Migration Guide to webOS Design System v1.0

Quick reference for migrating from old design tokens to the new consolidated webOS Design System.

Overview

The new webOS Design System consolidates all design tokens into a single source of truth: `/styles/webos-design-system.css` . This replaces the following legacy files:

- ❌ `styles/webos-design-tokens.css` → ✅ `styles/webos-design-system.css`
- ❌ `styles/webos-theme.css` → ✅ `styles/webos-design-system.css`
- ❌ `styles/loomos-tokens.css` → ✅ `styles/webos-design-system.css`
- ❌ `styles/loomos-design-system.css` → ✅ `styles/webos-design-system.css`
- ❌ `design-tokens/core.css` → ✅ `styles/webos-design-system.css`
- ❌ `design-tokens/semantic.css` → ✅ `styles/webos-design-system.css`
- ❌ `design-tokens/motion.css` → ✅ `styles/webos-design-system.css`

Quick Migration Checklist

- [ ] 1. Update `app/globals.css` imports (already done!)
- [ ] 2. Find and replace color tokens
- [ ] 3. Update spacing references
- [ ] 4. Update typography classes
- [ ] 5. Test in light and dark mode
- [ ] 6. Remove unused legacy CSS files (optional)

Token Migration Map

Colors

Background Colors

Old Token	New Token	Usage
`--loomos-bg-primary`	`--bg-primary`	Main app background
`--loomos-bg-secondary`	`--bg-secondary`	Secondary areas
`--loomos-bg-tertiary`	`--bg-tertiary`	Tertiary areas
`--loomos-surface`	`--bg-surface`	Cards, panels
`--webos-bg-primary`	`--bg-primary`	Main background
`--webos-surface`	`--bg-surface`	Cards
`--semantic-bg-base`	`--bg-primary`	Main background
`--semantic-surface-base`	`--bg-surface`	Surface

Text Colors

Old Token	New Token	Usage
`--loomos-text-primary`	`--text-primary`	Primary text
`--loomos-text-secondary`	`--text-secondary`	Secondary text
`--webos-text-primary`	`--text-primary`	Primary text
`--semantic-text-primary`	`--text-primary`	Primary text

Border Colors

Old Token	New Token	Usage
`--loomos-border-light`	`--border-light`	Default borders
`--loomos-border-medium`	`--border-medium`	Emphasized borders
`--webos-border-light`	`--border-light`	Light borders

Accent Colors

Old Token	New Token	Usage
`--loomos-accent`	`--accent-blue`	Primary accent
`--loomos-orange`	`--accent-blue`	Links, actions
`--webos-accent-blue`	`--accent-blue`	Blue accent

Tailwind Class Replacements

Background Classes

```
// OLD → NEW
bg-loomos-grey            → bg-primary or bg-neutral-300
bg-loomos-surface         → bg-surface
bg-webos-gray-100         → bg-neutral-100
bg-semantic-bg-base       → bg-primary

// Tailwind defaults
bg-gray-100               → bg-neutral-100
bg-gray-200               → bg-neutral-200
bg-white                  → bg-surface (for cards)
```

Text Classes

```
// OLD → NEW
text-loomos-text          → text-primary
text-webos-text-primary   → text-primary
text-semantic-text        → text-primary

// Tailwind defaults
text-gray-900             → text-primary
text-gray-600             → text-secondary
text-gray-400             → text-tertiary
text-black                → text-primary
```

Border Classes

```
// OLD → NEW
border-loomos-border      → border-light
border-webos-border       → border-light

// Tailwind defaults
border-gray-200           → border-light
border-gray-300           → border-medium
```

Spacing

Old	New
`p-loomos-md`	`p-md` or `p-3`
`gap-loomos-lg`	`gap-lg` or `gap-6`
`mt-loomos-xl`	`mt-xl` or `mt-8`
`p-[16px]`	`p-4` or `p-base`
`gap-[24px]`	`gap-lg` or `gap-6`

Typography

Old	New
`text-loomos-base`	`text-base`
`text-loomos-lg`	`text-lg`
`font-loomos`	`font-sans`
`font-webos`	`font-sans`

Component Migration Examples

Before (Old Tokens)

```
// Old Button
<button className="bg-loomos-orange text-white px-6 py-3
                   rounded-lg hover:bg-loomos-orange-dark">
  Click Me
</button>

// Old Card
<div className="bg-loomos-surface p-loomos-lg rounded-xl
                shadow-loomos-card border border-loomos-border">
  <h3 className="text-loomos-text-primary font-loomos">Card Title</h3>
</div>

// Old Input
<input className="bg-semantic-surface border-semantic-border
                  text-semantic-text-primary" />
```

After (New Tokens)

```
// New Button
<button className="bg-accent-blue text-white px-6 py-3
                    rounded-md hover:bg-accent-blue-dark transition-fast">
  Click Me
</button>

// New Card
<div className="bg-surface p-4 rounded-lg shadow-card
                border border-lightest">
  <h3 className="text-primary font-sans">Card Title</h3>
</div>

// New Input
<input className="bg-surface border-light text-primary" />
```

CSS Variable Migration

Find and Replace in CSS Files

```
/* OLD → NEW */

/* Backgrounds */
var(--loomos-bg-primary)        ⊡ var(--bg-primary)
var(--webos-bg-primary)         ⊡ var(--bg-primary)
var(--semantic-bg-base)         ⊡ var(--bg-primary)

/* Text */
var(--loomos-text-primary)      ⊡ var(--text-primary)
var(--webos-text-primary)       ⊡ var(--text-primary)

/* Borders */
var(--loomos-border-light)      ⊡ var(--border-light)
var(--webos-border-light)       ⊡ var(--border-light)

/* Spacing */
var(--loomos-spacing-md)        ⊡ var(--space-md)
var(--space-3)                  ⊡ var(--space-md)

/* Typography */
var(--loomos-text-base)         ⊡ var(--text-base)
var(--loomos-font-family)       ⊡ var(--font-sans)

/* Shadows */
var(--loomos-shadow-card)       ⊡ var(--shadow-card)
var(--webos-shadow-card)        ⊡ var(--shadow-card)
```

VSCode Find & Replace

Use these regex patterns for bulk migration:

Pattern 1: Background Classes

```
Find:    bg-(loomos-|webos-|semantic-)?(grey|gray)-?(\d{1,3})?
Replace: bg-neutral-$3 (manual verification needed)
```

Pattern 2: Text Classes

```
Find:    text-(loomos-|webos-|semantic-)?text-?(primary|secondary|tertiary)?
Replace: text-$2
```

Pattern 3: CSS Variables

```
Find:    var\(--(loomos-|webos-|semantic-)(.*?)\)
Replace: var(--$2)
```

⚠️ **Warning**: Always review changes before committing. These patterns may need manual adjustments.

Testing Checklist

After migration, test these scenarios:

Visual Testing

- [ ] Light mode renders correctly
- [ ] Dark mode renders correctly
- [ ] All colors match the design reference
- [ ] No blue-tinted grays (should be pure neutrals)
- [ ] Cards have subtle shadows
- [ ] Text is readable (high contrast)
- [ ] Borders are visible but subtle

Component Testing

- [ ] Buttons have correct hover states
- [ ] Inputs focus correctly (blue border)
- [ ] Cards hover correctly
- [ ] Modals have backdrop blur
- [ ] Dock has glassmorphic effect
- [ ] Navigation is accessible

Responsive Testing

- [ ] Mobile layout works
- [ ] Tablet layout works
- [ ] Desktop layout works
- [ ] Touch targets are 44px minimum

Accessibility Testing

- [ ] Focus indicators are visible
- [ ] Color contrast meets WCAG 2.1 AA
- [ ] Keyboard navigation works
- [ ] Screen readers announce correctly

Common Issues & Solutions

Issue 1: Colors look different

Problem: Colors don't match the old design.

Solution: Ensure you're using the correct neutral scale. The new system uses pure neutrals (#e8e8e8) instead of blue-tinted grays.

```
// ❌ Wrong - blue tinted
bg-slate-100  // Has blue tint

// ✅ Correct - pure neutral
bg-neutral-100  // Pure gray
```

Issue 2: Spacing is off

Problem: Spacing doesn't match the old layout.

Solution: Use the semantic spacing aliases:

```
// ❌ Wrong
p-[16px]

// ✅ Correct
p-4  // or p-base
```

Issue 3: Dark mode broken

Problem: Colors don't invert in dark mode.

Solution: Use semantic tokens instead of hardcoded colors:

```
// ❌ Wrong
className="bg-white text-black"

// ✅ Correct
className="bg-surface text-primary"
```

Issue 4: Typography too bold

Problem: Text looks heavier than before.

Solution: Use light font weights:

```
// ❌ Wrong
className="font-bold"

// ✅ Correct
className="font-light"  // Default for most text
```

Issue 5: Missing tokens

Problem: Some old tokens don't have direct equivalents.

Solution: Check the full token list in `/styles/webos-design-system.css` or use semantic aliases:

```
// Old token not found
--loomos-orange

// Use semantic equivalent
--accent-blue  // Primary accent
```

Rollback Plan

If you encounter critical issues, you can temporarily roll back:

1. **Uncomment legacy imports** in `app/globals.css`:

```
/* Uncomment for backwards compatibility */
@import '../styles/webos-design-tokens.css';
@import '../design-tokens/semantic.css';
@import '../design-tokens/core.css';
```

1. **Test thoroughly** before removing legacy files.

2. **Migrate gradually** - one component/page at a time.

Benefits After Migration

✅ **Single Source of Truth**: All tokens in one file
✅ **Better Performance**: Fewer CSS imports
✅ **Consistent Naming**: Clear, predictable token names
✅ **Easier Theming**: Simple dark mode switching
✅ **Better DX**: Autocomplete in VS Code
✅ **Maintainable**: Easier to update design system
✅ **Palm webOS Authentic**: True to original design

Need Help?

- 📚 **Full Documentation**: See `/docs/DESIGN_SYSTEM.md`
- 🎨 **Token Reference**: See `/styles/webos-design-system.css`

- 🐛 **Found a bug?**: Open an issue in #design-system channel

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Migration Status: 🚀 Ready for Production
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