

RESPONSIVE WEB DESIGN (RWD)

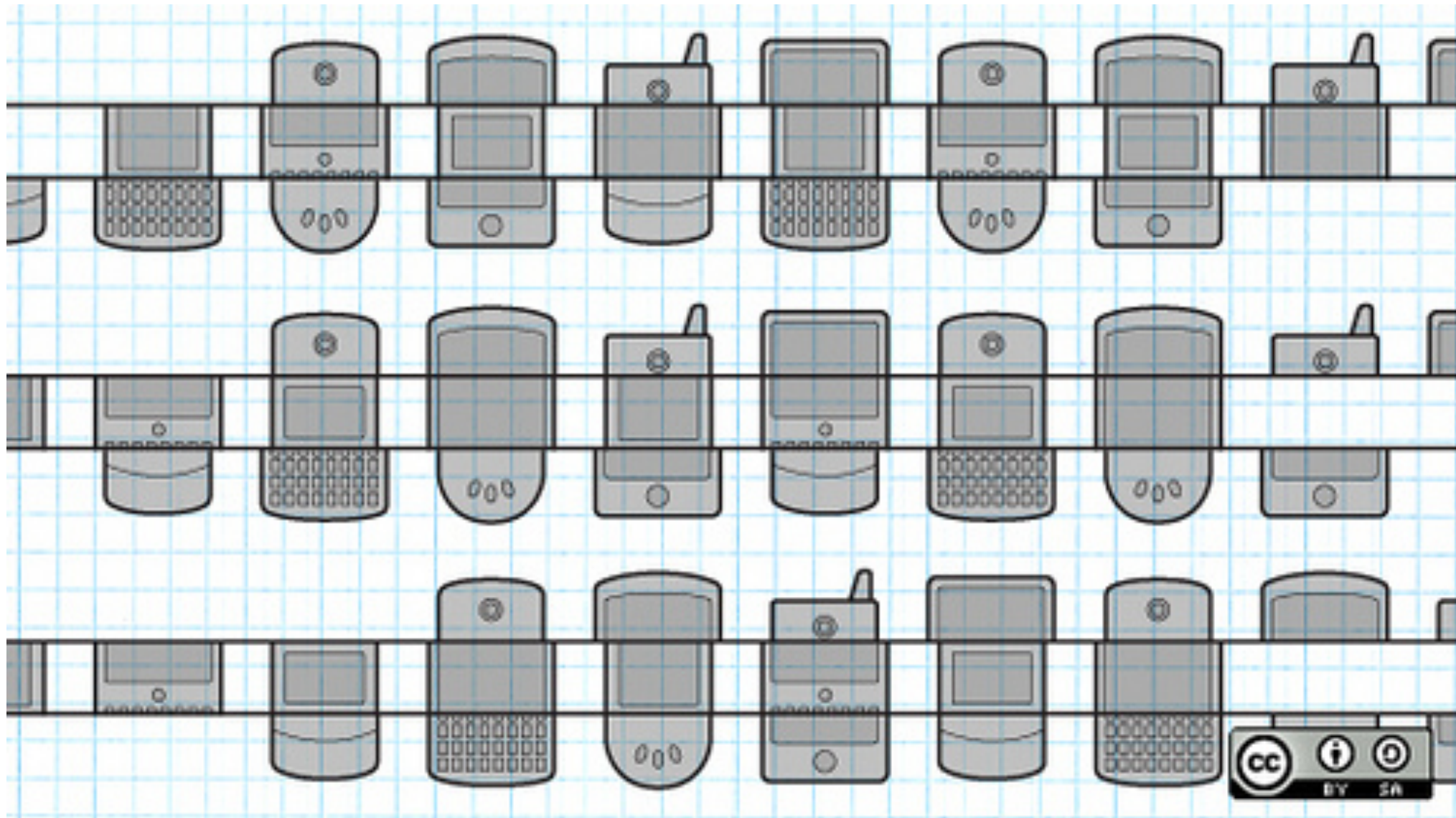


Image Source:

<http://mobile.smashingmagazine.com/2012/10/24/beyond-common-media-query-breakpoints/>

CONTENT OVER AESTHETICS

Design is based on creating hierarchy and controlling what a viewer sees and when, so you should design a website based on **content hierarchy**.

This hierarchy will affect how much and what content you display within different viewports (screen sizes and types).

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YALE CENTER FOR BRITISH ART

FRAME BY FRAME

A royal 'Zebra' by George Stubbs

The eighteenth century British artist painted Queen Charlotte's zebra, which grazed on the grounds of Buckingham Palace.

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Latest news

High court hears gay marriage case



A1

In oral arguments in the first of two historic gay marriage cases, justices engaged in a spirited debate over the purpose of marriage.

-  Photos: Outside the court
- SupremeCourt.gov: Audio and transcript of the oral arguments
- Gay marriage by the numbers
- Tom Keane: Not a wedge issue

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With BioShock Infinite, Quincy's Irrational Games hopes for a hit

Five years in the making, the hotly anticipated title enters a video game market under stress.


Latest news

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AP

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article header h1

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<http://www.initializr.com/try>

DEVICE SIZES

Standard browser: 1024 x 768

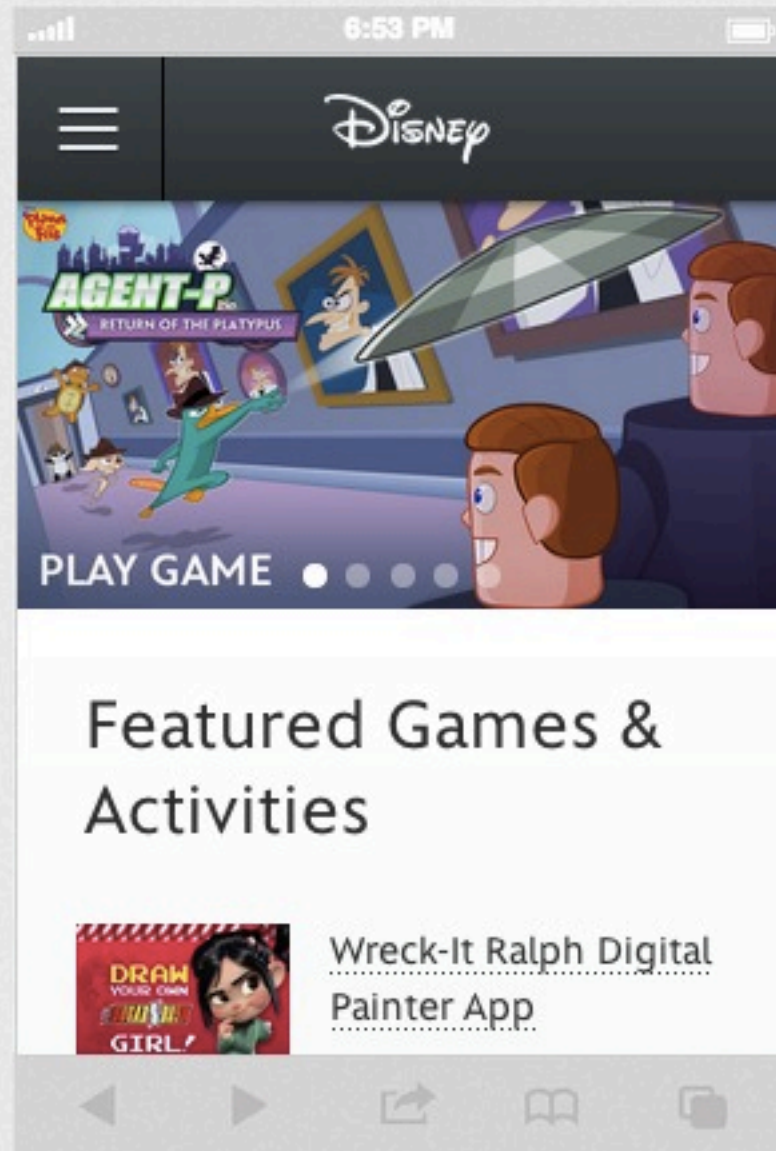
iPad portrait: 768 x 1024

iPad retina portrait: 1536 x 2048

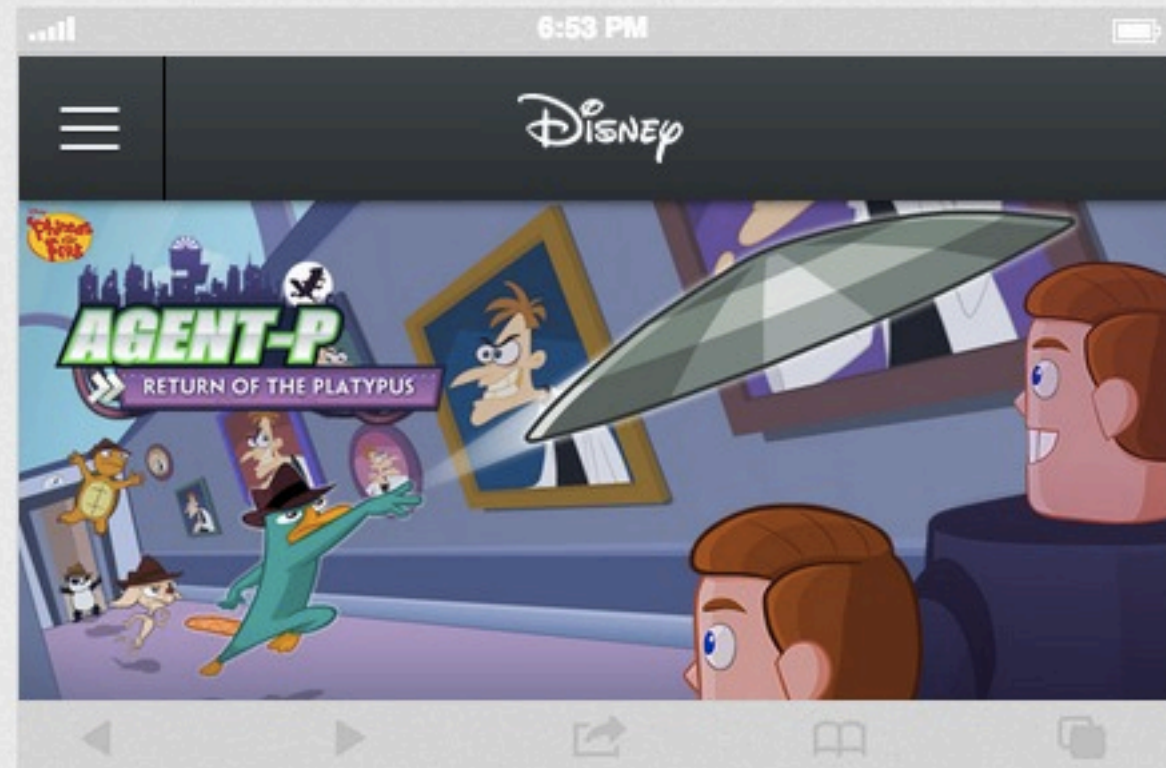
iPhone 5 retina portrait: 640 x 1136

Samsung Galaxy portrait: 380 x 685

Samsung Galaxy landscape: 685 x 380

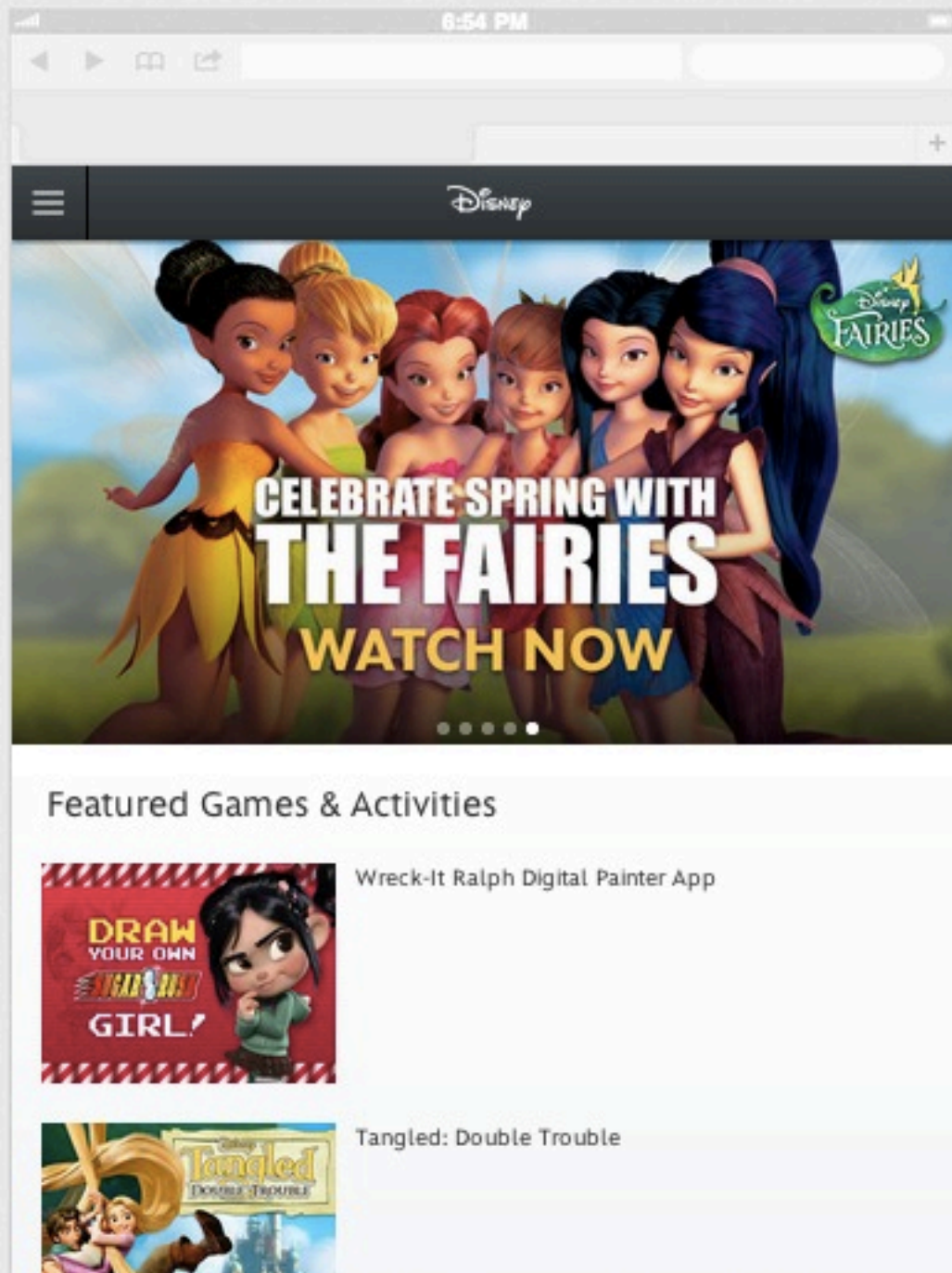


iPhone 3+4 portrait 320 x 480



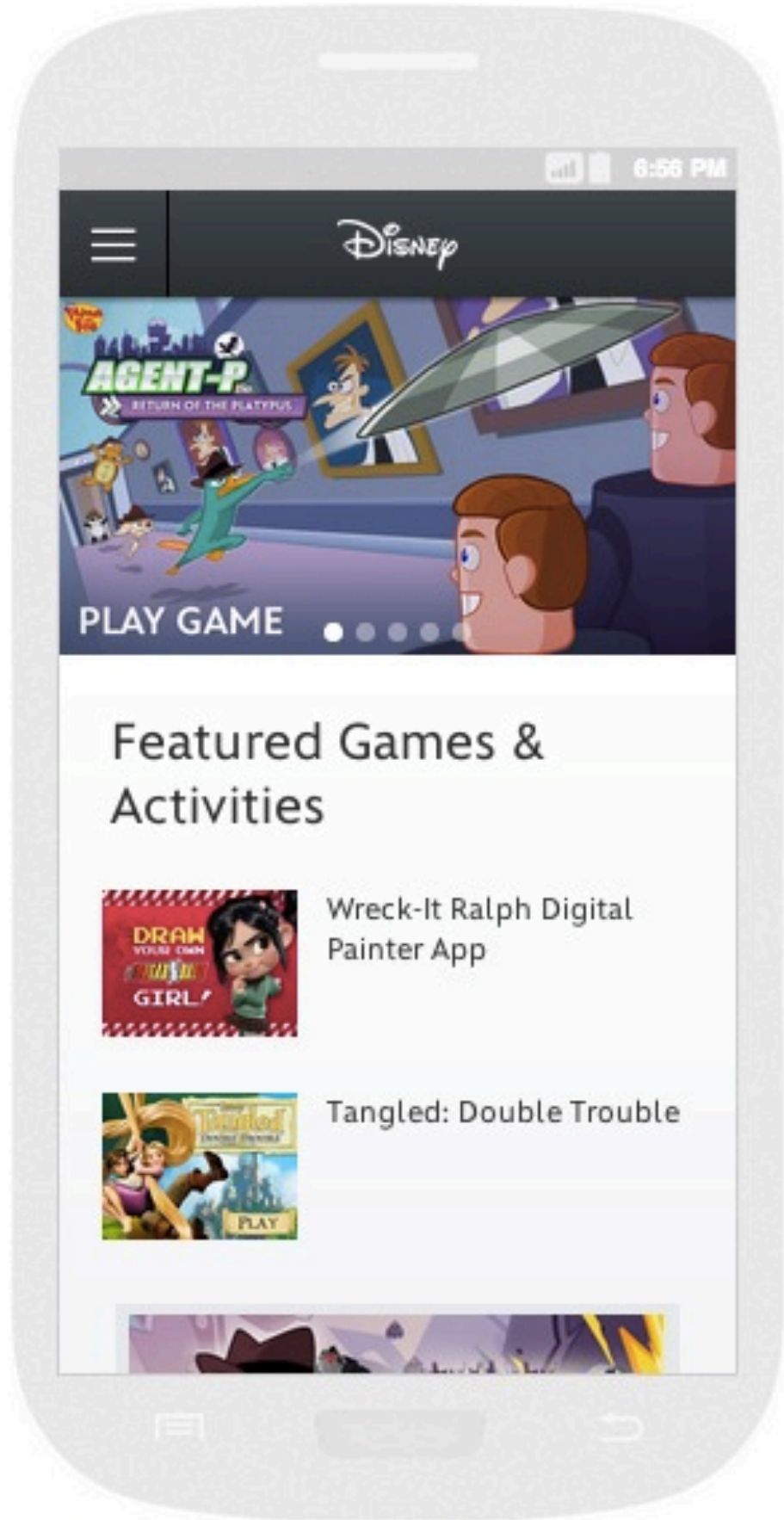
iPhone 3+4 landscape 480 x 320

<http://responsinator.com>

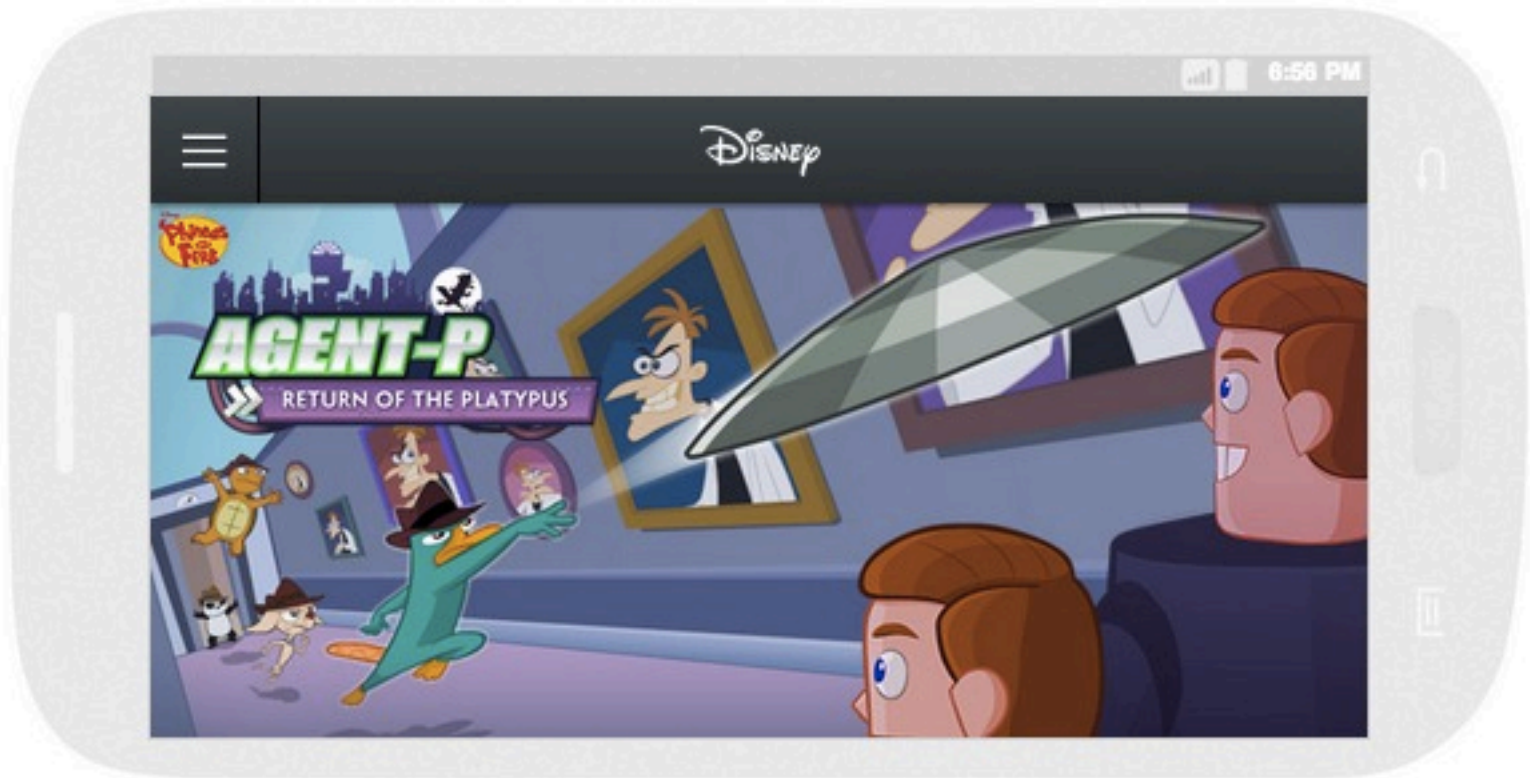


iPad portrait 768 x 1024

<http://responsinator.com>



Android (Samsung Galaxy) portrait 380 by 685 (equivalent desktop resolution)



Android (Samsung Galaxy) landscape 685 by 380 (equivalent desktop resolution)

<http://responsinator.com>

RESPONSIVE WEBSITES

<http://bostonglobe.com/>

<http://disney.com/>

<http://microsoft.com/>

<http://www.shakeshack.com/>

<http://html.adobe.com/>

<http://css-tricks.com/>

<http://www.time.com/>

<http://tattly.com/>

.... and many more

EXAMPLE TIME

<http://cvj341.westhostsite.com/examples/responsive/3column/>

Files also available on Github under Tran Class Files > Class Demo > 18_responsive.

Don't forget, in your <head> there should be the following line of code if you want your website to respond to the size of your device/viewport:

```
<meta name="viewport" content="width=device-width, initial-scale=1"/>
```


MEDIA QUERIES

Media queries let the presentation of content be **tailored to a specific range of output devices** without having to change the content itself.

A media query consists of a media type and at least one expression that limits the style sheets' scope by using media features, such as width, height, and color.

```
@media (media types) {  
    /* media-specific rules */  
}
```

Unless you use the `not` or `only` operators, the media type is optional and the `all` type will be implied.

https://developer.mozilla.org/en-US/docs/CSS/Media_queries

MEDIA TYPES

all

Suitable for all devices.

braille

Intended for braille tactile feedback devices.

embossed

Intended for paged braille printers.

handheld

Intended for handheld devices (typically small screen, limited bandwidth).

print

Intended for paged material and for documents viewed on screen in print preview mode. Please consult the section on [paged media](#), and the [media section of the Getting Started tutorial](#) for information about formatting issues that are specific to paged media.

projection

Intended for projected presentations, for example projectors. Please consult the section on paged media for information about formatting issues that are specific to paged media.

screen

Intended primarily for color computer screens.

speech

Intended for speech synthesizers. Note: CSS2 had a similar media type called 'aural' for this purpose. See the appendix on aural style sheets for details.

tty

Intended for media using a fixed-pitch character grid (such as teletypes, terminals, or portable devices with limited display capabilities). Authors should not use pixel units with the "tty" media type.

tv

Intended for television-type devices (low resolution, color, limited-scrollability screens, sound available).

<https://developer.mozilla.org/en-US/docs/CSS/@media>

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USING "AND"

The result of the query is true if the media type specified in the media query matches the type of device the document is being displayed on and all expressions in the media query are true.

When a media query is true, the corresponding style sheet or style rules are applied, following the normal cascading rules.

Examples:

```
@media (min-width: 700px) and (orientation: landscape)
{ ... }
```

```
@media handheld and (min-width: 700px) and (orientation: landscape)
{ ... }
```

COMMA-SEPARATED = OR

Comma-separated lists behave like the logical operator **or** when used in media queries.

Example:

```
@media (min-width: 700px), handheld and (orientation: landscape) { ... }
```

Is the same as these two together - where { ... } is the same.

```
@media (min-width: 700px) { ... }  
@media handheld and (orientation: landscape) { ... }
```

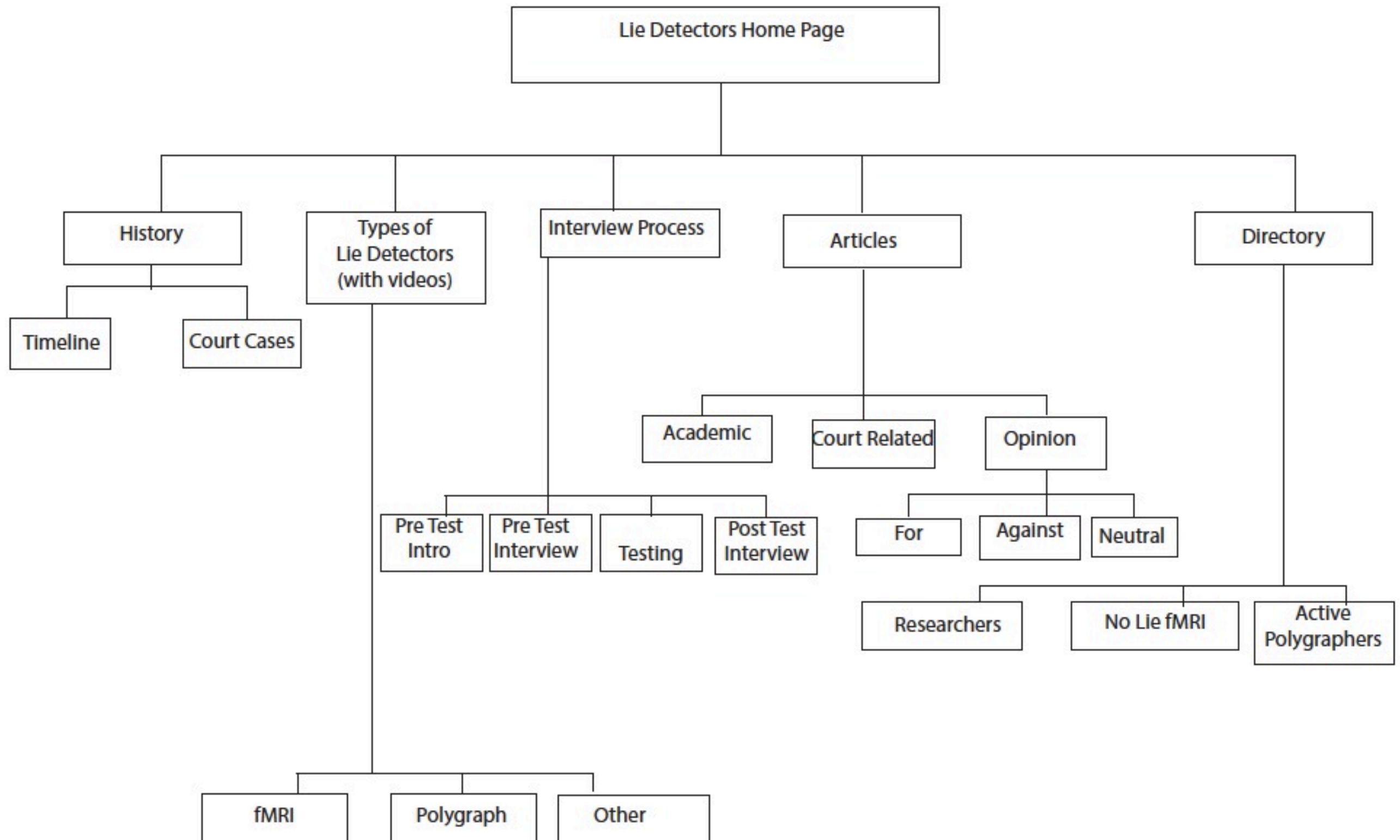

FINAL PROJECT

Your final website must display reasonably on a standard browser (~978px) **AND** one other viewport

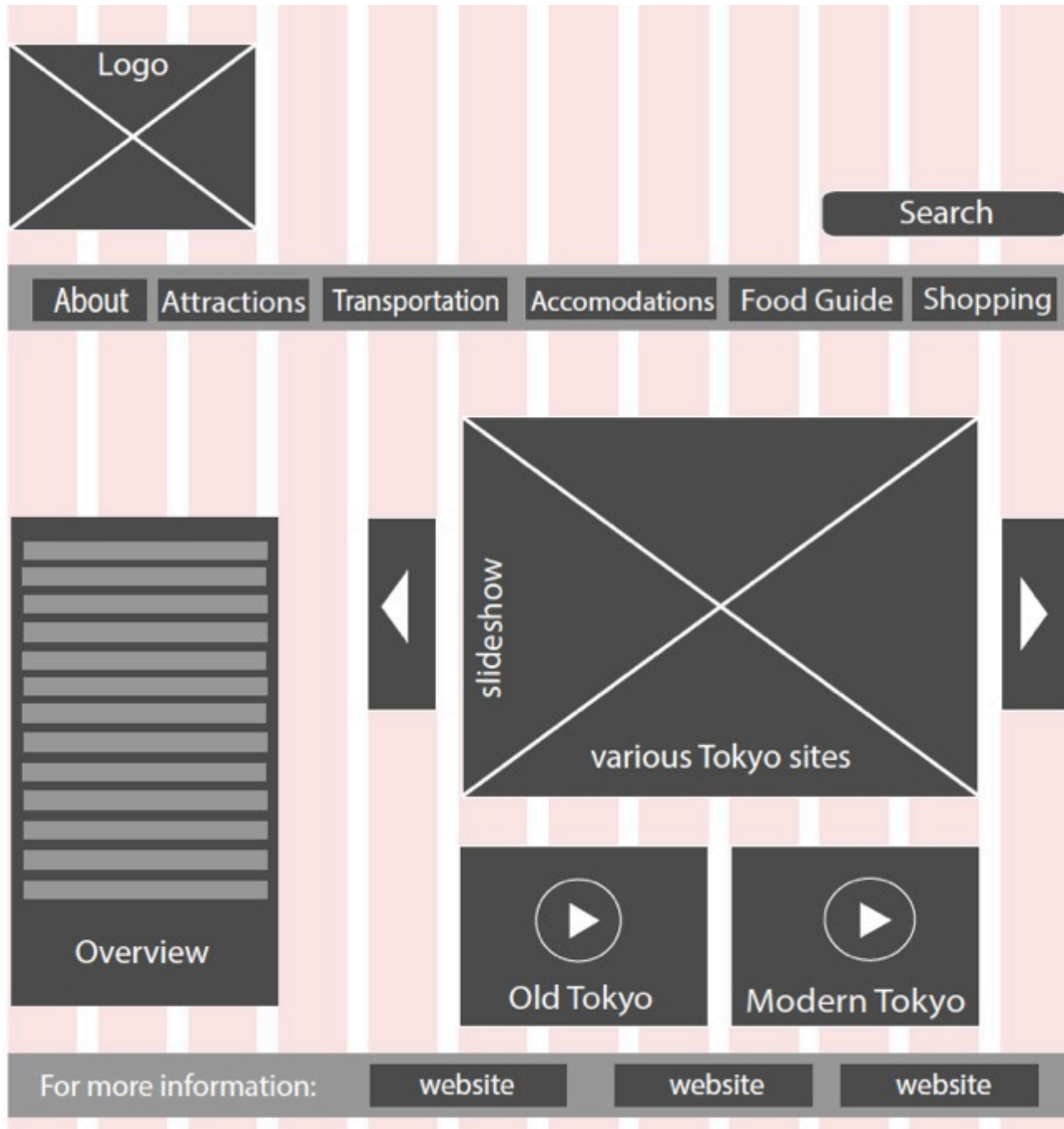
For example:

- standard browser and iPhone portrait
- standard browser and iPhone landscape
- standard browser and iPad portrait
- standard browser and iPhone landscape
- standard browser and iPhone portrait
- standard browser and [min-size is 300px and max-size is 500px]
- standard browser and [min-size is 768px and max-size is 1100px and landscape orientation]

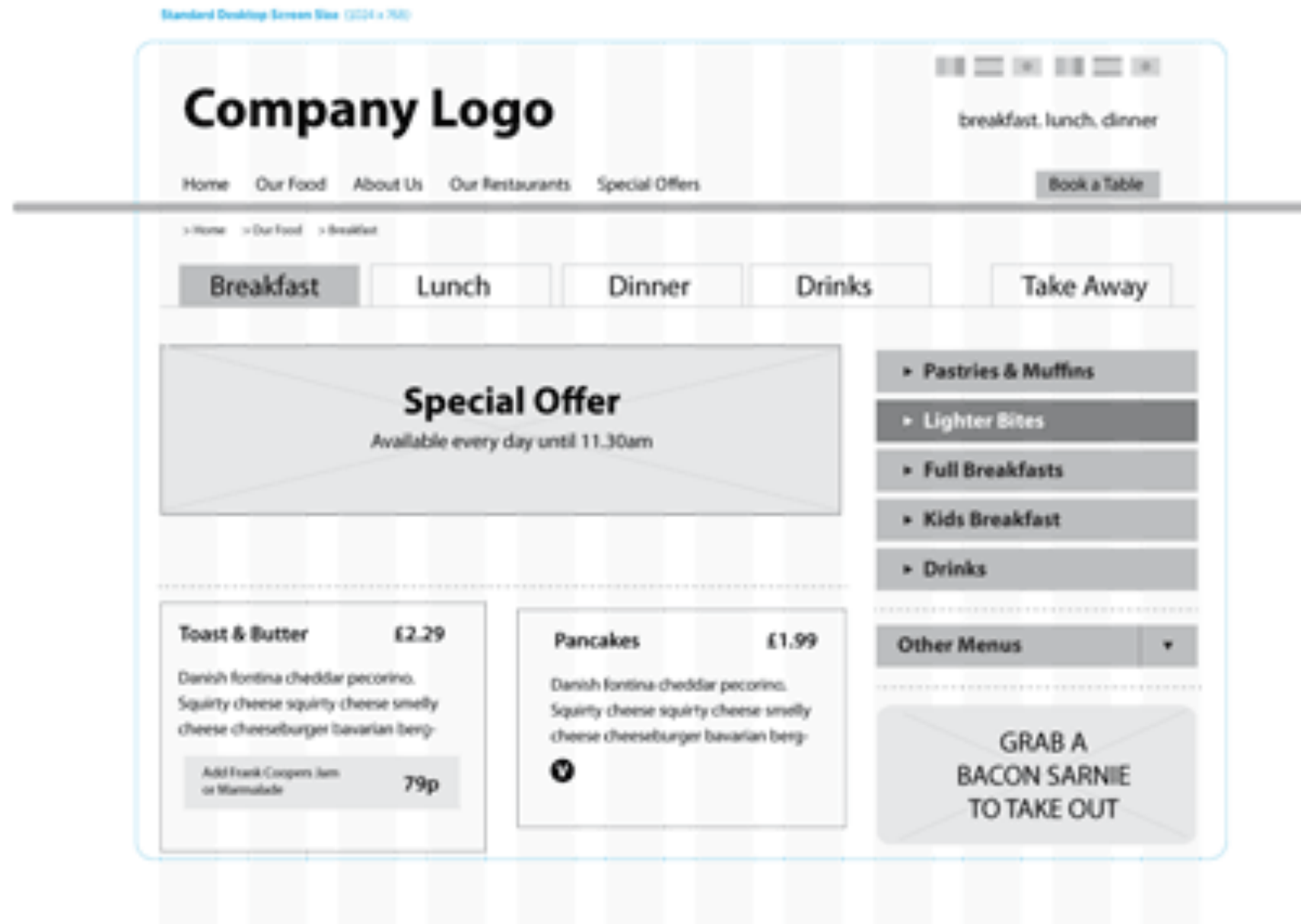
Sample Sitemap



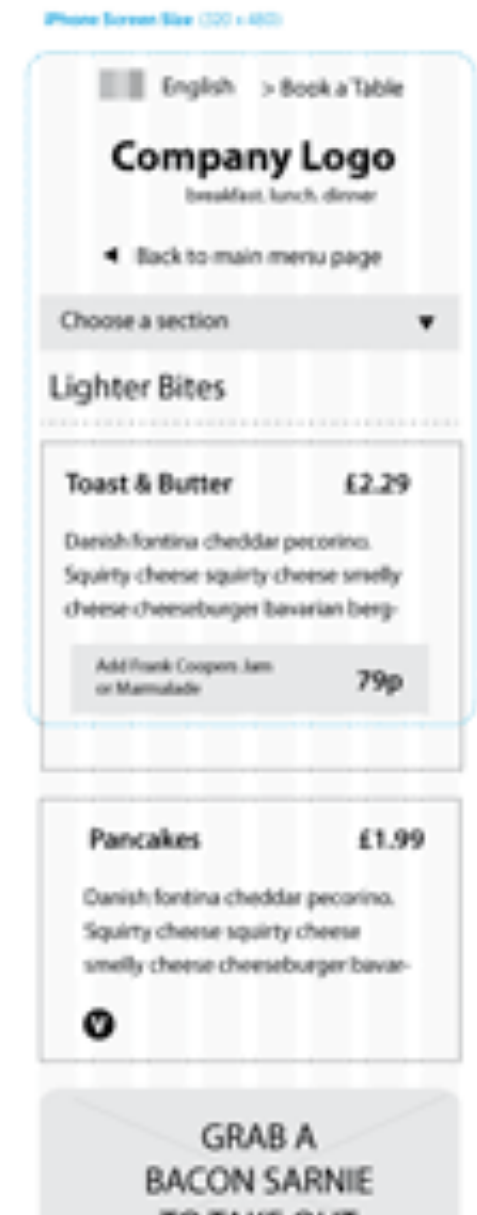
Sample Wireframe



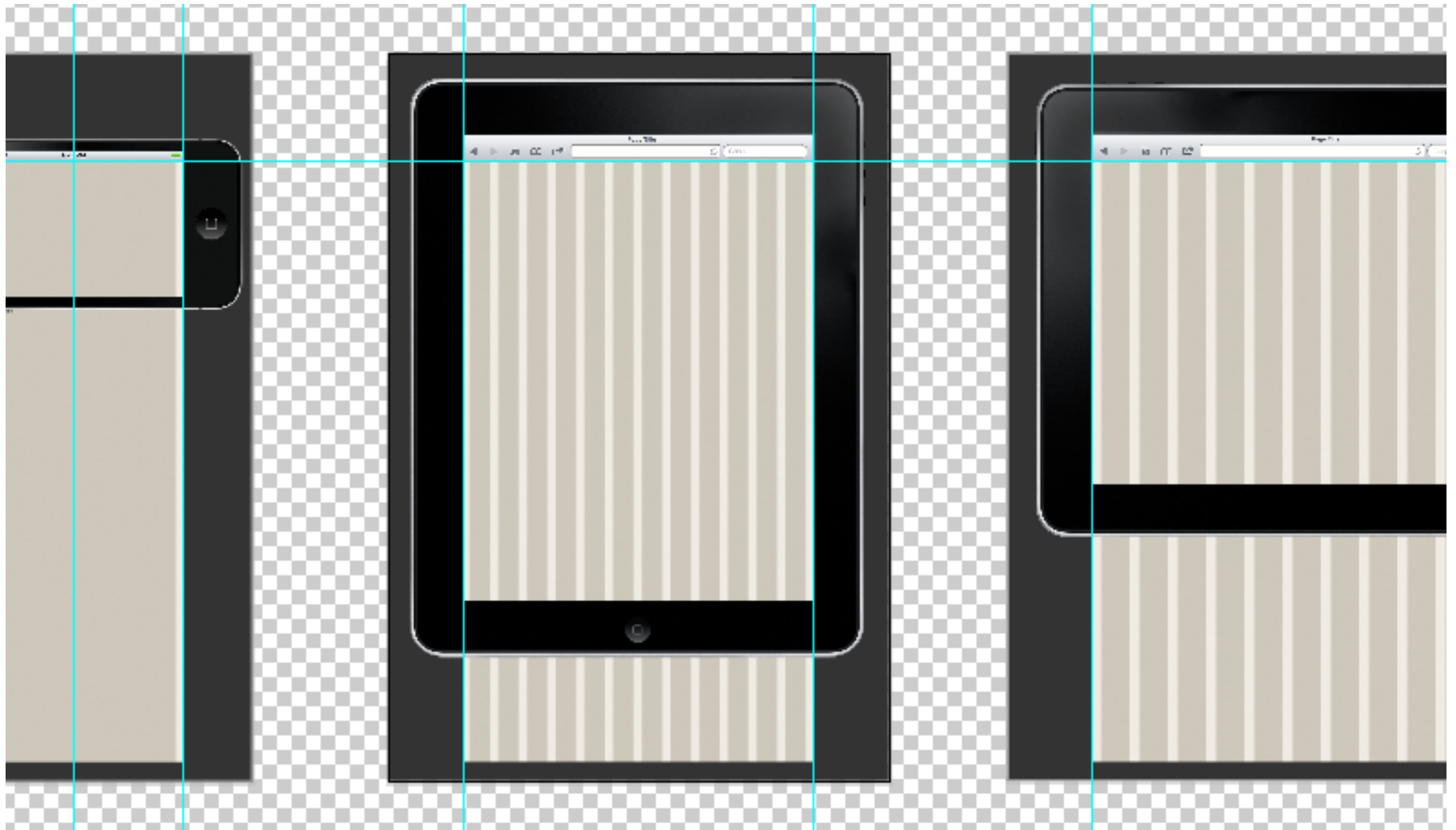
978 px Wireframe



320 px Wireframe



<http://www.rubbercheese.com/blog/comments/a-wireframe-template-for-responsive-web-design>



<http://www.benhayes.com/2012/05/adobe-illustrator-responsive-web-design-template/>

CSS Menu Maker

cssmenumaker.com

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Make Awesome Menus

Our menu generators makes it easy to create custom CSS drop down menus without having to know all the complicated code.

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Cross-browser Compatible

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Dw Dreamweaver Menus

Find a Menu

Drop Down Flyout Vertical Horizontal Tabbed



The image displays a grid of 12 menu examples. The first row shows four variations of a 'Drop Down' menu with 'Home', 'Products', and 'About' items. The second row shows four variations of a 'Flyout' menu. The third row shows four variations of a 'Vertical' menu. The fourth row shows four variations of a 'Horizontal' menu. The fifth row shows four variations of a 'Tabbed' menu. Each example uses different colors and layouts to demonstrate the tool's capabilities.

<http://cssmenumaker.com/>