UX NOTES.pl

RWD Basic Cheat Sheet

GLOSSARY

Responsive Web Design (RWD) - is an approach to web design aimed at crafting sites to provide an optimal viewing and interaction experience—easy reading and navigation with a minimum of resizing, panning, and scrolling—across a wide range of devices (from desktop computer monitors to mobile phones).

Adaptive Design - is different from Responsive Designin that there isn't one layout that always changes. Instead, there are several distinct layouts for multiple screen sizes, and the layout used depends on the screen size used. For example, there could be a specific layout for mobile phones, tablets, and desktop computers – each of which are made in advance.

Progressive Enhancement - starting with a baseline of usable functionality, then increasing the richness of the user experience step by step by testing for support for enhancements before applying them. Progressive enhancement starts from a very basic, working example and allows for constant extension for future.

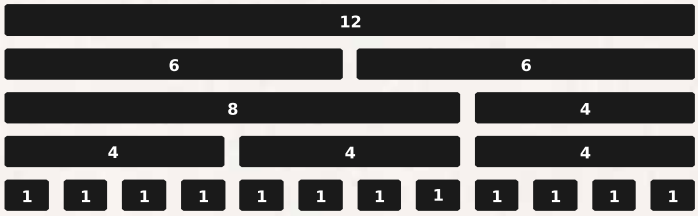
Graceful Degradation - providing an alternative version of your functionality or making the user aware of shortcomings of a product as a safety measure to ensure that the product is usable. Graceful degradation starts from the status quo of complexity and tries to fix for the lesser experience.

Mobile First - a development of progressive enhancement, is a design philosophy that values focused, mobile-ready websites over complex, demanding ones.

GRID

Grid - in RWD this ususally means that page is divided into columns. A responsive grid-view often has 12 columns, and has a total width of 100%, and will shrink and expand as you resize the browser.

12 column grid example↓



Media queries -in RWD, a media query is a CSS declaration that is used as a parameter for when to call other style declarations based.

Breakpoints - in RWD are browser widths that have a media query declaration to change the layout once the browser is within the declared range. This means that for certain width (breakpoint) e.g 768px some part of the content can be hidden, revealed or have different styling (smaller font size etc.)

DISPLAYS

DPI - (dots per inch) refers to the number of printed dots contained within one inch of an image printed by a printer.

PPI - (pixels per inch) refers to the number of pixels contained within one inch of an image displayed on a computer monitor.

Viewport - The viewport is the user's visible area of a web page.

Resolution - is the number of distinct pixels in each dimension that can be displayed. It is usually quoted as width×height, with the units in pixels: for example, "1920 × 1280" means the width is 1920 pixels and the height is 1280 pixels.

Pixel density - Refers to the concentration of pixels on a particular display, measured in pixels per inch (ppi). Pixel density is calculated by dividing the diagonal pixel resolution of a display by its diagonal size.

FONTS & LENGTH UNITS

Webfonts - are a specially prepared and optimized fonts to be used on the websites. They allow designers to use fonts not installed on user's computer. Usually applied with @font-face css declaration or via javascript.

Iconfonts - are the special fonts that contains symbols instead of typical letters or numbers. All the css text styles can be applied.

↓Popular webfont services

Name	USAGE	TYPE	NR OF WEBFONTS
Google Web Fonts	Free	Hosted	~ 700
Fonts.com	Paid/Free	Hosted	~ 40 000
Typekit	Paid/Free	Hosted	~ 1260
Edge Web Fonts	Free	Hosted	~ 500
Font Squirrel	Free/Paid	Self-hosted	~ 900

↓Length Units

ABSOLUTE		RELATIVE		VIEWPORT RELATIVE	
cm	centimeters	**ex**	x-height - equal to the size of the lowercase 'x' in the font being used	**vh**	vieport height
mm	millimeters	**ch**	character - related to the '0' character)	**vw**	viewport width
in	inches	**em**	relative to the parent	**vmin**	viewport minimum
pc	picas	**rem**	relative to the root eg. html element in HTML documents	**vmax**	vieport maximum
pt	points				
px	pixels				

BOOTSTRAP 3

DEVICE SIZE		BREAKPOINT	CSS CLASS PREFIX
Extra small devices	**Phones**	(<768px)	.col-xs-
Small devices	**Tablets**	(≥768px)	.col-sm-
Medium devices	**Desktops**	(≥992px)	.col-md-
Large devices	**Desktops**	(≥1200px)	.col-lg-

Gutter - 30px (15px of empty space on each side of a column)

POPULAR DEVICES SHORT GUIDE

MOBILE

	Device	Screen	Width x Height	Density	OS
APPLE	iPhone 4	3.5"	320x480	2.0 (326ppi)	iOS
	iPhone SE	4.0"	640x1136	2.0 (326ppi)	iOS
	iPhone 6	4.7"	750x1334	2.0 (326ppi)	iOS
	iPhone 7	4.7"	750x1334	2.0 (326ppi)	iOS
SAMSUNG	Galaxy S5	5.1"	1080x1920	3.0 (432ppi)	Android
	Galaxy S6	5.1"	1440x2560	4.0 (577ppi)	Android
	Galaxy S7	5.1"	1440x2560	4.0 (577ppi)	Android
	Galaxy Note 4	5.1"	1440x2560	4.0 (515ppi)	Android
GOOGLE	Nexus 4	4.7"	768x1280	2.0 (316ppi)	Android
	Nexus 5	5.0"	1080x1920	3.0 (441ppi)	Android
	Nexus 6	6.0"	1440x2560	3.5 (490ppi)	Android
OTHER	Sony Experia Z3	5.2"	1080x1920	3.0 (424ppi)	Android
	LG G3	5.5"	1440x2560	3.0 (534ppi)	Android
	HTC One M9	5.0"	1080x1920	3.0 (441ppi)	Android
	Motorola Moto X	5.2"	1080x1920	3.0 (424ppi)	Android

TABLET

	Device	Screen	Width x Height	Density	OS
APPLE	iPad mini 4	7.9"	1536x2048	2.0 (326ppi)	iOS
	iPad 4	9.7"	1536x2048	1.5 (264ppi)	iOS
	iPad Air 2	9.7"	1536x2048	1.5 (264ppi)	iOS
	iPad Pro	12.9"	2048x2732	1.5 (264ppi)	iOS
SAMSUNG	Galaxy Tab 4	7.0"	800x1280	1.0 (216ppi)	Android
	Galaxy Tab S2	9.7"	1536x2048	1.5 (264ppi)	Android
	Galaxy TabPro S	12.2"	1600x2560	1.5 (247ppi)	Android
	Galaxy View	18.4"	1080x1920	0.75 (120ppi)	Android
GOOGLE	Nexus 7	7.0"	1200x1920	2.0 (323ppi)	Android
	Nexus 9	8.9"	1536x2048	1.5 (281ppi)	Android
	Pixel C	10.2"	1800x2560	2.0 (308ppi)	Android
OTHER	Sony Experia Z4	10.1"	1800x2560	2.0 (310ppi)	Android
	MS Surface Pro 4	12.3"	1824x2736	1.5 (267ppi)	Android
	Lenovo Yoga Tab 3	10.1"	1600x2560	2.0 (299ppi)	Android
	Amazon Fire HD 1	10.1"	800x1280	1.0 (149ppi)	Android

LAPTOP/DESKTOP

	Device	Screen	Width x Height	Density
LAPTOP	MacBook	12.0"	2304x1440	2.0 (226ppi)
	MacBook Air	13.3"	1440x900	1.0 (128ppi)
	MacBook Pro (Retina)	13.3"	2560x1600	2.0 (227ppi)
	Dell XPS 13	13.3"	3200x1800	1.0 (276ppi)
	Asus ZenBook UX305	13.3"	1920x1080	1.0 (165ppi)
	HP EliteBook 755 G2	15.6"	1920x1080	1.0 (141ppi)
	Acer Aspire V15 Nitro	15.6"	3840x2160	1.5 (282ppi)
	Lenovo ThinkPad X1	14.0"	1600x900	1.0 (131ppi)
DESKTOP (All in One)	iMac 21.5-inch	21.5"	1920x1080	1.0 (102ppi)
	iMac 21.5-inch (4K Retina)	21.5"	4096x2304	1.0 (218ppi)
	iMac 27-inch (5K Retina)	27.0"	5120x2880	1.0 (218ppi)
	Lenovo Horizon 2e	21.5"	1920x1080	1.0 (102ppi)
	Acer Aspire Z	23.0"	1920x1080	1.0 (96ppi)
	Dell OptiPlex 9030 Touch	23.0"	1920x1080	1.0 (96ppi)
	HP Envy Curved 34	34.0"	3440x1440	1.0 (110ppi)

Sources:
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