



## Government of Canada Design System

Documentation plan

Sep 18, 2019

## Documentation plan objectives

- Deliver a minimum viable design system for the next iteration of WET and GC web guidance
- Plan MVP feature/component development
- Establish documentation layouts to support ease of use
- Establish navigation to make documentation easy to find

# Documenting page layouts (templates), patterns and components

## Objective

**Objective:** Determine how best to document components, styles and design patterns to make them easy to understand and use

- Review approaches other design systems have used
- Consider how to allow for experimentation and quicker improvements to live services
- Express thoughts on the design system as a stand-alone site or part of Canada.ca, its navigation system and labels
- Review template examples for components and suggest possible user issues or gaps that could prevent easily consolidating various current documentation systems
- Discuss ways the community might be able to engage and gaps in facilitating engagement
- Plan timelines towards a live production of the Design System documentation

## Expected audiences/top tasks

#### **Developers**

#### Publishers:

- What's available
- HTML to copy
- Using beta design

#### Contributors:

- Submitting new code
- New documentation
- Experimentation criteria
- Adding variants (ie react)

#### Maintainers:

- Updates
- Breaking changes

### **Designers**

#### Communicators:

- What's available
- Constraints + what is mandatory
- When to use
- Writing style
- How to display choices or data meaningfully
- Theming (apps, intranets, etc)

#### Researchers/designers:

- Known limitations
- Research and testing
- More on styles

#### 3rd parties

#### Collaborators:

- Opportunities to reuse research
- Designs and code
- Contacting both GC theme and specific services

#### External WET community:

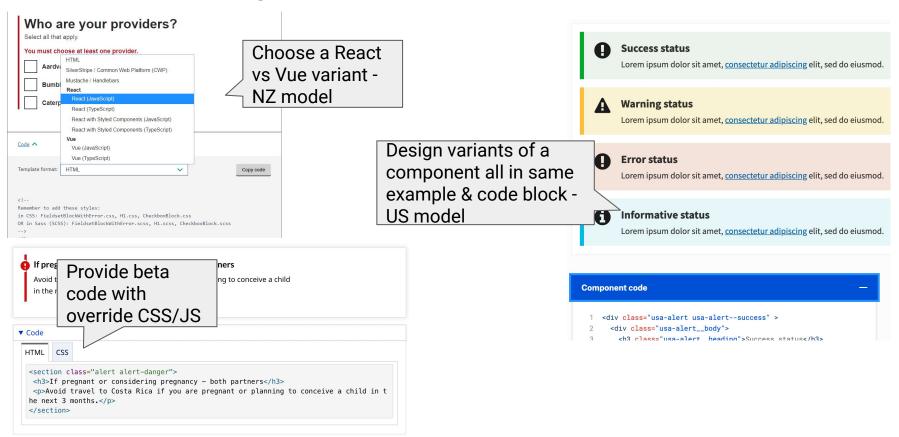
- Using or contributing as a non-GC theme partner
- Theming
- Adding variants

## Documenting components and patterns

#### **Principles**

- Ensure example and code is easily findable
- Include semantic versioning and change log
- Provide design for code variants
- Provide design for component variants
- Provide beta variants where available, with necessary CSS and JS overrides
- Ensure it's clear how to:
  - Report issues or gaps (and see overview of backlog)
  - Volunteer to experiment on a new pattern
  - Submit a beta with code
  - Move from beta to PR process for stable

## Documenting variants



Documenting templates

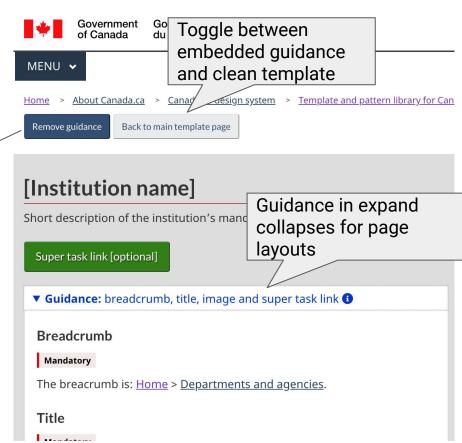
Provide link to the generic page layout



▶ Code

Update will move the guidance toggle into a sticky banner with back to guidance link - AUS model





## Documenting variants/configurations without examples

#### **Image**

#### Optional

The 1200x726 space behind the H1 can be used for a banner or image. The image does not have to take up the whole space and can be customised as needed.

The image and H1 should be visually distinct from the <u>Canada.ca</u> <u>homepage</u> to prevent confusion between institutional landing pages and Canada.ca.

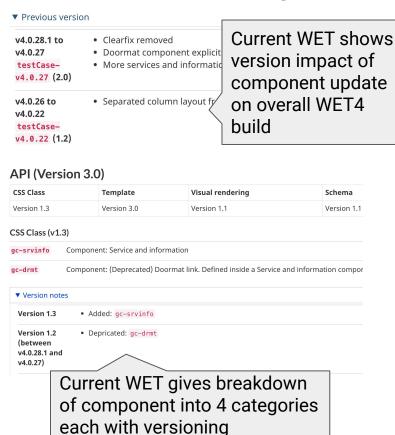
**Variation:** Apply the <u>ip-cover-hide-mobile</u> class in addition to <u>ip-cover-img</u> to hide the image in mobile view.

In page layouts, variants on a component can be mentioned within guidance blocks

Option	Description	How to configure
Disabled state	Disabled inputs will not be clickable. Visual indications include greying out the control and adding a 'stop' cursor icon on hover.	To toggle a disabled state:  • Add the class is— disabled to the list item of the checkbox or radio item  • Add disabled attribute to the input field
Inline state	Inline radio buttons or checkboxes will display side by side on larger screens and wrap to new lines, rather than vertically.	Add the form-label-inline class to each checkbox or radio button label.
Success checkboxes (green)	Success checkboxes use a green background within the checkbox when it is selected to support user confidence that they are ready or successful. Recommended application is for checklists.	Add the checkbox-green class to each checkbox list item.

In components, variants can be documented in tables if less frequently used, or in a set of similar variations (but option+description must be plain language)

## Documenting versions and changes



#### Here's the proposal:

- Single version per component that would increment with changes to the pieces (API version - would not mention WET version on component page)
  - These would then have version notes + a label saying what the update affects.
- Specs on the visual rendering will only be made visible or changed in alpha design patterns so do not need to be in the design system proper
  - These changes then get reflected in the other categories
- A progressive disclosure pattern would be used to get to technical markup of the schema' or template near the bottom of the page.

## Prioritising development of the WET5 core and documentation

## Prioritising components and patterns

#### Principles

- Must include core designs to support adoption of Canada.ca
- Must include patterns from recent projects showing top features supporting top task success
  - o contact us patterns, decision points, interactive questions/forms, sign in and authentication
- Must include a pilot collaboration to fork another design system's pattern

#### Next steps

- DTO will present a components list based on the WET, recent and spec
- Determine what we fork from gov.uk or other design system
- Documentation and WET5 dev

## Component priorities - first cut

- Generic page template semantic markup
  - Grids and layout, JSON-LD support for schema.org, revised outline markup
- Components for decision points and interactive questions
  - Expand/collapse, radio/checkboxes, toggle, responsive tables, tabbed interface, auto-complete/polyfill, buttons, overlays, checkbox display logic, postal code finder
- Components for nav options
  - Sticky left hand 'on this page' nav, circles nav for SIT, Canada.ca menu, long document pattern
- Support for consistent authentication experience
  - Sign in pattern, customisable form validation messages, contextualising content based on region and URL parameters
- Support for responsive tables
- Nicer data visualisation charts and graphs

# Design system nav and getting started/collaboration guidance

## Design system comparison (see annex A)

	Name	Landing	Stand alone	Top nav?	Code
UK	Descriptive	Doormats	Yes	Yes	Included w/ex
Australia	Descriptive	Doormats	Yes	Yes	Included w/ex - templates are separate page examples and code only in github - component examples are in a second column right of the title, always top of page
us	Descriptive	Doormats	Yes	Yes	Included w/ex
New Zealand	Descriptive	Doormats	Yes	Yes	Included w/ex
Material Design	Branded	Doormats	Yes	Yes	Only style and examples
Clone	Branded	No doormat	Yes	No	Included first
Aurora	Branded	Role based	Yes	Yes	Included w/ex
Shopify	Branded	Doormats	Yes	Yes	Included w/ex

## Branding and navigation principles

- Unified design and component documentation
  - How do we reconcile frequent publishing with technical/updating guidance? Updating as smaller use case at bottom of page?
- Distinct design system branding
  - Use a broad, official, descriptive name (e.g. GC Design System)
  - Build as a "stand-alone" site with top nav (tabs) and left nav conventions
- Support for non-Canada.ca implementations (intranet, authenticated spaces and sign in, non-GC users)

## What we need to support use and collab

- Documented get started process to use the system
  - CDTS and code variant distributions
- Experiment requirements and support:
  - Easy get started experimenting, how to do it well
  - Modularised component implementation and changes
  - Clear exit requirements to get to beta and integrate into WET5
- Tracking component development
  - Issues tracking in github repo
  - Backlog: currently working with a documentation oriented project board, might need to add more component dev phases: GCDS backlog
  - Documenting easy to follow contribution guidelines
  - Documenting easy how to meet standards guidelines

## 90-day plan

## 90-day plan - Documentation

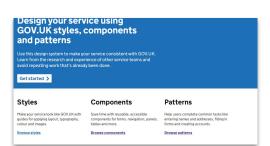
Activity	Deadline
Present 90 plan	Oct 31
Present documentation page layout and example	Nov 14
MVP patterns in new library (and translated)	Dec 15
Design system in production (at least limited distribution) with contribution guidance	Jan 15
Host in Drupal/Github integrated environment	Mar 2020
Update to Design System branding and nav	Mar 2020
Elaborated Getting started and Experimentation guidance and support	Mar 2020

## Annex A: Comparative analysis of other design systems

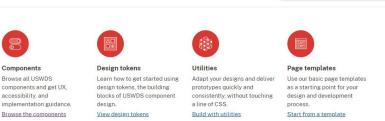
### Other design systems

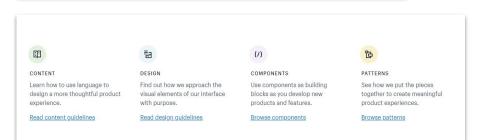
- GOV.UK Design System
- Australian Government Design System
- United States Web Design System
- New Zealand Government Design System
- Google Material Design
- Clone
- Aurora
- Polaris (Shopify)

### Landing pages with doormats













#### **Basics**

Guidance for applying basic elements, like colour and typography. We're working on layout, iconography, images, and media now.

Browse some basics

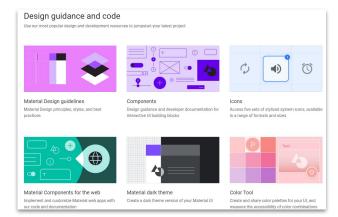
#### Components

Reusable multiple components for navigation. panels, forms, tables, and more. We're working on these

Browse some components

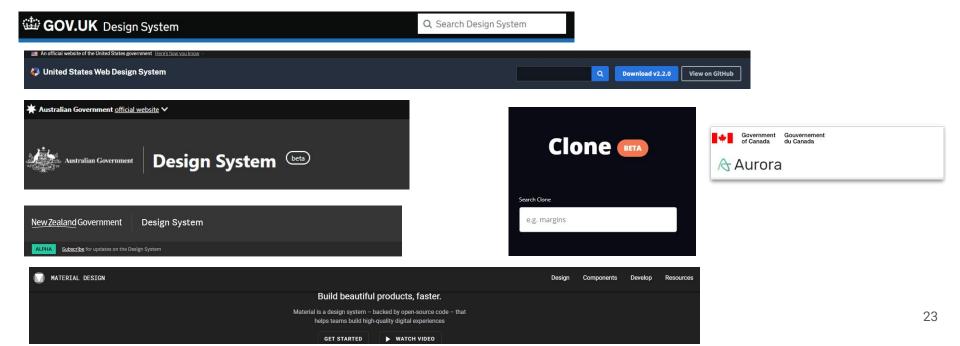
#### Patterns (coming soon)

Help users by providing easy flows to complete specific tasks, like setting up accounts, filling in forms, and checking eligibility. We'll be inviting you to co-design some patterns with us soon.



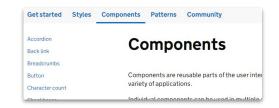
## Stand-alone sites, with additional branding

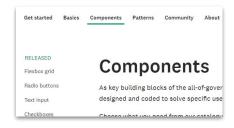
All government design systems are stand-alone sites, not connected to the overall site navigation, with their own search.

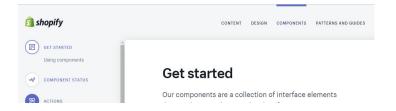


## Using top and left menus











## NZ specific component - how to present code

