

/design-system

Source: `~/ .claude/skills/design-system/SKILL.md`

name: design-system description: "End-to-end design-to-build pipeline for NEW projects. Stitch generates designs ? Figma import ? extract tokens ? generate code ? validate. Use for new designs from scratch." argument-hint: "[project brief — app name, industry, brand colors, screens to design]"

Design-to-Build Pipeline

Create new designs from scratch and build them into production code. For working with EXISTING Figma files, use `/figma-design` instead.

Knowledge Base: `~/system/context/figma-knowledge-base.md` — READ THIS FIRST.

The Pipeline (7 Steps)

BRIEF → STITCH → FIGMA → EXTRACT → BUILD → VALIDATE → DEPLOY

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Spec

Generate

Import

Tokens

React

Compare

Ship

(FREE)

(manual)

(auto)

(auto)

(visual)

Step 1: BRIEF — Parse Requirements

Extract from request:

- **App name** and industry (fintech, SaaS, music, consulting)
- **Brand** — primary color, accent, background
- **Screens** to design (login, dashboard, send-money, etc.)
- **Elements** — what must be on screen
- **Audience** — who uses this
- **Vibe** — 3 keywords (e.g., "trustworthy, effortless, Scandinavian")

Step 2: STITCH — Generate Design (FREE)

```
node ~/system/tools/stitch-generate.js \  
  --brief "[APP]" --screen "[SCREEN]" --industry "[INDUSTRY]" \  
  --primary "[HEX]" --secondary "[HEX]" \  
  --vibe "[KW1], [KW2], [KW3]" \  
  --elements "[EL1],[EL2],[EL3]" \  
  --model pro --options 3
```

Output: 3 style variants in `~/system/design-output/stitch-<timestamp>/`

Present for approval:

```
node ~/system/tools/design-board.js create "[Project] [Screen]" "reviewer@email" \  
  --options '[...png paths...]' --recommend 2
```

WAIT for CEO/client approval before proceeding.

Step 3: FIGMA — Import Approved Design (Manual Step)

Method A: In Stitch, "Copy to Figma" → Cmd+V in Figma Desktop **Method B:** Download HTML/CSS from Stitch → use `html.to.design` plugin in Figma (80-90% accuracy) **Method C:** Use `figma-populate.js` WebSocket bridge (unreliable — last resort)

After import: **Figma IS the source of truth.** All subsequent work reads FROM Figma.

Step 4: EXTRACT — Tokens + Assets from Figma

```
# Design tokens → all formats
node ~/system/tools/figma-token-sync.js <file-key> --format all --output ./tokens/

# Individual assets (logos, icons)
node ~/system/tools/figma-extract.js export-image <file-key> <node-id> --format svg --output
./public/logo.svg

# Generate implementation prompt
node ~/system/tools/figma-extract.js frame-to-prompt <file-key> <node-id>
```

Step 5: BUILD — Code from Figma Data

Option A: Direct Figma → React (NEW)

```
node ~/system/tools/figma-to-react.js <file-key> <node-id> --output ./src/app/page.tsx
```

Option B: Stitch HTML → React (existing)

```
node ~/system/tools/design-to-code.js assemble \
  --stitch-code code.html --assets-dir exports/ --target-page page.tsx --preserve-logic
```

Rules:

1. Logo/icons → exported from Figma, NEVER hand-drawn SVG
2. Colors → extracted token values, not guessed hex codes
3. Typography → match extracted font/size/weight exactly
4. Spacing → match extracted spacing values
5. Layout → follow Auto Layout → Flexbox mapping

Step 6: VALIDATE — Compare Code to Design

```
node ~/system/tools/figma-validate.js compare <file-key> <node-id> http://localhost:3000/page
```

ZAKON #0.1: List DIFFERENCES, not similarities. If diff > 10%, fix before proceeding.

Step 7: DEPLOY

```
# Docker build for Fly.io
docker build -t app .
flyctl deploy

# Or Vercel
vercel --prod
```

Design System Architecture

Token Structure (3-Tier MANDATORY)

```
PRIMITIVE: blue-500, gray-900, spacing-16
  ↓
SEMANTIC: color-primary, text-primary, spacing-md
  ↓
COMPONENT: button-bg-primary, card-padding, input-border-focus
```

Typography Scale (Major Third 1.25)

Size	Use	Tailwind
12px	Caption	<code>text-xs</code>
14px	Small body	<code>text-sm</code>
16px	Body (BASE)	<code>text-base</code>
20px	Subtitle	<code>text-xl</code>
25px	H3	<code>text-2xl</code>
31px	H2	<code>text-3xl</code>
39px	H1	<code>text-4xl</code>

Spacing Grid (4px baseline + 8pt elements)

Value	Token	Tailwind	Use
4px	spacing-xs	<code>p-1</code>	Micro spacing

Value	Token	Tailwind	Use
8px	spacing-sm	p-2	Between label↔input
12px	spacing-md-sm	p-3	Compact padding
16px	spacing-md	p-4	Form fields
24px	spacing-lg	p-6	Card padding
32px	spacing-xl	p-8	Between sections
48px	spacing-2xl	p-12	Major breaks
64px	spacing-3xl	p-16	Hero spacing

Color System

Semantic tokens (minimum set):

- color-primary, color-secondary, color-accent
- color-success, color-warning, color-error, color-info
- text-primary, text-secondary, text-disabled
- surface-base, surface-raised, surface-overlay
- border-default, border-focus, border-error

WCAG: AA minimum (4.5:1 normal text, 3:1 large text)

Elevation (5 levels)

Level	Use	CSS
0	Flat	none
1	Cards	shadow-sm
2	Buttons	shadow-md
3	Dropdowns	shadow-lg
4	Modals	shadow-xl

Industry Patterns

Fintech

- Trust signals: green, navy, white
- BankID/Vipps prominence, security cues

- Biometric-first auth, generous whitespace
- Clear number formatting, transaction lists

SaaS

- Clean layouts, data visualization
- System fonts, minimal palette
- Dashboard patterns, data tables

Music/Creative

- Dark themes, neon accents
- Bold typography, gradient meshes
- Dynamic visuals, high contrast

Professional Services

- Minimal, structured layouts
- Restrained palette, strong hierarchy
- Corporate, competent, reliable

Quality Gate (MANDATORY before delivery)

- Design approved by CEO/client (Step 3 gate)
- Tokens extracted from Figma (NOT guessed)
- `figma-validate.js` run — diff < 10%
- DIFFERENCES listed explicitly
- All assets exported from Figma
- WCAG AA contrast verified
- Mobile touch targets \geq 44px

Reference

- **Knowledge base:** `~/system/context/figma-knowledge-base.md`
- **REST API:** `~/system/context/figma-rest-api-reference-2025-2026.md`
- **Config:** `~/system/config/figma.json`
- **Tools:** `~/system/tools/manifest.md`

Revision #5

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