

DIGITAL WEB Services Network

Bringing together digital product managers, designers, and engineers.

cdt.ca.gov/dwsn

DWSN Quarterly Forum

Thursday, April 21, 2022



California DEPARTMENT OF TECHNOLOGY STRATEGY INNOVATION DELIVERY



Digital Web Services Network

- Welcome to the DWSN forum, we will begin shortly.
- For the best experience, please use your computer to join the meeting.
- Mute your audio.
- Turn off your video.
- Use the raise hand button or the meeting chat for comments and questions.

DWSN Forum Agenda

| Opening Remarks | (Koji Kumpulainien) - 2 min |
|---|--|
| Web Components | (Koji Kumpulainien) - 3 min (Aaron Hans) - 5 min (All) - 10 min |
| Next Steps and Vision Research Design Updates Engineering and Integrations a. Website audit | (Yesenia Gutierrez) - 2 min (Yesenia Gutierrez & Artem Khomishen) - 10 min (Sarah Letson) - 15 min (Adam Little) - 5 min (Chach Sikes & Timothy Shambra) - 10 min (Yesenia Gutierrez) - 3 min |



Opening Remarks

Koji Kumpulainien

California Department of Technology









Koji Kumpulainien California Department of Technology







Big Ideas Web Components

Aaron Hans California Office of Digital Innovation







Big Ideas Open Discussion

ALL





California Design System Spring '22 update for DWSN

April 21, 2022 CDT & ODI



Next steps and vision

Next steps and vision What we have been up to

• NYU student contribution to issues and documentation

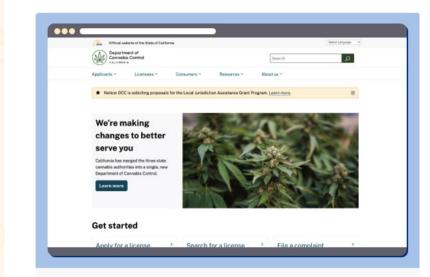
Contact request: Would love to contribute to project! #754



opened this issue 16 days ago \cdot 2 comments

- Research insights to foster maturity from recent Design System website implementations
 - Department of Cannabis Control
 - Broadband for All
- Considering paths to DS adoption and supporting implementations as needs arise
- v6 release of State Web Template which will have a similar look and feel as the Design System
 - State Web Template Transition Plan
- Design System Roadmap

Spring '22 update for DWSN



New issue

Department of Cannabis Control



Broadband for All

Next steps and vision State Web Template Transition Plan



v5 State Web Template (currently in production) v6 of the State Web Template (last major version release)

v6 Release

Coming Soon!

- Restructure information architecture
- Audit all content pages
- Align component pages to Design System
- Re-design content and page

patterns Spring '22 update for DWSN



Design System v1 (first production ready release)

Next steps and vision Design System Roadmap

State Web Standards

CA Design System

- Update and revise statewide web standards based on Design System direction
- Revamp and update
 webstandards.ca.gov
 portal to reflect new
 direction and strategy

CA Web Publishing Integration

- Create a WordPress theme option to enable use of Design System and new page editing experience
- Establish equivalent or better functionality and features found in the
- state web template
 Create a migration strategy for
- transition from state web template
- Create and evolve style guides and playbooks for content creation, design, engineering and more
- Identify common UX patterns across
 CA.gov websites

How does this plan sound to you? What might this mean for your work?

Type in the chat!

Keep sharing your thoughts https://github.com/cagov/design-system https://designsystem.webstandards.ca.gov/contact-us

Design System BETA

Spring '22 update for DWSN

How interested are you in adopting the Design System on your state site?

- 1. Very interested Would adopt as soon as it's ready
- 2. **Interested** Would adopt after a few more sites do/at a more appropriate time
- 3. **Might be interested** Need more information/time/buy-in
- 4. Likely not interested
- 5. Will likely never be interested
- 6. Other (share in chat)

Poll

What we've learned

Research share out

What we've learned **Thanks for talking with us!**

CalData

California Department of Technology Broadband for All Team

California State Library

Commission on POST

Department of Toxic Substances Control

Franchise Tax Board

Symsoft

and more...

What we've learned We heard from you...

You want:

- Ability to customize components
- Streamlined code & option to use only certain components
- Easy version updates, flexible integrations with module bundlers and plugins
- Components that work with web applications and pages, interact well with each other, fit into pre-existing layouts, work across platforms, and inspire the viewer

Your work environment includes:

- Collaboration & communication challenges within departments & between the CDT Web Template team and departments
- Resistance to change & insular cultures

For you to adopt a new design system, you'd need:

- To prove new features' value to leadership
- To fit adoption into your existing work

Research Next up in our learning plan

- 1. Which components the Design System should include or remove
- 2. How we can best support state teams in adopting the Design System

Which Web Template components give you the most trouble?

What could we change to improve them?

Type in the chat!

Keep sharing your thoughts https://github.com/cagov/design-system https://designsystem.webstandards.ca.gov/contact-us

Design System BETA

Poll

Spring '22 update for DWSN

New Issue Template to Propose a Component

https://github.com/cagov/design-system/issues/new/choose

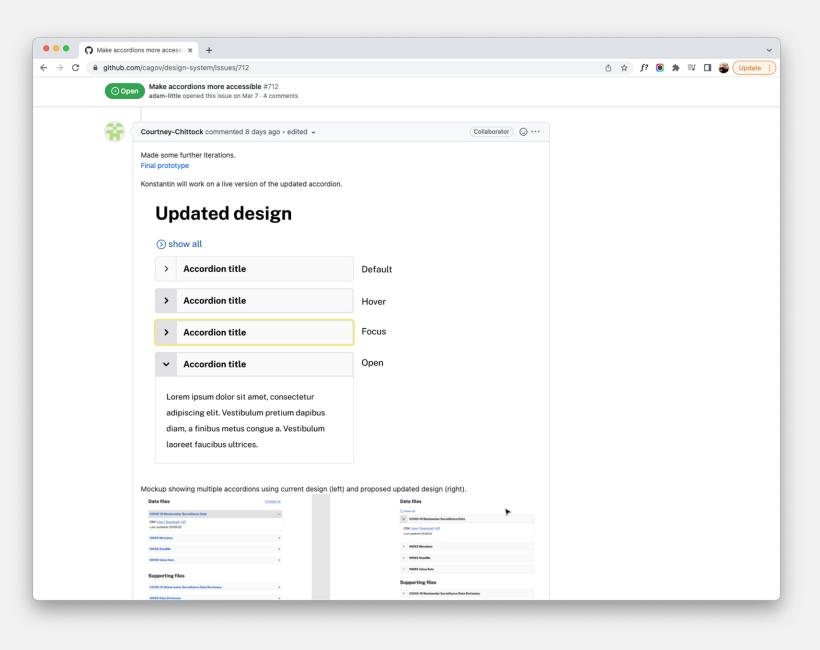
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|-----------|--|-----------------------------|---------------------|-----------|------------|------------|------------|----------|
| <> Code | • • Issues 150 | 1 Pull requests 1 | Discussions | Actions | Projects 1 | 🕮 Wiki | I Security | |
| | | | | | | | | |
| | General issue Tell us about an issue | | | | | | Get | started |
| | Bug report Report a design system | bug | | | | | Get | started |
| | Support Submit request for supp | ort | | | | | Get | started |
| | Contact Get in touch with us | | | | | | Get | started |
| | Task Standard task template | | | | | | Get | started |
| \langle | Proposal Design system 01 - Prop | ose a design system proj | ect or component | > | | | Get | started |
| | UX Review Design system 02 - UX o | checklist for reviewing a d | design system compo | onent | | | Get | started |
| | Technical Review Design system 03 - Tech | nnical checklist for review | ing a design system | component | | | Get | started |
| | Component registrat Design system 04 - Regi | | the design system | | | | Get | started |

Spring '22 update for DWSN

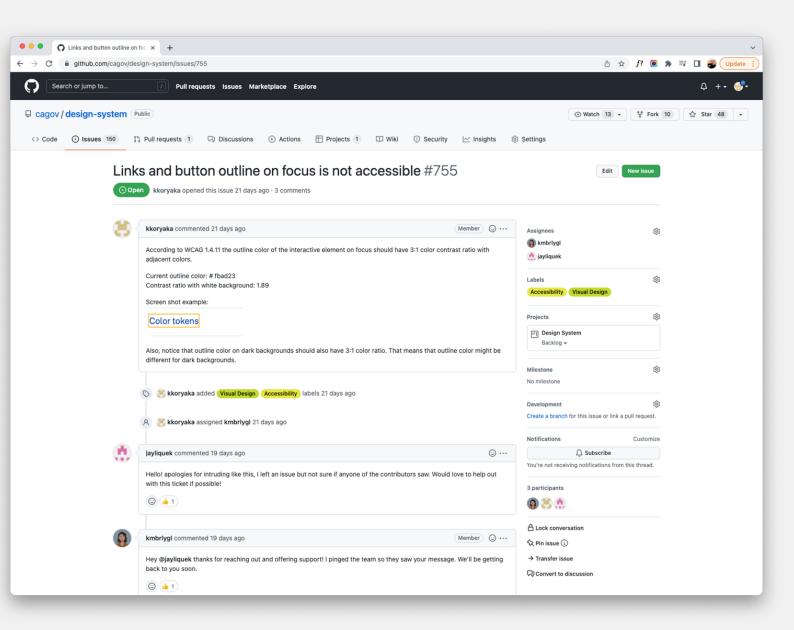
Design updates

What's new

Improving accessibility (e.g. Accordion component)



- Improving accessibility (e.g. Accordion component)
- Collaborating with the community (e.g. improved button styles)



- Improving accessibility (e.g. Accordion component)
- Collaborating with the community (improved button styles)
- Creating more options and opportunities for personalization (e.g. color palette)

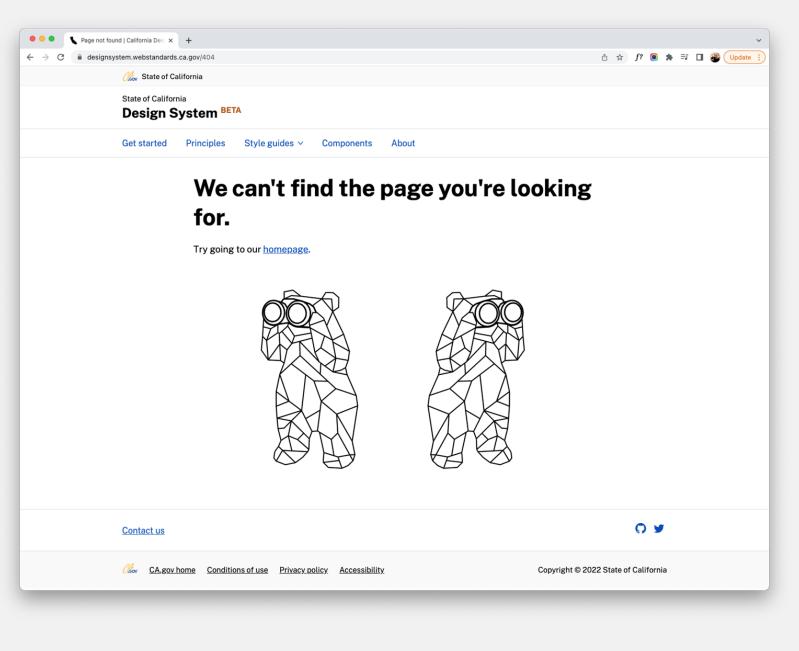
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Spring '22 update for DWSN

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- Improving accessibility (e.g. Accordion component)
- Collaborating with the community (improved button styles)
- Creating more options and opportunities for personalizations (e.g. color palette)
- Finding opportunities for more personality (e.g. 404 bears)



Design updates Process improvements

• Figma UI kit

| OOO A Digital.ca.gov screens | Design system colors | Cannabis.ca.gov screens Map Design QA UI Design kit 🛠 + | | |
|---|----------------------|---|--|---|
| ₿~ <mark>▶</mark> ~ ¤~ □~ ©~ 1 | : 🖲 🖉 | 🔘 Design System / UI Desig | an kit ∽ | ର 🔕 <mark>Share</mark> ⊳ 75% |
| Layers Assets* | Components ^ | -20300 -20208 -20100 -20000 -19900 -19900 -19900 -19900 | -19500 -19400 -19300 -19200 -19100 -19000 -18900 | Besign Prototype Inspect |
| Pages Layout | + 200 | Con Official website of the State of California | English <u>Español</u> 史文 <u>More</u> ~ | Background ESESES 100% |
| Components Atoms & Molecules | -13500 | Logen State of California [Site name] | Search Q | Text Styles |
| Templates | 001 | [ente name] | | + н1 |
| Patterns | ngte | Link Link Section - Section - Section - | Primary call to action | * H2 |
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| • Toolkit promotional card | | | | Effect Styles |
| Frame 24 | 3000 | Corr Official website of the State of California | English <u>Español</u> 中文 <u>More</u> ~ | O Drop shadow (button) |
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Spring '22 update for DWSN

Design updates Process improvements

- Figma UI kit
- Design tokens

| 🔴 🕘 🌑 🔪 Design | in tokens California Desig 🗙 🕂 | | | | | | | ~ |
|---|---|---|----------------|--|---------|---------|--|----------|
| \leftrightarrow \rightarrow C $$ rele | C 🔒 release-1-0-3-ahjumawi.pr.designsystem.webstandards.ca.gov/style/tokens/ 🖞 🛧 f? 💽 🛸 🎞 🔲 🏶 🤇 | | | | | | | Update : |
| C | Cov State of California | | | | | | | |
| | State of California Design System BETA | | | | | | | |
| G | Get started Principles St | yle guides 🗸 Components Al | bout | | | | | |
| C | On this page | Design toke | ens | | | | | |
| R | Responsive tokens | The California Design S | | esign is built from a | onsist | ant | | |
| Ν | Measure tokens | elements of style we ca | ll design toke | ens. Design tokens a | are set | of css- | | |
| C | Color tokens | variables that constitut units. Design tokens all | | | | | | |
| т | Typography tokens | design elements, layouts, and components. | | | | | | |
| В | Border tokens | Responsive tol | kens | | | | | |
| S | Shadow tokens | Container width | | | | | | |
| A | Animation tokens | | | | | | | |
| | | Variables | | Example | | | | |
| | | w-lg: 1176px; w-md: 960px; w-sm: 720px; w-xs: 540px; w-page-content: 876px; | | .official-header.con max-width: var(w· } | | | | |
| | | | | | | | | |
| | | W-XS | w-sm | w-md | | w-lg | | |
| | | Viewport width | | | | | | |
| | | | | | | | | |

Design updates Process improvements

- Figma UI kit
- Design tokens
- From components to patterns

| _ | DV.UK Design Syst × + | | | ~ |
|--------------|--------------------------------------|---|---------------------------------------|---------|
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| | 🎲 GOV.UK Design S | System | Q Search Design System | |
| | Get started Styles Com | ponents Patterns Community | | |
| | | | | |
| | Ask users for | Patterns | | |
| | Addresses | i atterns | | |
| | Bank details | | | |
| | Dates | Patterns are best practice design solutions for page types. | specific user-focused tasks and | |
| | Email addresses | | | |
| | Equality information | All of the patterns in this section are supported examples where possible. | by written guidance and contain coded | |
| | Gender or sex | | | |
| | Names | Patterns often use one or more <u>components</u> at the context. | nd explain how to adapt them to | |
| | National Insurance numbers | | | |
| | Passwords | | | |
| | Payment card details | | | |
| | Telephone numbers | | | |
| | Help users to | | | |
| | Check a service is suitable | | | |
| | Check answers | | | |
| | Confirm a phone number | | | |
| | Confirm an email address | | | |
| | Contact a department or service team | | | |
| | Create a username | | | |
| | Create accounts | | | |
| | Start using a service | | | |
| | Recover from validation errors | | | |
| | Pages | | | |
| | Confirmation pages | | | |

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Engineering and integrations

Engineering and integrations
Understanding ca.gov tech stacks

- Open source contributions
- ca.gov tech stack research

Engineering and integrations Open-source contributions

- Kurtis from FTB shared input on simplifying the accordion component.
- Students from an open source class at NYU chose our project for their coursework. We hope to encourage more students from California to do the same.



We seek feedback and contributions.

https://github.com/cagov/design-system

Submit feedback or pull requests:

Before



After

What tools do you use to share code with your team and partners?

- 1. Azure DevOps
- 2. BitBucket
- 3. GitHub
- 4. **FTP**
- 5. None
- 6. Other (share in chat)

Engineering and integrations New datasets about the ca.gov tech stack

- Wanted to understand what's come before to inform our approach to supporting adoption and integration of the Design System to help meet State agencies where they are.
- Had long list of all ca.gov domains, ever (~2500) with about ~950 currently active web sites
- Used diagnostic web tools and custom scrapers to collect information on all ca.gov domains
- This includes sites created in-house as well as from vendors

Engineering and integrations State Template Adoption

| State Template version | Domains | Year launched |
|------------------------|---------|----------------|
| 6.0.x | 10 | 2020 |
| 5.5.x | 117 | 2018 |
| 5.0.x | 129 | 2016 |
| Design System | 4 | 2022 |
| Still determining | 683 | 2007 - Present |

Source: ca.gov analysis of 943 active ca.gov sites using custom web scrapers (April 2022)

Spring '22 update for DWSN

Engineering and integrations Most common web publishing tools on ca.gov sites

| Publishing stack | Domains | Notes |
|----------------------|-----------|-------------------------------------|
| ASP.net | 207 | |
| WordPress | 205 | |
| Not obvious | 177 | Bespoke code, unclear provenance |
| Other "Modern" stack | 82 | Flexible, performant, scalable |
| Dreamweaver | 62 | |
| Drupal | 51 | |
| *Other | < 40 each | |

Source: Office of Digital Innovation analysis of 941 active ca.gov sites using data from offthe-shelf web diagnostic tool, Wappalyzer (February 2022)

Other* SiteCore DNN Sharepoint "Dinosaur" (very old HTML <) Microsoft Word Salesforce Adobe Experience Manager Rails Wix Squarespace Concrete CMS Cold Fusion JavaServer Faces Ckan

Engineering and integrations What's next?

- Better understand publishing patterns and needs
 - Support design flexibility
 - continuous responsiveness to community feedback
 - speedy content changes
 - fully accessible workflows
- Continued community-building, collaboration and code-sharing with State technologists
- Long-term: publish aggregated data on key web metrics (performance, Design System adoption, readability, accessibility)
 - Requires that we consolidate a shared list of active and inactive web domains to use as key for domain analysis

What's coming

What's coming CA Design System

In Progress:

- v6 release of State Web Template 6.0 Content & Design Strategy
- UI updates in progress to v6 State Web Template website to have same look and feel as Design System site
- Component Research planning and strategy

Upcoming Releases:

- All cards will include clickable images and text (except the homepage hero card)
- New illustration for 404 error page (bear with binoculars)
- Bug fixes to base-css preview

- Add icons component documentation
- Add icon component illustration icon for documentation page link
- Removed "Download" from library links

Thank you

Design System BETA

https://designsystem.webstandards.ca.gov



Suggested Future Topics Closing Remarks

Koji Kumpulainien

California Department of Technology







Post conference materials will be published on the <u>DWSN Website</u>.

For questions, please write to: DigitalWebServicesNetwork@state.ca.gov



Bringing together digital product managers, designers, and engineers.







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Next DWSN Quarterly Forum Thursday, July 21, 2022



