Mobility and Responsive Design with CSS and LESS

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sessions my

speakers

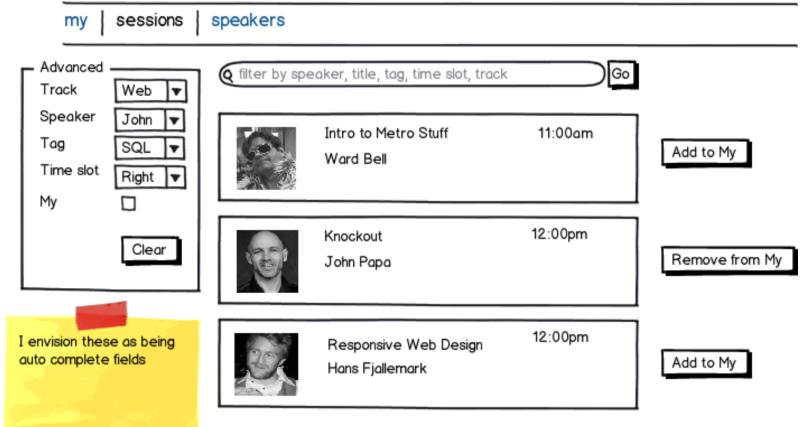
Right Now Saturday May 1 Sunday May 2 Monday May 3 Tuesday May 4



We want 2 states when not focused. 1st - Add to My 2nd - Added to My (with a checkmark). Then have a hover state for "Added" which allows user to

In the My View, session that are removed will go to a visible state that looks disabled. Then on refresh they go away.







my

sessions

speakers

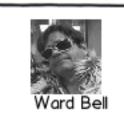
John Papa

Ward Bell Scott Guthrie Dan Wahlin Hans Fjallemark













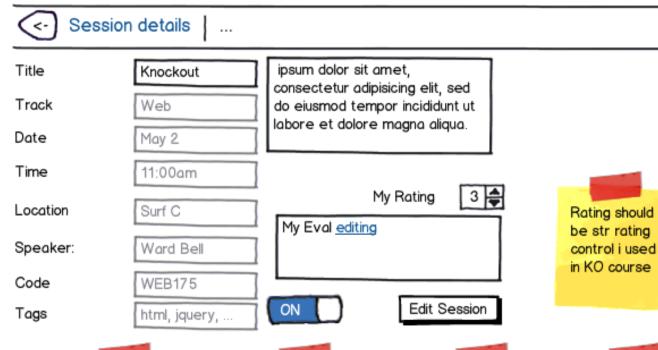
Go

John Papa



Dr Doofenshmirtz

CodeCamper



Code Tags

Do we want

field?

date/time fields or a time slot

> How do we allow editing of tags?

Mine toggle

If its my session (I am the speaker) I get the Edit Add a conflict

Mobility and Responsive Design Agenda

- Where's the CSS?
 - Debugging Tools

- LESS
 - Design Tools

- Media Queries
 - Testing tools



LESS

http://lesscss.org

Avoid Repeating Yourself

Easier Maintenance

- Variables
- Mixins
- Nested Rules
- Functions and Operations
- LESS in Depth
 - Shawn Wildermuth's Pluralsight Course "A Better CSS: LESS and SASS"
 - http://jpapa.me/swless

Variables

LESS

```
@accent-color: #119EDA;
@text-color: #FFFFFF;
.accent(){
    background: @accent-color;
    color: @text-color;
    text-align: center;
}
button {
    border: 0;
    background-color: @accent-color;
}
```

```
.accent{
    background: #119EDA;
    color: #FFFFFF;
    text-align: center;
}
button {
    border: 0;
    background-color: #119EDA;
}
```

Mixins

LESS

```
.image-profile-size(@size: 90px){
    height: @size;
}
img {
    .image-profile-size;
}
img.smallImg {
    .image-profile-size(55px);
}
```

```
img {
    height: 90px;
}
img.smallImg {
    height: 55px;
}
```

Nested Rules

LESS

```
@accent-color: #119EDA;
button {
    border: 0;
    background-color: @accent-color;
   &:active, &:focus {
        position: relative;
        top: 1px;
   &:hover {opacity: 0.6;}
   &:disabled {
        opacity: 0.6;
        position: relative;
        top: 0;
```

```
button {
    border: 0;
    background-color: #119EDA;
button:active,
button:focus {
    position: relative;
    top: 1px;
button:hover { opacity: 0.6; }
button:disabled {
    opacity: 0.6;
    position: relative;
    top: 0;
```

Functions and Operations

LESS.

```
@base-accent-top-width: 200px;
@base-accent-top-height: 30px;
.accent-left-base(@sizeMultiplier: 1) {
    width: @base-accent-top-height *
            @sizeMultiplier;
    height: @base-accent-top-width *
            @sizeMultiplier;
}
.accent-left { .accent-left-base; }
@media only screen and (max-width: 900px) {
    .accent-left {
        .accent-left-base(.8);
```

```
.accent-left {
    width: 200px;
    height: 30px;
}
@media only screen and (max-width: 900px)
    .accent-left {
        width: 160px;
        height: 24px;
```

Responsive Design and Media Queries

Responsive Design in a web app

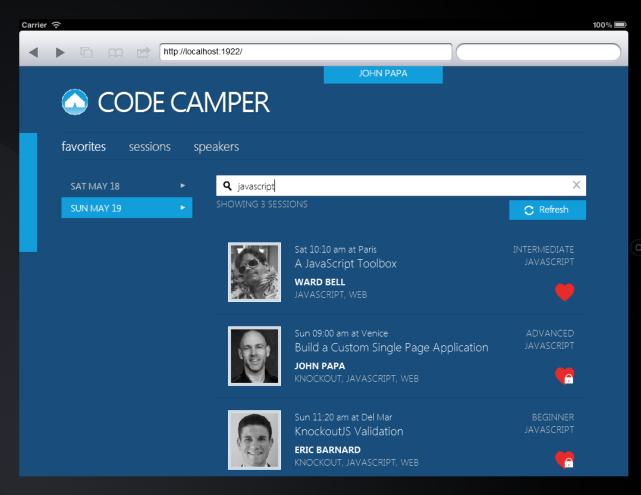
Ability for a web app to adapt to its environment

Media Queries

- CSS feature that define how styles should adapt
- Based on media type and dimensions

Mobility and Devices





Testing For Multiple Devices

- Electric Mobile Studio
 - http://jpapa.me/electricplum



Resources

- Balsamiq Mocking
 - http://www.balsamiq.com
- LESS
 - http://lesscss.org
- Electric Mobile Studio
 - http://jpapa.me/electricplum
- Web Essentials 2012
 - http://jpapa.me/webess2012



