Develop Accessible Dashboards CHEATSHEET

ForeSITE
Branding Package

epiforesite.github.io/branding-package/

General Design Pinciples

- **Make content perceivable**
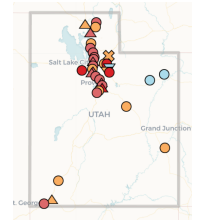- **Make interactions operable**
- **Make structure understandable**
- **Make data accessible**
- **Design for consistent behavior**

✓ Include data tables with all visualizations

✓ Prioritize tables over interactive visualizations

✓ Highlight key insights and put less important information to tooltips

✓ Use plain-language alt text and summaries

✓ Limit interactions to key tasks

Facility	County	LHD
Tremonton WWTP	Box Elder	Bear River
Brigham City WWTP	Box Elder	Bear River
Logan City WWTP	Cache	Bear River
Hyrum City WWTP	Cache	Bear River
North Davis SD	Davis	Davis County
Central Davis SD	Davis	Davis County
South Davis SD - North	Davis	Davis County
South Davis SD - South	Davis	Davis County
Salt Lake City WRF	Salt Lake	Salt Lake County

with alt text

Download Data   more information ⓘ

Avoid Common Accessibility Errors

Use alt text & ARIA labels correctly

```
<img src="wastewater-trends.png"
     alt="COVID-19 viral load in Salt Lake wastewater, Jan-Mar 2025">

<button aria-label="Download wastewater data">
  <i class="icon-download"></i>
</button>

<iframe src="map.html"
        title="Map of Utah wastewater plants"></iframe>
```

Ensure sufficient contrast

2.14 : 1 ❌

7.18 : 1 ✅

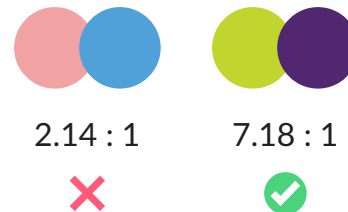### Make content keyboard-accessible

```
<div tabindex="0">
  Daily wastewater viral load readings...
</div>
<div role="tablist">
    <button role="tab">Salt Lake</button>
    <button role="tab">Utah</button>
</div>
```

Use meaningful structure

```
<h1>Utah Wastewater Dashboard</h1>

<h2>Salt Lake County</h2>
  <h3>Viral Load Trends</h3>
  <h3>Sampling Sites</h3>
  <h3>Download Data</h3>
```

References: Tools & Resources

Guidelines

WCAG 3
W3C
Accessibility Guidelines

www.w3.org/TR/wcag-3.0

Detect acessibility issues

WAVE
web accessibility evaluation tool

wave.webaim.org

ax DevTools

www.deque.com/axe/devtools

Check color contrast

WebAIM
web accessibility in mind

webaim.org/resources/contrastchecker

Screen readers

NVDA
www.nvaccess.org

JAWS
www.freedomscientific.com/products/software/jaws

VoiceOver

Related documentation of this cheatsheet: bit.ly/foresite-accessibility-guidelines