

SYNERGY 2015

SEATTLE, WA, USA

Responsive WebApp Design

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Order Entry...: <http://52.4.123.133/synergy/>

Contact Management: <http://52.4.123.133/cmsynergy/>

Open these links on your smart phone!!

Responsive Web Design

- What is Responsive Web Design?
 - Design approach
 - Multiple techniques
 - Not new
 - 2013 – mashable.com

<http://thisismadebyhand.com/>

<http://www.planetary.org/>



Design Considerations

- ~~Physical keyboard, mouse~~
- Smaller screen
- On-screen keyboard
- Touch actions
- No hover



Responsive Layout Adjustments

- Navigation
- Item Repositioning
- Item Resizing
- Items Disappear

Application Cases

- Entire Web Application
 - Desktop, Tablet and Phone
- Discrete Additional Modules
 - Customer Facing, Web Shop, Out of Office

Media Queries



960px



1136px



Responsive Breakpoints

Important Screen Sizes

- iPhone 3-4 portrait (320 x 480), landscape (480 x 320)
- iPhone 5 portrait (320 x 568), landscape (568 x 320)
- iPhone 6 portrait (375 x 667), landscape (667 x 375)
- iPhone 6+ portrait (414 x 736), landscape (736 x 414)
- iPad mini portrait (768 x 1024), landscape (1024 x 768)
- iPad 1-4 portrait (768 x 1024), landscape (1024 x 768)
- Notebook 1 (1280 x 950)
- Notebook 2 (1440 x 900)

Responsive Breakpoints 2

More Important Screen Sizes

- Samsung Galaxy Note (400 x 640), landscape (640 x 400)
- Samsung Galaxy Note II, 3 (360 x 640), landscape (640 x 360)
- Samsung Galaxy S, SII, W (320 x 533), landscape (533 x 320)
- Samsung Galaxy Tab (1024 x 600), landscape (600 x 1024)
- Samsung Galaxy Tab 7.7+ (800 x 1280), landscape (1280 x 800)

DataFlex Responsive Breakpoints

- Desktop
- Tablet
 - Tablet Landscape
 - Tablet Portrait
- Mobile
 - Mobile Landscape
 - Mobile Portrait



WebSetResponsive

WebSetResponsive {property} {mode} to {value}

Web Property

piColumnCount, piResponsive Mode

rmDesktop

rmMobile, rmTablet, rmDesktop

rmTablet

rmMobile

CSS “.df-Mode” Classes

- Responsive behaviour built into Df_Flat_Touch
 - White space around views
 - Header tab style
 - Label Caption

Conclusions

- Use `piMaxWidth` (only) to set your view width
- Organize your controls into groups
- 80-20 rule - Don't get too fancy!
- Utilize as few breakpoints as possible

- Test using Google device simulator
- Final testing on "real" devices!