



# **CRS Design Systems**

Sprint 3 Learnings





# Design Systems

### What is a design system?

A design system is a complete set of standards intended to manage design at scale using reusable components and patterns.

Design systems, when implemented well, can provide a lot of benefits to a design team:

- Design (and development) work can be created and replicated quickly and at scale.
- It alleviates strain on design resources to focus on larger, more complex problems.
- It creates a unified language within and between cross-functional teams.
- It creates visual consistency across products, channels, and (potentially siloed) departments.
- It can serve as an educational tool and reference for junior-level designers and content contributors.

### Pros and Cons of a Design System?

Pros	Cons
Replicate designs quickly and at scale	Time intensive, requires dedicated team
Designers focus less on visual appearance and more on complex issues	Takes time to teach to others: "Any design system, even if it were adapted from an existing one, needs instructions for use — otherwise there is a risk that it may be applied inconsistently or incorrectly across screens or across teams."
One language for cross functional teams	Unnecessary for one off creations (don't need reusable components)
Enables visual consistency	
Serves as reference for junior designers	

#### **Elements of a Design System**



### Examples

#### Material Design

#### <u>Apple Human</u> <u>Interface Guidelines</u>



#### USWDS (U.S. Web Design System)







# The CRS Design System

### The CRS Design System

- Congressional Research Service (CRS) is part of the Library of Congress (LOC)
- CRS is a service offered to congress members and their staff
- LOC is working on redesigning the CRS website
- UMD team will create a design system for CRS based on the USWDS guidelines and the CRS brand guide
- Deliverables:
  - Figma files
  - Design system documentation

### Style Guide: Design Principles

#### Usability

- Promote ease-of-use across platforms and devices
- Accessibility
  - Ensure that diverse needs are addressed.
- Readability
  - Present information that can be easily processed.
- Discoverability
  - Enable users to identify and utilize available functionalities
- Prestige/Excellence/High Quality
  - Convey top quality service

### Style Guide: Color Palette

#### **CRS** theme palette



#### State colors



### Style Guide: Typography

#### Font Size

- H1: size 14 | 42px
- H2: size 12 | 32px
- Body: size 5 | 16px
- Graphics: size 3 | 14px
- Font Styles
  - **EB Garamond** for h1, h2, and h3
  - Libre Baskerville for body text
  - **Public Sans** for h4, h5, h6 and data-driven information.
- Typescale for line height
- Whitespace

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### Components & Patterns

 Components: Buttons, Checkbox, Dropdown, Grid, Radio, Pagination, Search, Tags, Text Input

• Patterns: Carousel, Form, Header

Buttons		
Standard buttons	Text Input	
prisery Button Button Button	Text input label	
Button Button	Text input label *	
accent cost Button Button		Vour Information
Button Button	Text input label	Tour mormation
Button Button		Your Name *
errar Button Button	Text input label Helpful error message	
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## Processes & Learnings

### Learnings: Color Palette

- Started with **CRS's color palette** then used a tool provided on USWDS to **generate colors** that conform with their **standards**.
- Followed the color palette template provided by USWDS to pick variants and separate states.





Colors



State palette



### Learnings: Typography

- At first we picked a few fonts based on the CRS brand guidelines and what we liked.
- We learned that we should choose **free**, **open source fonts** so we adapted to that by selecting from Google fonts.





### Learnings: Components

- A UI inventory is useful to examine the current website.
- The USWDS naming convention helps us make consistent component names.
- The USWDS component kit in Figma can be used as a good starting point.

### U.S. Web Design System (USWDS)

### Learnings: General

- Pay attention to clients' working environment
  - Eg. Figma subscription plan, budget, legislative state.
- Client may have some rigid rules that limit design options:
  - Taxonomy: CRS has different research teams that cover different issue areas they cover. They are very specific about their categorization of the issue areas.
  - Colors: blue, white and red are the main go to colors. They do not like to deviate from these colors.
- Other considerations:
  - Competitive research: CRS has an important policy of being non-partisan so when doing competitive research, we must equally cover all the political spectrum. For example, we should list competitor names in alphabetical order.

### Learnings: Documentation

- Start early: it's much easier to work on documentation early on, as opposed to working on it after finishing the designs
- Include a table of contents on each page for easy navigation
- Documentation will keep changing as you keep on editing and improving your design system
- Organize elements in order of relevance and frequency of use
- Make sure to back up/justify design choices: using research, data, industry standards...

### Challenges & Solutions

- Familiarity with Design Systems
- Access to the CRS site
- Organization in Figma
- Balancing existing guidelines (USWDS, CRS) with creativity
- Verifying if chosen colors go well together
- Usability testing with end users



# Thank You