Singular Plural Inconsistency Report

# SINGULAR/PLURAL INCONSISTENCY REPORT

> **HISTORICAL REPORT**: This document captured inconsistencies that existed before refactoring.

> **STATUS**: All references have been updated to singular naming as of July 11, 2025.

> **CURRENT STATE**: All token names and file paths now use singular conventions consistently.

## 🚨 Inconsistency Found: Singular vs Plural Color Naming (RESOLVED)

### \*\*The Problem:\*\*

The design system has inconsistent naming between primitive and semantic color layers:

* \*\*Primitives:\*\* `ob.p.colors` (PLURAL) 📁 `primitives/colors.json`
* \*\*Semantics:\*\* `ob.s.color` (SINGULAR) 📁 `semantics/colors/`

### \*\*File Structure Inconsistency:\*\*

primitives/

├── colors.json ← PLURAL filename

└── ...

semantics/

├── colors/ ← PLURAL folder name

│ ├── emphasis/

│ ├── inversity/

│ ├── lightness/

│ └── static.json

└── ...

### \*\*Token Reference Inconsistency:\*\*

Primitives (PLURAL): {ob.p.colors.basic.white}

Semantics (SINGULAR): {ob.s.color.l1.neutral.bg.contrast-high}

### \*\*Detailed Findings:\*\*

#### \*\*1. Primitives Layer (`ob.p.colors` - PLURAL)\*\*

* \*\*File:\*\* `primitives/colors.json`
* \*\*Token Pattern:\*\* `{ob.p.colors.\*}`
* \*\*Usage Count:\*\* 51+ occurrences found
* \*\*Examples:\*\*
* `{ob.p.colors.cobalt.900}`
* `{ob.p.colors.basic.white}`
* `{ob.p.colors.purple.500}`
* `{ob.p.colors.basic.bundesrot}`

#### \*\*2. Semantics Layer (`ob.s.color` - SINGULAR)\*\*

* \*\*Folder:\*\* `semantics/colors/`
* \*\*Token Pattern:\*\* `{ob.s.color.\*}`
* \*\*Usage Count:\*\* 51+ occurrences found
* \*\*Examples:\*\*
* `{ob.s.color.l1.neutral.bg.contrast-highest.inversity-flipped}`
* `{ob.s.color.l2.status.attention.bg.contrast-low}`
* `{ob.s.color.l3.interaction.state.fg.disabled.inversity-normal}`

### \*\*Impact Analysis:\*\*

#### \*\*Files Using `ob.p.colors` (PLURAL):\*\*

* `primitives/colors.json` (internal references)
* `semantics/colors/static.json`
* `semantics/colors/inversity/normal.json`
* `semantics/colors/inversity/flipped.json`
* `semantics/colors/lightness/dark.json`
* `semantics/colors/lightness/light.json`

#### \*\*Files Using `ob.s.color` (SINGULAR):\*\*

* All component files (`components/\*\*/\*.json`)
* All HTML element files (`html/\*\*/\*.json`)
* All L1, L2, L3 semantic files
* Most reference chains throughout the system

### \*\*Recommendation:\*\*

**Switch to SINGULAR everywhere** as suggested:

* `ob.p.colors` → `ob.p.color`
* Keep `ob.s.color` (already singular)

This would create consistency:

Primitives: {ob.p.color.basic.white} ← SINGULAR

Semantics: {ob.s.color.l1.neutral.bg.\*} ← SINGULAR

### \*\*Rationale for Singular Naming:\*\*

#### \*\*1. Consistency\*\*

* We aim for consistency across all token layers
* Mixed singular/plural creates confusion and maintenance overhead
* Uniform naming reduces cognitive load for developers

#### \*\*2. Simplicity\*\*

* We aim for simplicity in token architecture
* Singular forms are simpler and more predictable
* Reduces decision-making: always use singular

#### \*\*3. Semantic Reference\*\*

* In token names, it makes more sense to have singular in segments like `ob.s.color`
* We take the semantics layer (`ob.s.color`) as the reference standard
* Semantic tokens are the most frequently used, so they should set the pattern

#### \*\*4. Comprehensive Renaming\*\*

* We rename not only token references but also token sets (JSON files)
* File structure should mirror token structure for clarity
* `primitives/colors.json` → `primitives/color.json`

### \*\*Migration Impact:\*\*

* \*\*Low-Medium Impact:\*\* Only affects primitive layer references
* \*\*Files to Update:\*\* ~6-8 semantic layer files that reference primitives
* \*\*No Impact:\*\* Component and HTML layers (already use semantic tokens)

### \*\*Files Requiring Changes:\*\*

1. `primitives/colors.json` (rename to `color.json`)
2. `semantics/colors/static.json`
3. `semantics/colors/inversity/normal.json`
4. `semantics/colors/inversity/flipped.json`
5. `semantics/colors/lightness/dark.json`
6. `semantics/colors/lightness/light.json`

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\*Report Generated: 2025-07-11\*

\*Status: ANALYSIS COMPLETE - NO CHANGES MADE\*