# Accessibility & Multi-Screen

# Design

Responsive & Accessible Future

# Disclaimer

This course is not a W3C course.

Views expressed are my own.

Dies ist kein W3C-Kurs.

Alle Ansichten sind meine Eigenen.

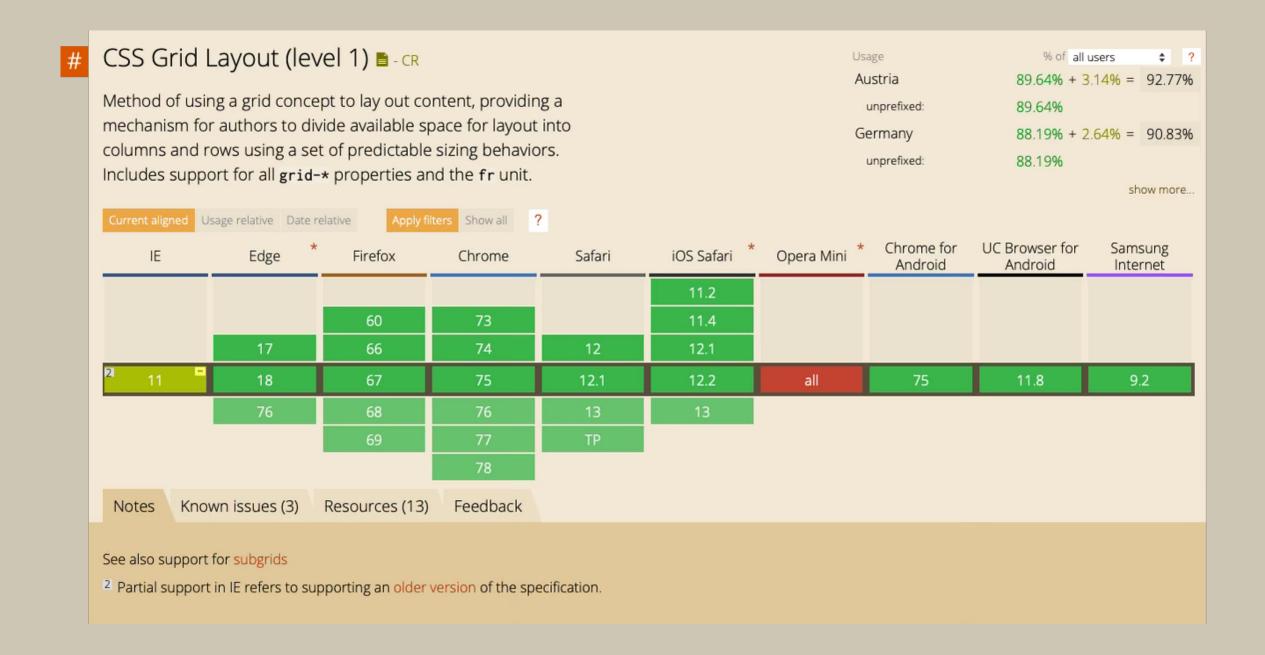
# Responsive Web Design

## CSS Grids

Some great examples:

- Web Design Experiments by Jen Simmons
- Jazz Poster | Jen Simmons
- Demo | Jen Simmons Lαbs
- Header, as many as will fit, footer
- Header, as many as will fit, some tall, footer

#### Great Support



# Grid "fallbacks" and overrides by Rachel Andrew

@supports
Feature Queries

#### Grids allow for...

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

#### Subgrids



#### How Subgrids Work

by Rachel Andrew

# Progressive Web Apps

## PWA

- Loads over HTTPS
- Use Service Workers to provide a offline access
- Prompt users to add to home screen
- Have mobile friendly layout
- Uses progressive enhancement
- Optimizes assets
- Provide enhanced ally features

## 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
- Nest Thermostats

• ...

# Smart Home Accessibility

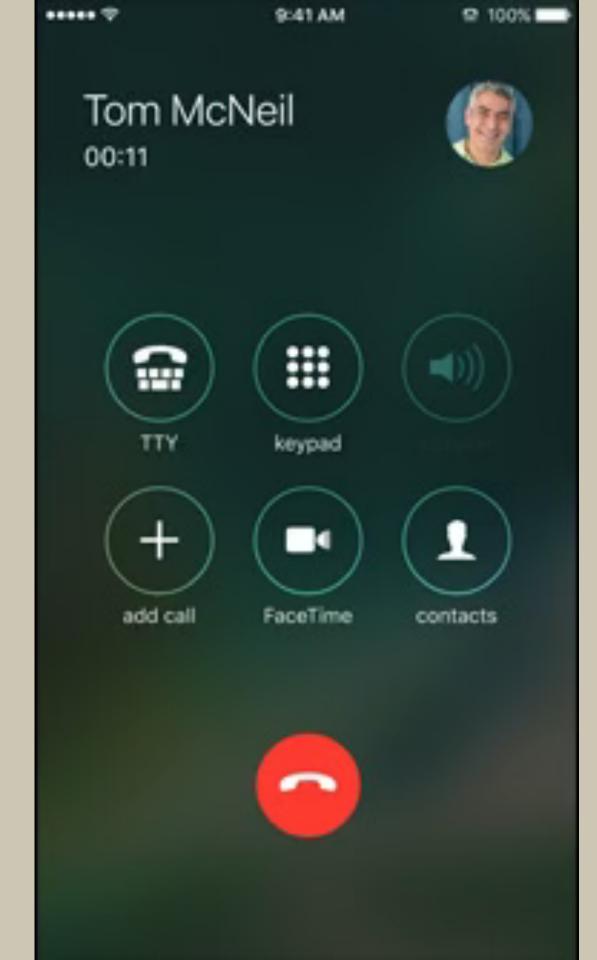
- Voice Input
- Non-Voice Input
- Accessible configuration



# Video Calls

Face Time, Google Duo, ...



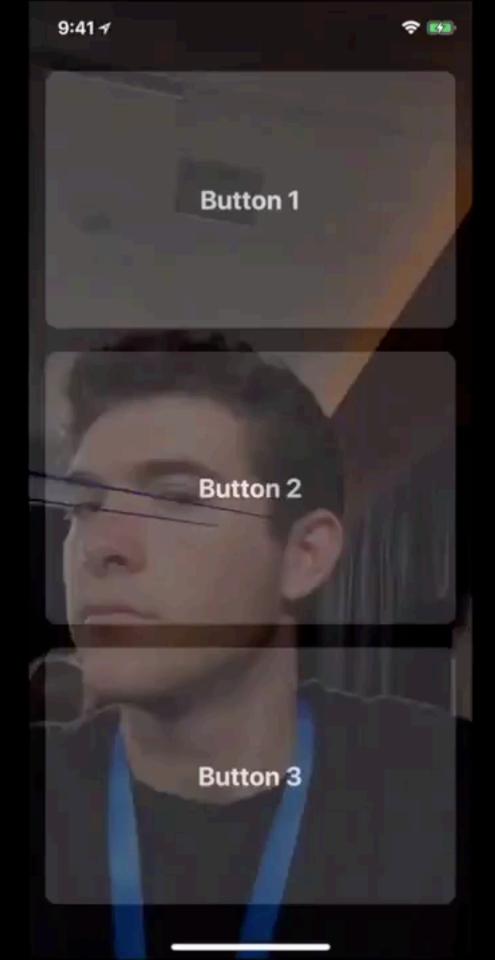


# Software TTY Teletypewriter

# Augmented Reality

Color detection, shapes/faces detection





## Wearables

Watches, Glasses

#### Apple Watch: Visual

- VoiceOver
- Zoom
- Font Adjustment
- Grayscale
- Extra Large Watch Face







#### Apple Watch: Hearing

- Taptic Feedback
- Scribble
- Mono Audio

Apple Watch: Physical/Motor







# Social Media Accessibility

# Captions

On YouTube, Facebook

# Automatic Captions

On <u>YouTube</u>, usually insufficient, but a good start

## Alternative Text

On <u>Twitter</u>

### Automatic alternative Text

On Facebook



# The End.