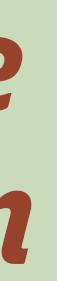
# Responsive & Accessible Future Accessibility & Multi-Screen Design

*Eric Eggert – Accessibility & Multi-Screen Design – #cos19* 

# Responsive Neb Design



### **CSS** Grids

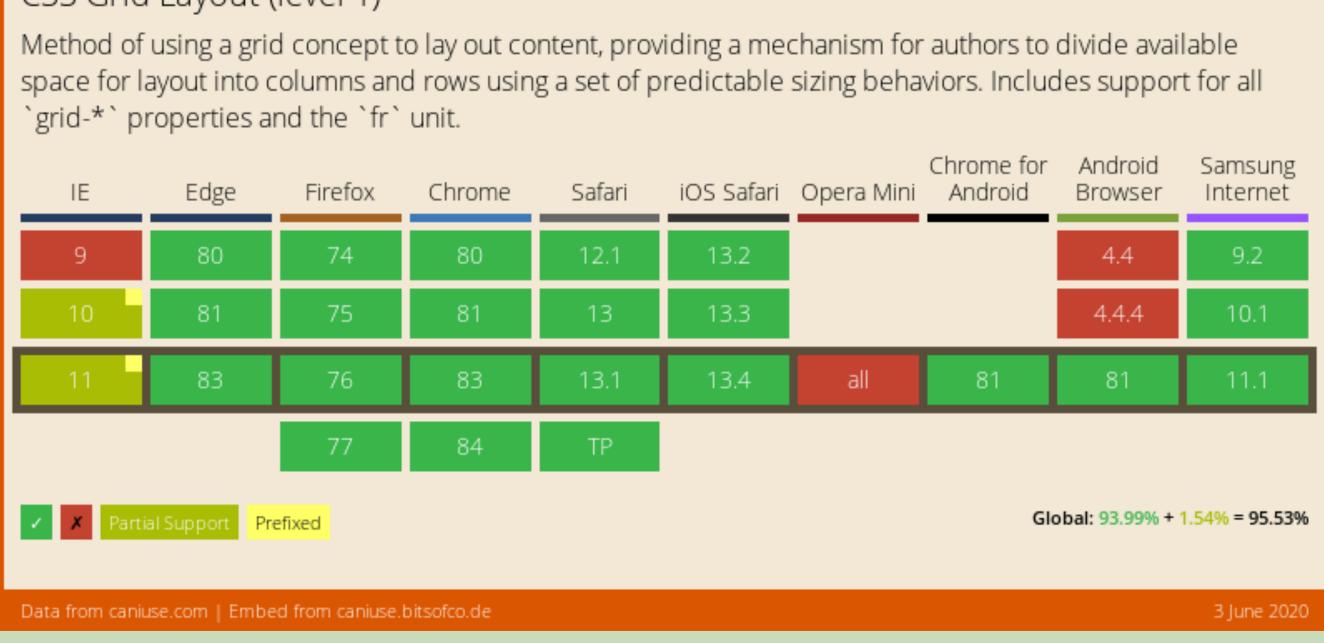
Some great examples:

- → Elliot Jay Stocks
- → Web Design Experiments by Jen Simmons
- → Jazz Poster | Jen Simmons
- → Demo | Jen Simmons Labs
- → Header, as many as will fit, footer
- $\rightarrow$  Header, as many as will fit, some tall, footer

### Great Support for Grid

### CSS Grid Layout (level 1)

`grid-\*` properties and the `fr` unit.



Can I Use: Grid Level 1

### Grid "fallbacks" and overrides by Rachel Andrew

# **Osupports** *Feature Queries*



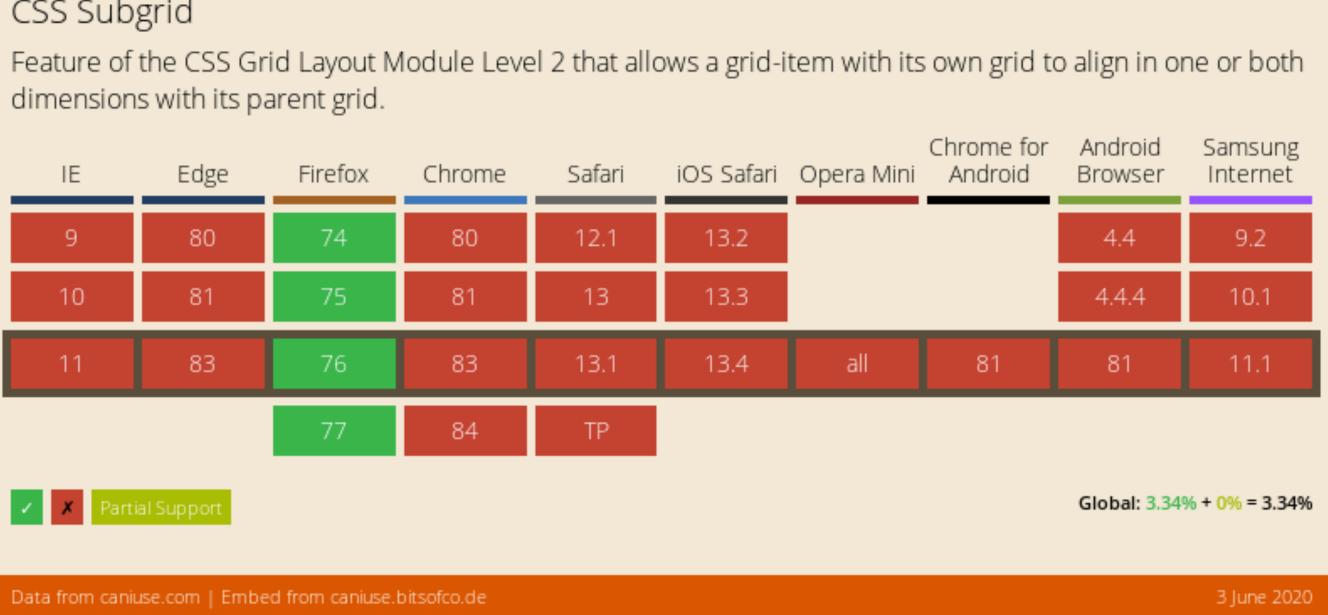
# Grids allow for...

- $\rightarrow$  reliable 2-dimensional layouts.
- > mixing fixed-width elements with flexible ones (fr unit).
- → redefining layout from the container a more straight forward responsive workflow.
- $\rightarrow$  *layering items* on the grid.



### Subgrids are not well supported

### CSS Subgrid



## How Subgrids Work by Rachel Andrew

# Progressive Web Apps (PNA)



### $\rightarrow$ Loads over HTTPS

- Juse Service Workers to provide a offline access
- Prompt users to add to home screen
- → Have mobile friendly layout
- → Uses progressive enhancement
- → Optimizes assets

## Service Worker

Basically a small proxy that handles URL requests and can act on them, for example serve a fallback page and caching assets.

Accessibility



The Accessible Smart Home

- → Amazon Echo
- → Google Home
- → HomePod
- $\rightarrow$  Nest Thermostats



# Smart Home Accessibility

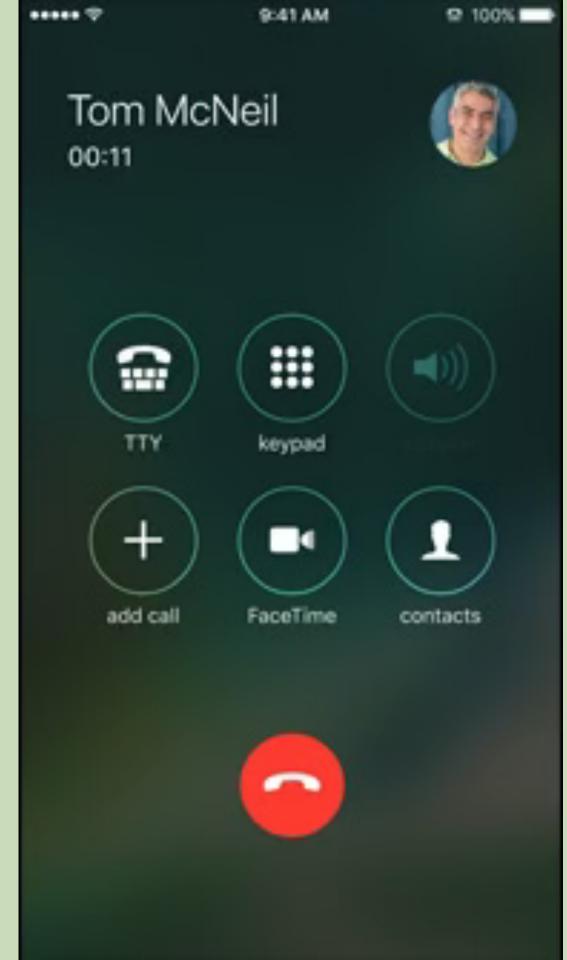
- → Voice Input
- Non-Voice Input
- Accessible configuration



# Video Calls

### Face Time, Google Duo, Skype, Zoom...







### Teletypewriter

## Augmented Reality

Color detection, shapes/faces detection



A Peek Inside the Niantic Real World Platform -

🔵 Meet

10:00 AM

-





### Source: <a>Otomemrich</a>



### Source: <a>OCastIrony</a>



Matt Moss: Control your iPhone with your eyes

## Wearables

Watches, Glasses

# Apple Match: Visual

- $\rightarrow$  VoiceOver
- → Zoom
- $\rightarrow$  Font Adjustment
- → Grayscale
- → Extra Large Watch Face









# Apple Watch: Hearing

- → Taptic Feedback
- $\rightarrow$  Scribble
- $\rightarrow$  Mono Audio



Apple Watch: Physical/Motor



### 10:09 ROLL

THURSDAY

Time to roll! Take a break and push around a little for one minute.

 $\mathbf{\uparrow}$ 

### Dismiss





# Social Media Accessibility



## Captions

### **On** YouTube, Facebook

## Automatic Captions

On YouTube, usually insufficient, but a good start



## Alternative Text

**On** <u>Twitter</u>

## Automatic alternative Text

**On** Facebook



