

Heaven UI Design System

Overview

Heaven UI is a minimalist, keyboard-first interface for Solo Git, inspired by modern development tools with a focus on clarity, efficiency, and aesthetic beauty.

Design Philosophy

“Simplicity is the ultimate sophistication.” - Leonardo da Vinci

- **Minimalism:** Clean, uncluttered interface with purposeful use of space
- **Dark Theme:** Deep space aesthetic that reduces eye strain during long coding sessions
- **Keyboard-First:** Every action accessible via keyboard shortcuts
- **Voice-Enabled:** Natural language input for AI-assisted workflows
- **Responsive:** Adapts seamlessly to different screen sizes and contexts
- **Accessible:** WCAG AA compliant with comprehensive keyboard and screen reader support

Color Palette

Background Colors

```
--heaven-bg-primary: #0A0E1A      /* Deep space black */
--heaven-bg-secondary: #0D1117    /* Slightly lighter for panels */
--heaven-bg-tertiary: #1A1F2E     /* Elevated surfaces, modals */
--heaven-bg-hover: #252A3A        /* Interactive element hover state */
--heaven-bg-active: #2D3348       /* Active/pressed state */
```

Accent Colors

```
--heaven-blue-primary: #3B82F6    /* Primary actions, links */
--heaven-blue-hover: #2563EB      /* Hover state for blue elements */
--heaven-green: #22C55E           /* Success states, passing tests */
--heaven-orange: #F97316          /* Warnings, in-progress states */
--heaven-red: #EF4444             /* Errors, failing tests */
--heaven-cyan: #06B6D4            /* Information, neutral highlights */
--heaven-purple: #A855F7          /* AI suggestions, special features */
--heaven-pink: #EC4899            /* Accent highlights */
```

Text Colors

```
--heaven-text-primary: #FFFFFF     /* Main content, headings */
--heaven-text-secondary: #9CA3AF   /* Supporting text, labels */
--heaven-text-tertiary: #6B7280    /* Muted text, metadata */
--heaven-text-disabled: #4B5563    /* Disabled states */
```

Syntax Highlighting Colors

```
--syntax-keyword: #C792EA      /* Keywords (const, let, function) */
--syntax-function: #82AAFF    /* Function names */
--syntax-string: #C3E88D     /* Strings */
--syntax-number: #F78C6C     /* Numbers */
--syntax-comment: #546E7A    /* Comments */
--syntax-variable: #EEFFFF    /* Variables */
--syntax-tag: #F07178        /* HTML/JSX tags */
--syntax-attribute: #C792EA  /* Attributes */
```

Typography

Font Families

```
--font-sans: -apple-system, BlinkMacSystemFont, "Segoe UI", Roboto, Oxygen, Ubuntu,
sans-serif;
--font-mono: "Fira Code", "JetBrains Mono", Monaco, Consolas, "Courier New",
monospace;
```

Font Sizes

Name	Size	Usage
xs	0.75rem (12px)	Small labels, metadata, status bar
sm	0.875rem (14px)	Body text, secondary content
base	1rem (16px)	Primary body text, buttons
lg	1.125rem (18px)	Subheadings
xl	1.25rem (20px)	Section headings
2xl	1.5rem (24px)	Page titles
3xl	1.875rem (30px)	Hero text, branding

Font Weights

- **Normal:** 400 (body text)
- **Medium:** 500 (emphasized text)
- **Semibold:** 600 (subheadings)
- **Bold:** 700 (headings, important elements)

Line Heights

- **Tight:** 1.25 (headings)
- **Normal:** 1.5 (body text)
- **Relaxed:** 1.6 (code editor)
- **Loose:** 1.75 (reading content)

Spacing System

Based on 4px grid for consistent rhythm:

Name	Value	Usage
0	0	Reset
1	4px	Tight spacing
2	8px	Small gaps
3	12px	Compact padding
4	16px	Default spacing
5	20px	Comfortable padding
6	24px	Section spacing
8	32px	Large spacing
10	40px	Extra large spacing
12	48px	Section separation
16	64px	Major layout spacing

Component Specifications

Header

- **Height:** 60px
- **Background:** `heaven-bg-secondary`
- **Border:** 1px solid `rgba(255, 255, 255, 0.05)` bottom
- **Branding:** "HEAVEN" - 24px, semibold
- **Subtitle:** "Zen mode · Solo Git" - 14px, secondary color

Command Palette

- **Position:** Fixed, center overlay
- **Width:** 600px max (90% on mobile)
- **Background:** `heaven-bg-tertiary` with `backdrop-blur(12px)`
- **Border Radius:** 12px
- **Shadow:** 0 20px 25px `rgba(0, 0, 0, 0.5)`
- **Input Height:** 48px
- **Item Height:** 40px
- **Sections:**
 - AI Suggestions (purple icon)
 - Commands (grouped by category)

File Explorer

- **Width:** 240px (collapsed: 60px)
- **Background:** `heaven-bg-secondary`
- **Item Height:** 32px
- **Indent:** 16px per nesting level
- **Icons:** 16px, color-coded by file type
- JS/TS: Yellow (`#F0DB4F`)
- HTML: Orange (`#E34C26`)
- CSS: Blue (`#264DE4`)
- JSON: Green (`#5FB04C`)
- MD: Blue (`#0969DA`)

Code Editor

- **Background:** `heaven-bg-primary`
- **Font:** Monospace, 14px
- **Line Height:** 1.6
- **Gutter Width:** 48px
- **Tab Size:** 2 spaces
- **Syntax Theme:** Material Ocean (custom)
- **Features:** Line numbers, bracket matching, auto-indent

Commit Timeline (Right Sidebar)

- **Width:** 280px
- **Background:** `heaven-bg-secondary`
- **Node Size:** 12px circle
- **Line Width:** 2px
- **Line Color:** `rgba(255, 255, 255, 0.2)`
- **Commit Spacing:** 48px vertical
- **Status Colors:**
 - Green: Merged/successful
 - Orange: In progress
 - Red: Failed
 - Purple: AI-assisted

Status Bar

- **Height:** 32px
- **Background:** `heaven-bg-tertiary`
- **Font Size:** 12px
- **Layout:** 3 sections (left, center, right)
- **Sections:**
 - Left: Current status, active file
 - Center: Test results with pass/fail counts
 - Right: Build info, operations count

Voice Input

- **Height:** 48px

- **Border Radius:** 24px (pill shape)
- **Background:** `heaven-bg-tertiary`
- **Padding:** 12px 20px
- **Voice Button:** 32px circle, cyan color
- **Placeholder:** "Type or hold to speak"

Buttons

Primary Button:

- Background: `heaven-blue-primary`
- Height: 40px
- Padding: 8px 16px
- Border Radius: 6px
- Font: medium, 14px

Secondary Button:

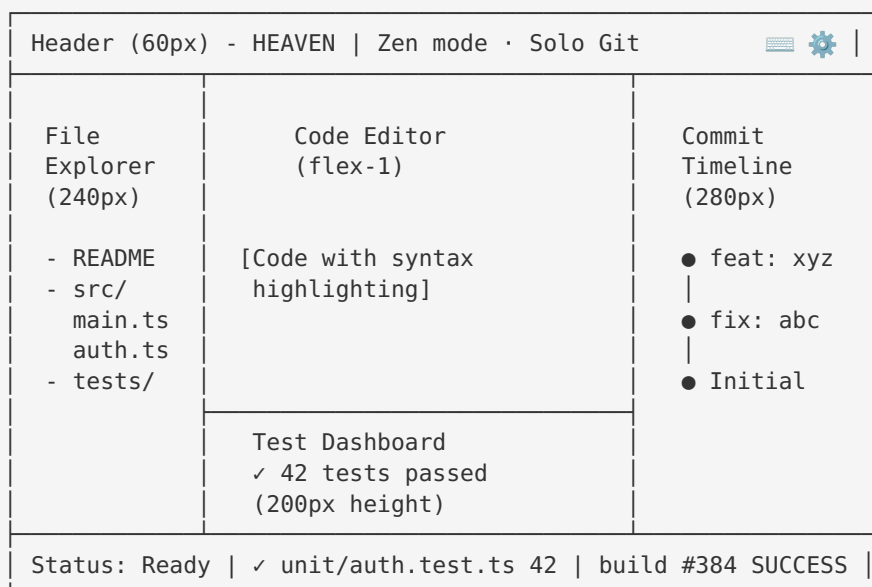
- Background: transparent
- Border: 1px solid `heaven-text-tertiary`
- Height: 40px
- Padding: 8px 16px
- Border Radius: 6px

Icon Button:

- Size: 32px square
- Background: transparent (hover: `heaven-bg-hover`)
- Border Radius: 6px

Layout Structure

Desktop Layout (> 1024px)



Tablet Layout (768px - 1024px)

- File Explorer: Collapsible overlay
- Code Editor: Full width

- Commit Timeline: Collapsible overlay

Mobile Layout (< 768px)

- Single column
- All sidebars as modal overlays
- Command Palette full width

Interactions & Animations

Hover States

Opacity: 0.8 for icons
Background: Lighter shade for surfaces
Transition: 150ms ease-in-out

Focus States

Outline: 2px solid heaven-blue-primary
Offset: 2px
Border Radius: Matches element
Shadow: 0 0 0 3px rgba(59, 130, 246, 0.1)

Active States

Scale: 0.98 for buttons
Background: Darker shade
Transform: translateY(1px)

Transition Timings

- **Fast:** 100ms - Immediate feedback (hover)
- **Default:** 150ms - Standard interactions
- **Slow:** 300ms - Layout changes, modals
- **Smooth:** 500ms - Page transitions

Loading States

Skeleton: Subtle pulse animation
Spinner: Circular, 2px stroke
Progress: Linear bar with gradient

Accessibility

ARIA Labels

- All interactive elements have descriptive `aria-label`
- Icon buttons include text alternatives
- Form inputs have associated `<label>` elements
- Dynamic content uses `aria-live` regions

Keyboard Navigation

Key	Action
Tab	Navigate forward
Shift+Tab	Navigate backward
Enter	Activate/Submit
Escape	Close modal/Cancel
↑ ↓	Navigate lists
←→	Navigate timeline
Cmd/Ctrl+P	Command Palette
Cmd/Ctrl+B	Toggle File Explorer
Cmd/Ctrl+/ 	Toggle AI Assistant
?	Show keyboard shortcuts

Focus Management

- Visible focus indicators (never `outline: none`)
- Focus trap in modals
- Focus restoration on modal close
- Skip links for main content

Color Contrast

- All text meets WCAG AA: 4.5:1 (normal), 3:1 (large)
- Interactive elements: 3:1 contrast
- Status indicators use color + icon/text

Screen Reader Support

- Semantic HTML (`<nav>` , `<main>` , `<aside>`)
- Landmark regions
- Button vs link distinction
- Form validation messages

Animation Principles

Micro-interactions

- **Button Press:** Scale 0.98, shadow reduce
- **Hover:** Subtle color/opacity change
- **Loading:** Gentle pulse or rotate

Modal Animations

```
Enter: opacity 0 → 1, scale 0.95 → 1 (200ms)
Exit: opacity 1 → 0, scale 1 → 0.95 (150ms)
Backdrop: opacity 0 → 0.5 (200ms)
```

Page Transitions

- Fade: 200ms
- Slide: 300ms with easing
- Scale: 250ms for emphasis

Performance

- Use CSS `transform` and `opacity`
- Avoid animating `width`, `height`, `top`, `left`
- Respect `prefers-reduced-motion`
- Use `will-change` sparingly

Icons

Style Guidelines

- **Type:** Outline style, consistent stroke
- **Size:** 16px (inline), 20px (buttons), 24px (featured)
- **Stroke Width:** 2px
- **Color:** Inherits from parent text color
- **Library:** Lucide React or Heroicons

Icon Usage

```
// Example
import { FileText, Folder, GitBranch } from 'lucide-react'

<FileText size={16} className="text-heaven-text-secondary" />
```

Shadows

```
--shadow-sm: 0 1px 2px rgba(0, 0, 0, 0.3);
--shadow-md: 0 4px 6px rgba(0, 0, 0, 0.3);
--shadow-lg: 0 10px 15px rgba(0, 0, 0, 0.4);
--shadow-xl: 0 20px 25px rgba(0, 0, 0, 0.5);
--shadow-2xl: 0 25px 50px rgba(0, 0, 0, 0.6);
```


Border Radius

```
--rounded-sm: 4px      /* Small elements */
--rounded: 6px         /* Default buttons, inputs */
--rounded-md: 8px      /* Cards, panels */
--rounded-lg: 12px     /* Modals, large surfaces */
--rounded-xl: 16px     /* Hero elements */
--rounded-full: 9999px /* Pills, avatars */
```

Z-Index Scale

```
--z-base: 0
--z-dropdown: 10
--z-sticky: 20
--z-fixed: 30
--z-modal-backdrop: 40
--z-modal: 50
--z-popover: 60
--z-tooltip: 70
--z-notification: 80
```

Component States

Input States

State	Border	Background	Text
Default	rgba(255,255,255,0.1)	tertiary	primary
Focus	blue primary	tertiary	primary
Error	red	tertiary	primary
Success	green	tertiary	primary
Disabled	rgba(255,255,255,0.05)	secondary	disabled

Button States

State	Opacity	Scale	Shadow
Default	1.0	1.0	sm
Hover	0.9	1.0	md
Active	1.0	0.98	none
Disabled	0.5	1.0	none
Loading	0.7	1.0	sm

Best Practices

Do's ✓

- Use consistent spacing from the spacing system
- Maintain WCAG AA color contrast
- Provide keyboard shortcuts for common actions
- Use semantic HTML elements
- Include ARIA labels for assistive technologies
- Test with keyboard navigation
- Respect `prefers-reduced-motion`
- Keep animations subtle and purposeful
- Use loading states for async operations
- Provide clear error messages

Don'ts ✗

- Don't use arbitrary spacing values
- Don't rely solely on color to convey information
- Don't create keyboard traps
- Don't use `<div>` for interactive elements
- Don't remove focus indicators
- Don't animate layout properties (width, height)
- Don't ignore accessibility guidelines
- Don't use tiny click targets (< 44x44px)
- Don't make animations too fast or slow
- Don't hide important information in tooltips

Implementation Guidelines

File Organization

```
src/
├── components/
│   ├── web/                # Platform-agnostic React components
│   │   ├── CommandPalette/
│   │   ├── FileExplorer/
│   │   ├── CodeEditor/
│   │   ├── CommitTimeline/
│   │   └── ...
│   ├── desktop/           # Tauri-specific components
│   │   ├── NativeMenuBar/
│   │   ├── FileSystemBridge/
│   │   └── ...
│   └── shared/             # Common utilities
│       ├── types/
│       ├── hooks/
│       └── utils/
├── ui/                     # Base UI components (Button, Input, etc.)
├── styles/
├── globals.css             # Tailwind + custom CSS variables
└── App.tsx                 # Main application
```

Component Naming

- Use PascalCase: `CommandPalette.tsx`
- Index files for complex components: `CommandPalette/index.tsx`
- Co-locate styles if needed: `CommandPalette/styles.css`
- Tests alongside: `CommandPalette/CommandPalette.test.tsx`

Props Interface Pattern

```
export interface CommandPaletteProps {
  isOpen: boolean
  onClose: () => void
  commands: Command[]
  className?: string
  'aria-label'? : string
}
```

Tailwind Usage

```
// Prefer Tailwind classes
<div className="bg-heaven-bg-tertiary rounded-lg p-4 shadow-lg">

// Avoid inline styles (except dynamic values)
<div style={{ width: `${progress}%` }}>
```

Testing Checklist

Visual Testing

- [] Renders correctly in all layout sizes

- ☐ Text is readable with proper contrast
- ☐ Icons are properly sized and aligned
- ☐ Spacing is consistent
- ☐ Animations are smooth

Functional Testing

- ☐ All interactions work as expected
- ☐ Keyboard navigation works
- ☐ Focus management is correct
- ☐ Loading states display properly
- ☐ Error states are clear

Accessibility Testing

- ☐ Screen reader announces correctly
- ☐ All interactive elements are keyboard accessible
- ☐ Focus indicators are visible
- ☐ Color contrast meets WCAG AA
- ☐ Form validation is clear

Performance Testing

- ☐ Initial render is fast
- ☐ Animations don't cause jank
- ☐ Large lists are virtualized
- ☐ Images are optimized
- ☐ Bundle size is reasonable

Version: 1.0.0

Last Updated: October 2025

Maintained by: Solo Git Team

Design Philosophy: "Simplicity is the ultimate sophistication"