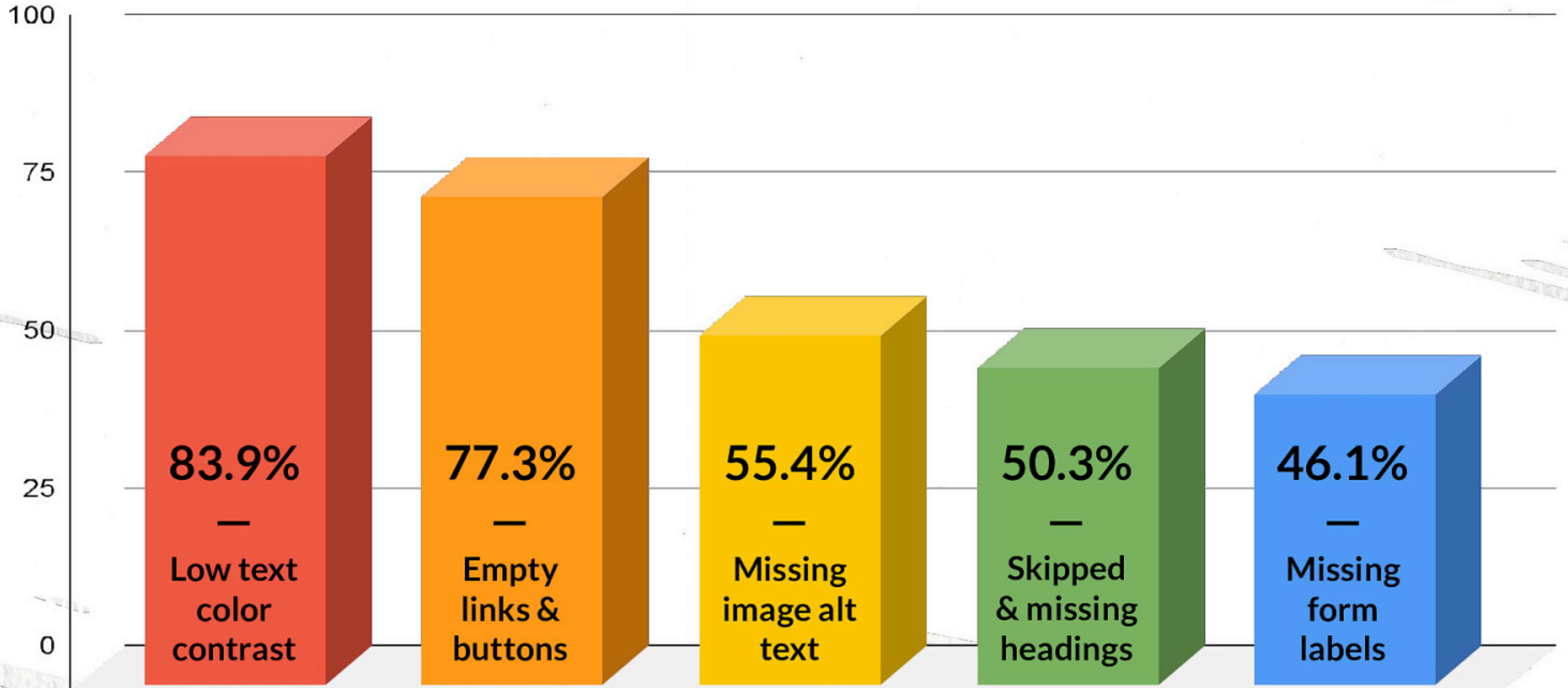


Accessibility is  
a design choice

and an implementation choice as well

# Top design-focused issues of 2022



Source: [webaim.org/projects/million](https://webaim.org/projects/million) → [noti.st/cariefisher/Bin4xT](https://noti.st/cariefisher/Bin4xT)

**Low text  
color  
contrast**



# BRUCE SPRINGSTEEN

BORN TO RUN



SPRS 7907

BRUCE SPRINGSTEEN

SONY RECORDS STEREO



# THUNDER ROAD

Bruce Springsteen: guitar, vocals, harmonica  
Garry Tallent: bass guitar  
Max M. Weinberg: drums  
Roy Bittan: Fender Rhodes, glockenspiel  
Clarence Clemons: saxophones  
Background vocals: Roy Bittan,  
Mike Appel, Steve Van Zandt

# TENTH AVENUE FREEZE-OUT

Bruce Springsteen: guitar, vocals  
Garry Tallent: bass guitar  
Max M. Weinberg: drums  
Roy Bittan: piano  
Clarence Clemons: tenor saxophone  
†Randy Brecker: trumpet, flugel horn  
†Michael Brecker: tenor saxophone  
\*\*Dave Sanborn: baritone saxophone  
Wayne Andre: trombone

# NIGHT

Bruce Springsteen: guitar, vocals  
Garry Tallent: bass guitar  
Max M. Weinberg: drums  
Roy Bittan: piano, harpsichord, glockenspiel  
Clarence Clemons: saxophone

# BACKSTREETS

Bruce Springsteen: guitar, vocals  
Garry Tallent: bass guitar  
Max M. Weinberg: drums  
Roy Bittan: piano, organ

# BORN TO RUN

Bruce Springsteen: guitar, vocals  
Garry Tallent: bass guitar  
Ernest "Boom" Carter: drums  
\*David Sancious: keyboards  
Danny Federici: organ  
Clarence Clemons: saxophone

# SHE'S THE ONE

Bruce Springsteen: guitar, vocals  
Garry Tallent: bass guitar  
Max M. Weinberg: drums  
Roy Bittan: piano, harpsichord, organ  
Clarence Clemons: saxophone

# MEETING ACROSS THE RIVER

Bruce Springsteen: vocals  
Roy Bittan: piano  
Richard Davis: bass  
†Randy Brecker: trumpet

# JUNGLELAND

Bruce Springsteen: guitar, vocals  
Garry Tallent: bass guitar  
Max M. Weinberg: drums  
Roy Bittan: piano, organ  
Clarence Clemons: tenor saxophone  
Strings arranged and conducted by Charles Calello

†Appear courtesy of Arista Records  
\*Appears courtesy of Epic Records  
\*\*Appears courtesy of Warner Reprise

PRODUCED BY BRUCE SPRINGSTEEN, JON LANDAU, AND MIKE APPEL  
\*PRODUCED BY BRUCE SPRINGSTEEN, AND MIKE APPEL

[Stereo]  
SRCS 7907



# BRUCE SPRINGSTEEN

# BORN TO RUN



SRCS 7907

BRUCE SPRINGSTEEN - BORN TO RUN

SONY RECORDS STEREO



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Sony Music Entertainment (Japan) Inc.

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再 ¥2,000 (税込) 税抜価格 ¥1,942 再 97.12.20まで

95・12・21 (75・8・25) (Y)











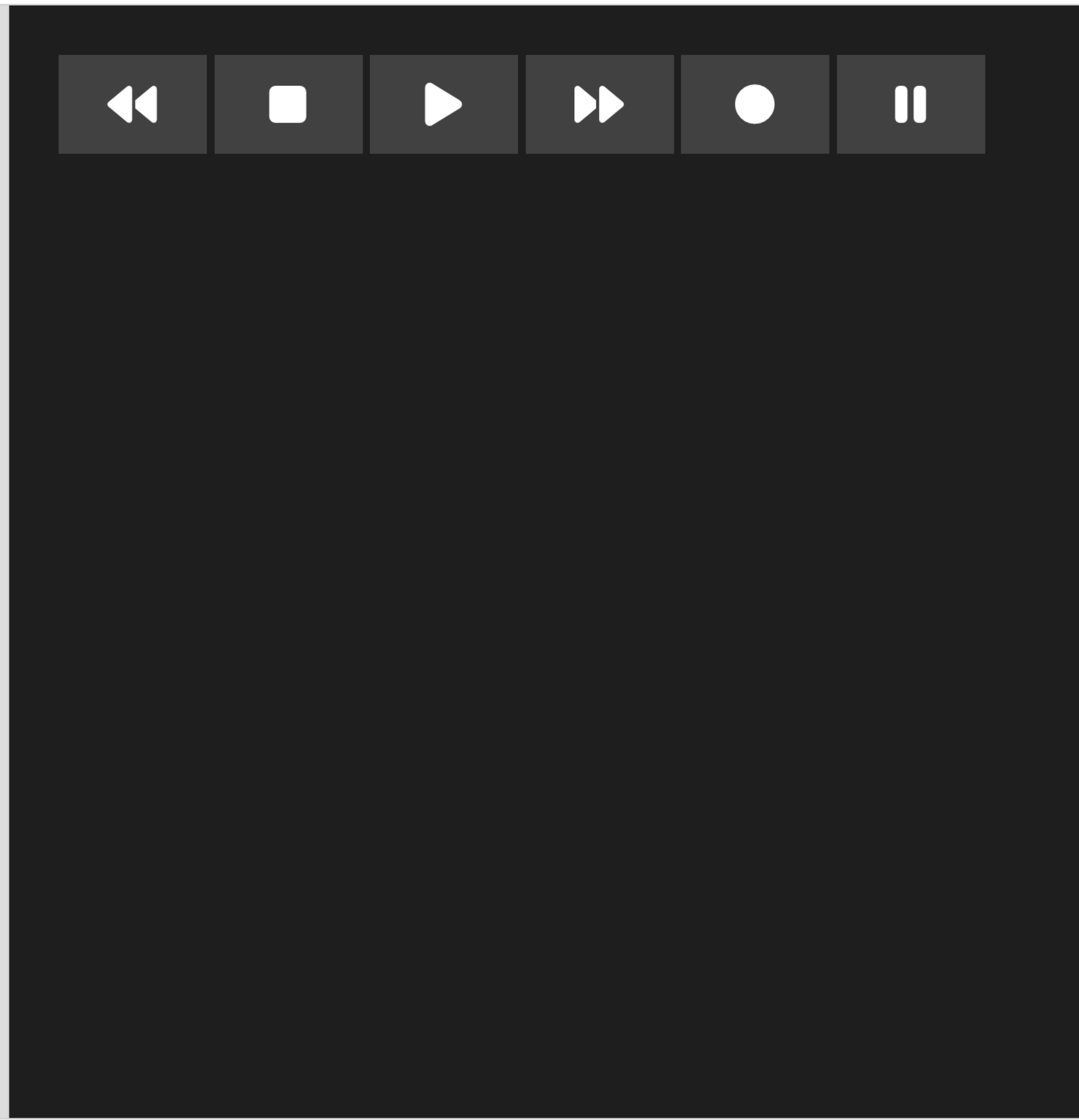


**Empty  
links &  
buttons**





```
HTML    
1 <button>  
2   <i class="fa fa-backward"></i>  
3   <span class="visually-hidden">rewind</span>  
4 </button>  
5 <button>  
6   <i class="fa fa-stop"></i>  
7   <span class="visually-hidden">stop</span>  
8 </button>  
9 <button>  
10  <i class="fa fa-play"></i>  
11  <span class="visually-hidden">play</span>  
12 </button>  
13 <button>  
14  <i class="fa fa-forward"></i>  
15  <span class="visually-hidden">fast forward</span>  
16 </button>  
17 <button>  
18  <i class="fa fa-circle"></i>  
19  <span class="visually-hidden">record</span>  
20 </button>  
21 <button>  
22  <i class="fa fa-pause"></i>
```



```
* CSS    
JS  
```






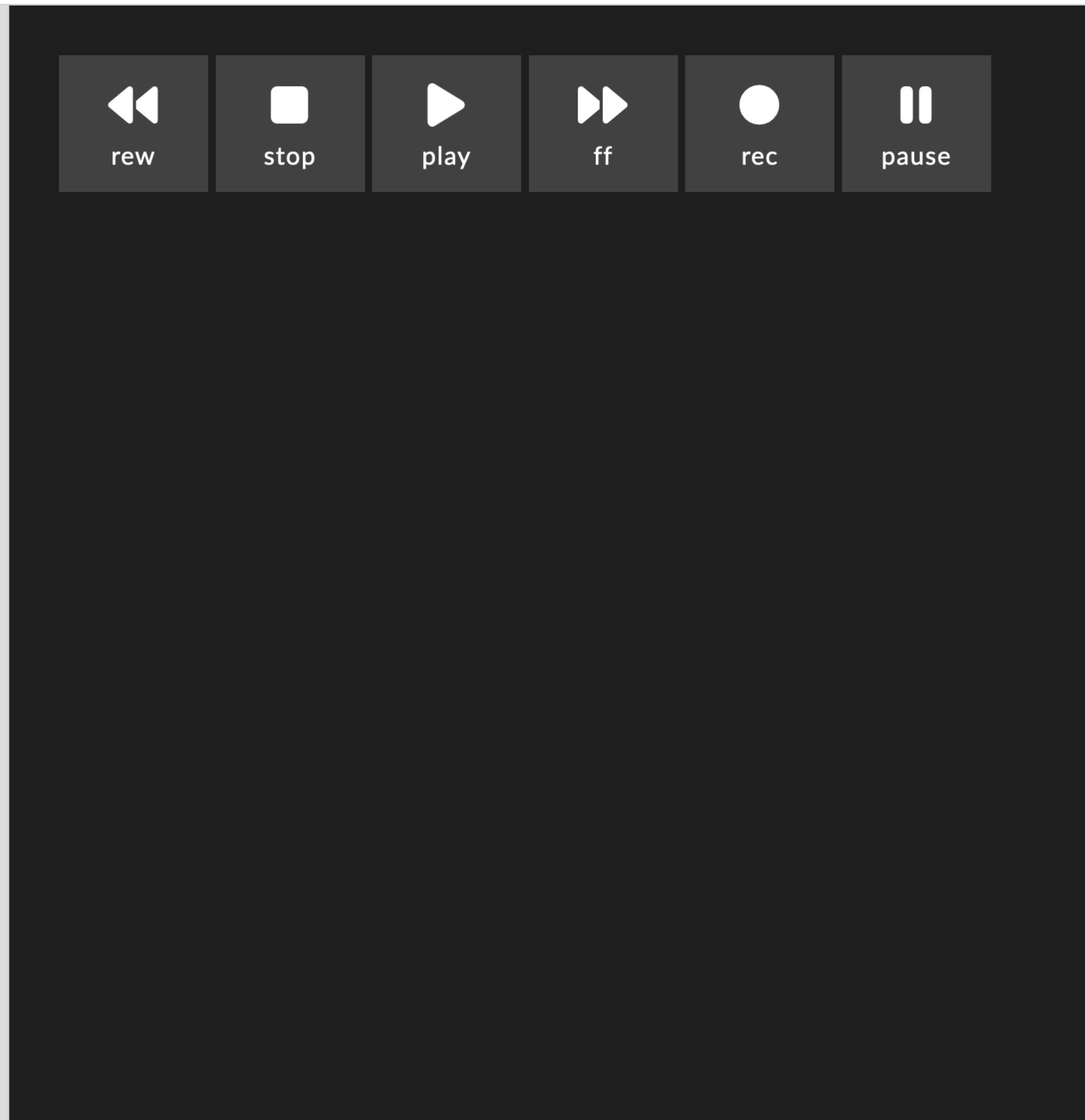


 HTML  

```
1 <button>
2   <i class="fa fa-backward"></i>
3   <span aria-hidden="true">rew</span>
4   <span class="visually-hidden">rewind</span>
5 </button>
6 <button>
7   <i class="fa fa-stop"></i>
8   <span>stop</span>
9 </button>
10 <button>
11   <i class="fa fa-play"></i>
12   <span>play</span>
13 </button>
14 <button>
15   <i class="fa fa-forward"></i>
16   <span aria-hidden="true">ff</span>
17   <span class="visually-hidden">fast forward</span>
18 </button>
19 <button>
20   <i class="fa fa-circle"></i>
21   <span aria-hidden="true">rec</span>
22   <span class="visually-hidden">record</span>
```

 CSS  

 JS  



The image shows a dark-themed audio player interface. It features six buttons in a row, each with a white icon and a label below it: 'rew' (rewind), 'stop' (stop), 'play' (play), 'ff' (fast forward), 'rec' (record), and 'pause' (pause). The buttons are set against a dark background with a subtle grid pattern.



**Missing  
image alt  
text**





A user group about accessibility and inclusive design.

[Home](#) [Meetups](#) [About](#) [Submit a talk](#)

# A11y Meetup Berlin

## Our Upcoming Meetup

The main goal is to encourage everyone talking, thinking, and learning about digital access / inclusion and people with different disabilities.

The screenshot shows the browser's developer tools interface. The top toolbar includes icons for Inspektor, Konsole, Debugger, Netzwerkanalyse, Stilbearbeitung, Laufzeitanalyse, Speicher, Web-Speicher, and Barrierefreiheit. The HTML search bar contains 'HTML durchsuchen'. The DOM tree on the left shows the following structure:

```
<div class="is-default-size wp-block-site-logo">  
  <a class="custom-logo-link" href="https://a11y-meetup-berlin.de/" rel="home" aria-current="page">  
      
  </a>  
</div>  
<div class="wp-block-columns is-layout-flex wp-container-4 wp-block-columns-is-layout-flex">...</div> flex</div>
```

The Styles pane on the right shows the following CSS rules:

```
:hov .cls + [sun icon] [moon icon] [document icon]  
Element [grid icon] { Inline  
}  
.wp-block-site-logo.is-default-size img [grid icon] { Inline:2  
  height: auto;  
  width: 120px;  
}  
.wp-block-site-logo a, .wp-block-site-logo img [grid icon] { Inline:2  
  border-radius: inherit;
```

The Layout pane on the right shows the following settings:

- Layout: Berechnet, Änderungen, Kon
- Flexbox: Flex-Behälter oder -Element auswählen, um fortzufahren.
- Raster
- Box-Modell: margin: 0, border: 0



***UNIVERSAL LAW IS FOR LACKEYS.***

***CONTEXT IS FOR KINGS.***

— Lorca in *Star Trek: Discovery* S1:E3



**Skipped  
& missing  
headings**



```
HTML
1 <main>
2   <h1>The Universal Declaration of Human Rights</h1>
3   
4   <section id="preamble">
5     <h2>Preamble</h2>
6     <p>Whereas recognition of the inherent dignity and of the equal and inalienable rights of all members of the human family is the foundation of freedom, justice and peace in the world,</p>
7     <p>Whereas disregard and contempt for human rights have resulted in barbarous acts which have outraged the conscience of mankind, and the advent of a world in which human beings shall enjoy freedom of speech and belief and freedom from fear and want has been proclaimed as the highest aspiration of the common people,</p>
8     <p>Whereas it is essential, if man is not to be compelled to have recourse, as a last resort,
```

# The Universal Declaration of Human Rights



## Preamble

Whereas recognition of the inherent dignity and of the equal and inalienable rights of all members of the human family is the foundation of freedom, justice and peace in the world,

Whereas disregard and contempt for human rights have resulted in barbarous acts which have outraged the conscience of mankind, and the advent of a world in which human beings shall enjoy freedom of speech and belief and freedom from fear and want has been proclaimed as the highest aspiration of the common people,

Whereas it is essential, if man is not to be compelled to have recourse, as a last resort, to rebellion against tyranny and oppression, that human rights should be protected by the rule of law,

Whereas it is essential to promote the development of friendly relations between nations,

Whereas the peoples of the United Nations have in the Charter reaffirmed their faith in fundamental human rights, in the dignity and worth of the human person and in the equal rights of men and women and have determined to promote social progress and better standards of life in larger freedom,

Whereas Member States have pledged themselves to achieve, in co-operation with the United Nations, the promotion of universal respect for and observance of human rights and fundamental freedoms,

Whereas a common understanding of these rights and freedoms is of the greatest importance for the full realization of this pledge,

**Now, Therefore the General Assembly proclaims this Universal Declaration of Human Rights** as a common standard of



h1.Ocw 29.2667 x 18

Berlin



Inspector Konsole Debugger Netzwerkanalyse Stilbearbeitung Laufzeitanalyse Speicher

HTML durchsuchen

```
</div>
<main id="main-content" class="Ia4" tabindex="-1">
  <div class="Ocv Kbj">
    <nav class="Ocy" aria-labelledby="breadcrumb-label">
      <h1 class="Ocw">Berlin</h1>
    </div>
    <div id="iqadtile00P" class="iqlabel iqlabel-left iqlabe
      style="display: none;" data-google-query-id="CLGzLqycqf8
    >
    <div id="iqd_mainAd"> flex
      <div id="iqd_align_Ad" style="display: none;">
        <div id="iqd_topAd">
          <div>
            <div id="iqadtile1" class="iqlabel iqlabel-left ic
              desktop-id="1" style="" data-google-query-id="CI2F
            </div>
          </div>
        </div>
      </div>
    </div>
  </div>
</main>
```

Stile filtern :hov .cls +

Element :: { Inline

```
:not(#\#):not(#
\#):not(#\#) :: {
  font-feature-settings:
    "lnum","lnum","lnum";
  font-variant-numeric: lining-nums;
}
h1:last-child,
p:last-child :: {
  margin-bottom: 0;
}
.Ocw :: {
  display: inline-block;
  margin: 0;
  margin-bottom: 0px;
}
app.eecadb57.css:1
23.35dfdfd3.css:1
```

Layout Berechnet Änderungen K

Stile filtern  Browser-Stile

- background-attachment: scroll
- background-clip: border-box
- background-color: rgb(255, 255, 255)
- background-image: none
- background-origin: padding-box
- background-position-x: 0%
- background-position-y: 0%

div#page-container.laz > main#main-content.la4 > div.Ocv.Kbj > h1.Ocw >



**Missing  
form  
labels**



 HTML

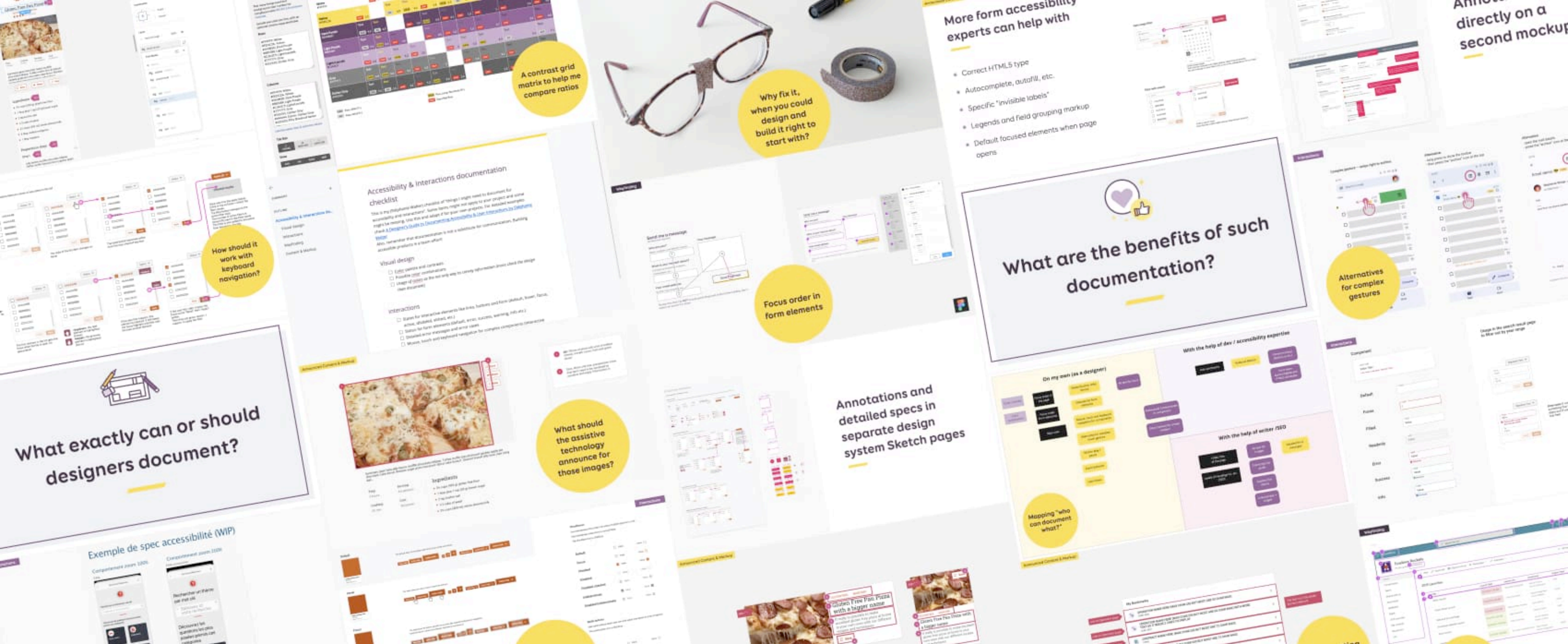
```
1 <form role="search">
2   <label class="visually-hidden" for="search">search for</label>
3   <input id="search" name="q" />
4   <button>
5     <i class="fa fa-search"></i>
6     <span class="visually-hidden">search</span>
7   </button>
8 </form>
```

\* CSS

```
19 /* taken from https://www.a11yproject.com/posts/how-to-hide-content/ */
20 .visually-hidden {
21   clip: rect(0 0 0 0);
22   clip-path: inset(50%);
23   height: 1px;
24   overflow: hidden;
25   position: absolute;
26   white-space: nowrap;
27   width: 1px;
28 }
```

 JS





A contrast grid matrix to help me compare ratios

Why fix it, when you could design and build it right to start with?

More form accessibility experts can help with

- Correct HTML5 type
- Autocomplete, autofill, etc.
- Specific "invisible labels"
- Legends and field grouping markup
- Default focused elements when page opens

Annotations directly on a second mockup

How should it work with keyboard navigation?

Accessibility & interactions documentation checklist

- This is my (Stephanie Walter's) checklist of things I might need to document for accessibility and interactions. Some items might not apply for your project and some might be missing. Use this and adapt it for your user and project. For Assisted Learning check [A Designer's Guide to Documenting Accessibility & User Interactions by Stephanie Walter](#). Remember that documentation is not a substitute for communication, building accessible products is a team effort!
- Visual design
- Edit source and colors
  - Provide color combinations
  - Layer of color as the only way to convey information does check the design (see document)
- Interactions
- Search for interactive elements like links, buttons and form elements, input, focus, active, disabled, visible, etc.
  - Status for form elements (default, error, success, warning, info, etc.)
  - Disabled error messages and error codes
  - Mouse, touch and keyboard navigation for complex components like active

Focus order in form elements

What are the benefits of such documentation?

Alternatives for complex gestures

What exactly can or should designers document?

What should the assistive technology announce for those images?

Annotations and detailed specs in separate design system Sketch pages

Mapping "who can document what?"

# A Designer's Guide to Documenting Accessibility & User Interactions

by Stéphanie Walter



Accessibility is  
a design choice

and an implementation choice as well

Leaving no-one behind<sub>is</sub>  
a design choice

and an implementation choice as well



Testing Accessibility – by Marcy Sutton

## Comprehensive Accessibility Training for Shipping High-Quality Web Applications

A self-paced workshop designed to teach you the principles and effective patterns of accessibility, from design to deployment.



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Leaving no-one behind<sub>is</sub>  
a design choice

and an implementation choice as well





Tom  
Hanks is  
Forrest  
Gump