B]` (direct hex)
- **Modals:** `bg-[#0B1426]` (direct hex)
- **Inputs:** `bg-input` (CSS variable)

Text Colors

- **Primary Text:** `text-foreground` , `text-white`
- **Secondary Text:** `text-muted-foreground` , `text-gray-300` , `text-gray-400`
- **Brand Text:** `text-primary`
- **Success/Error:** `success-color` , `error-color` (custom classes)

Borders

- **Standard Borders:** `border-border` (CSS variable)
- **Card Borders:** `border-[#334155]` (direct hex)
- **Input Borders:** `border-input` (CSS variable)

Interactive Elements

- **Buttons:** Use primary, secondary, and destructive color schemes
- **Hover States:** Often use `hover:bg-[#1E293B]` or `hover:bg-accent`
- **Focus States:** Use `ring` color for focus indicators

File Locations Summary

Primary Color Definitions

- **CSS Variables:** `app/globals.css` (lines 7-26)
- **Tailwind Config:** `tailwind.config.ts` (lines 23-61)

Component-Specific Colors

- **Trade Modals:** `components/trade-confirmation-modal.tsx` , `components/trade-entry-modal.tsx`
- **Account Badges:** `components/account-tier-badge.tsx`
- **Charts:** `components/price-chart.tsx` (uses success/destructive variables)

Utility Classes

- **Custom Classes:** `app/globals.css` (lines 60-104)
- **Animation Classes:** `app/globals.css` (lines 44-49)

Theme System

The application uses `next-themes` for theme management, with the theme provider configured in `components/theme-provider.tsx`. The current implementation appears to use a single dark theme, but the infrastructure supports multiple themes.

Recommendations

1. **Consistency:** Most colors follow the CSS variable system, but some components use direct hex values. Consider migrating all colors to use CSS variables for better maintainability.
2. **Documentation:** The three direct hex colors (`#0B1426` , `#1E293B` , `#334155`) could be added as CSS variables for better semantic naming.
3. **Chart Colors:** The chart color variables (`--chart-1` through `--chart-5`) are defined in Tailwind config but their actual HSL values are not set in the CSS variables.
4. **Color Accessibility:** Ensure all color combinations meet WCAG accessibility guidelines for contrast ratios.