

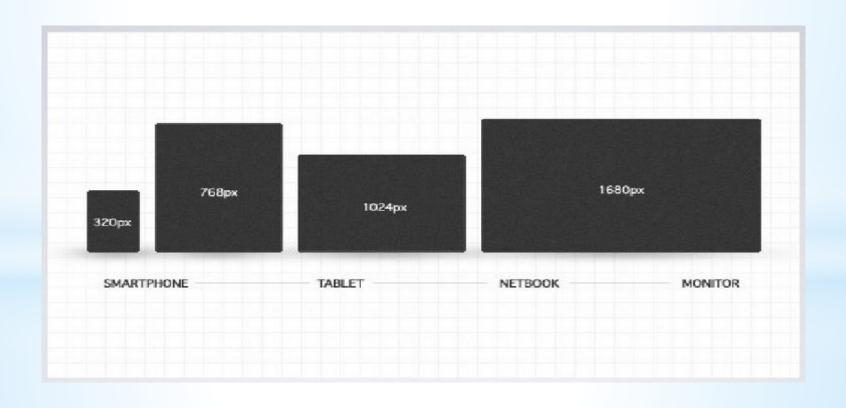
BWP: BESPONSIVE WEB DESIGN

AGENDA

- Apa itu responsive web design (RWD)
- Teknik responsive web design
 - CSS Media Queries
 - Fluid Grid
 - Fluid Image
- Proses desain web responsive
- Responsive frameworks
- Responsive frameworks : Bootstrap
- Let's Design !!!

APA ITU RWP?

Cara praktis membuat konten web anda agar tampil optimal dan sama baiknya ketika diakses oleh bermacam-macam devices

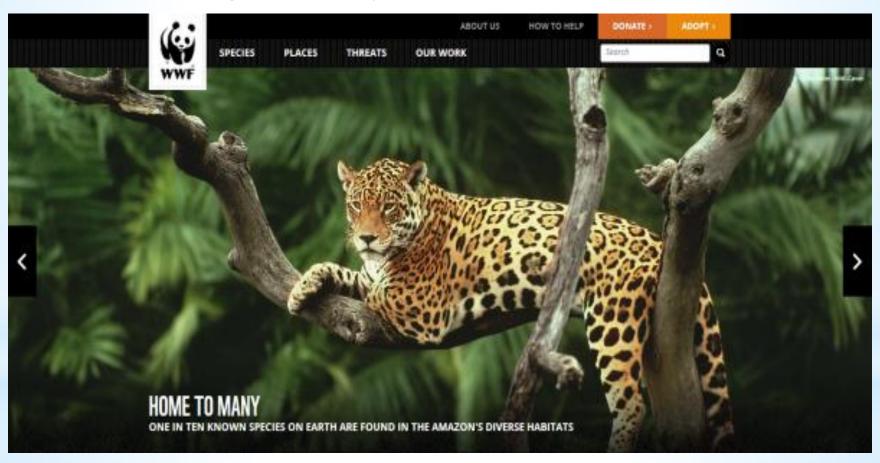


Desain dan coding website yang responsive terhadap:

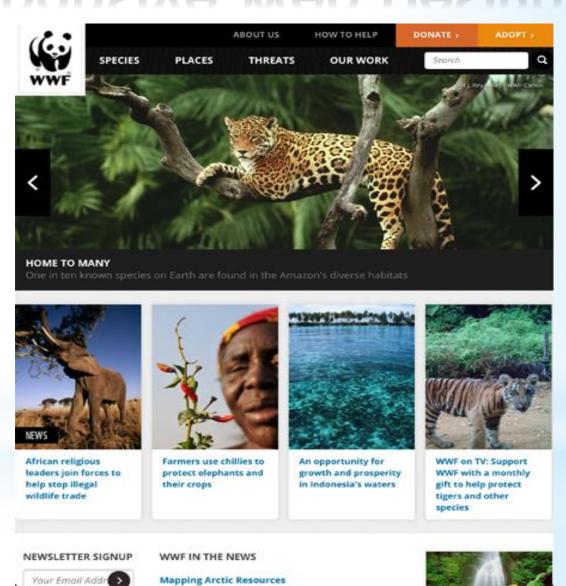
- Smartphone
- Tablet
- Notebook
- Netbook
- Monitor
- TV
- Web glasses



worlwildlife.org: desktop



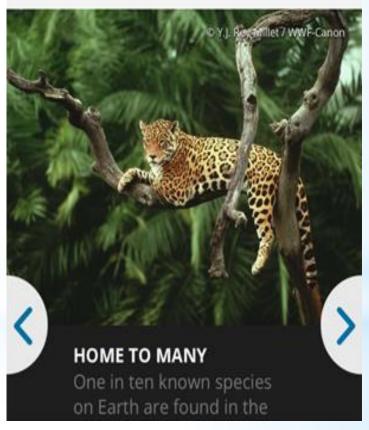
Tablet: worlwildlife.org



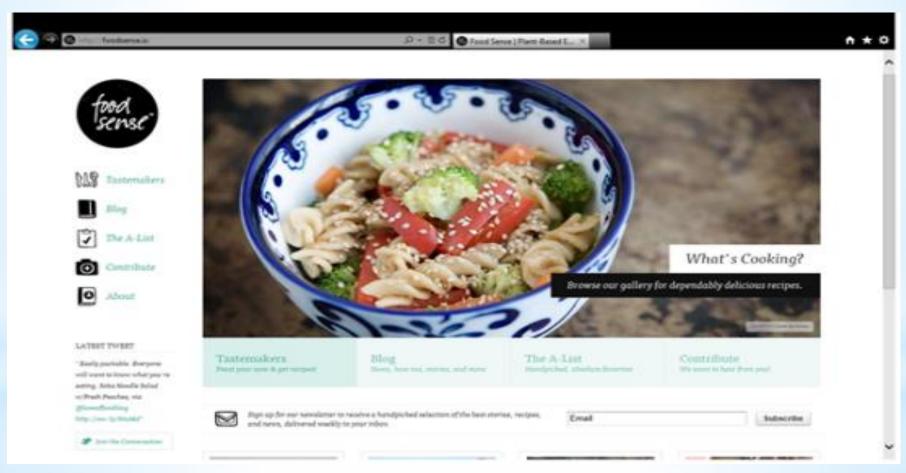
worlwildlife.org: smartphone



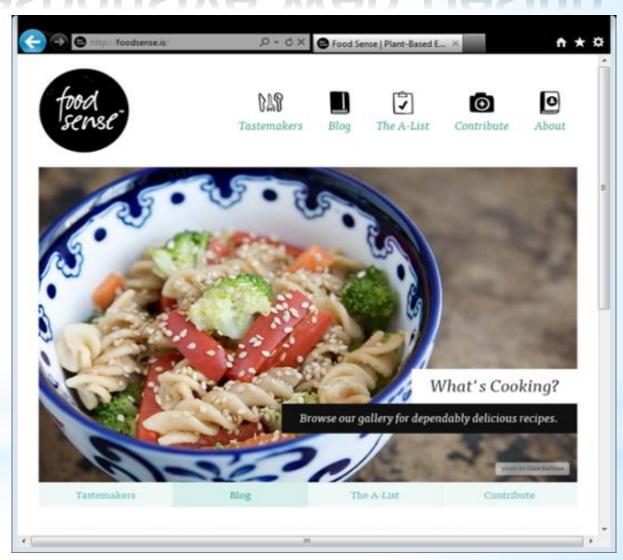




Posisi Navigasi di kiri:

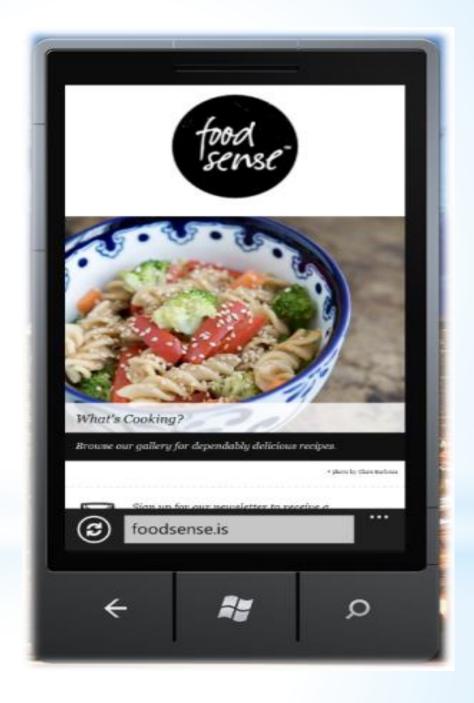


Dilayar 800x600: Navigasi pindah ke atas (top)

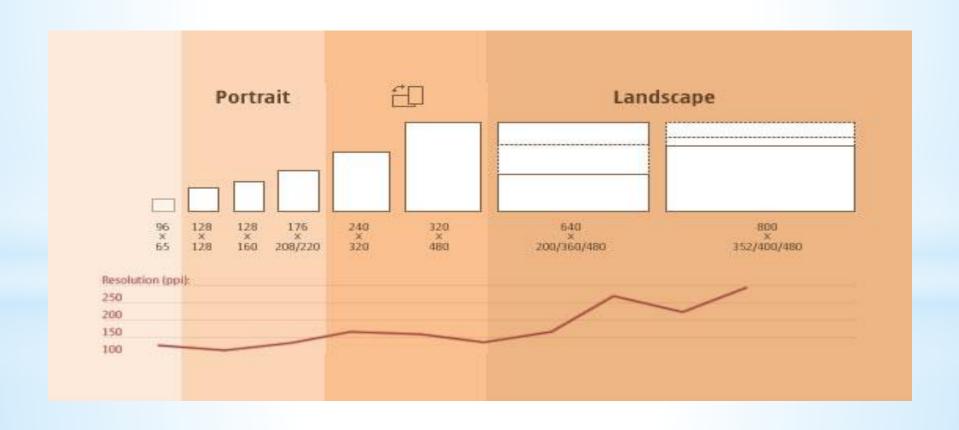




Akses melalui smartphone



Antarmuka website mampu beradaptasi dengan browser berdasarkan ukuran layar, platform dan orientasi



Teknik Pengembangan RWP :: HTML5

- CSS3 Media Queries
- Fluid-grid layouts
- Fluid images and other media

CSS3 Media Queries

- Memungkinkan halaman web menggunakan aturan CSS yang berbeda sesuai karakteristik dari devices atau dan browser yang mengakses
- Secara spesifik CSS disesuaikan dengan:
 - Tinggi dan lebar devices
 - Tinggi dan lebar browser
 - Resolusi layar
 - Orientasi devices (mobile / tablet : lanscape, potrait)
- Spesifikasi: www.w3.org/TR/css3-mediaqueries

CSS3 Media Queries

Style CSS:

```
body { background: red; }
@media only screen and (max-width: 320px) {
  body { background: orange; }
```

- Layar ukuran 0-320px: warna background akan orange
- Layar ukuran lebih besar dari 320px akan merah

CSS3 Media Queries

Internal Style:

```
@media only screen and (max-width: 320px) {
  /* kode css disini */
}
```

Eksternal Style link ke file CSS

```
<link media="only screen and (max-width: 768px)"
href="css/tablet.css"rel="stylesheet">
```

Eksternal Style via @import file

```
@import url("css/tablet.css") only screen and (max-width: 768px);
```

CSS3 Media Queries: Breakpoint

Label Layout Width

Smartphones 480px and below

Portrait Tables 480px to 768px

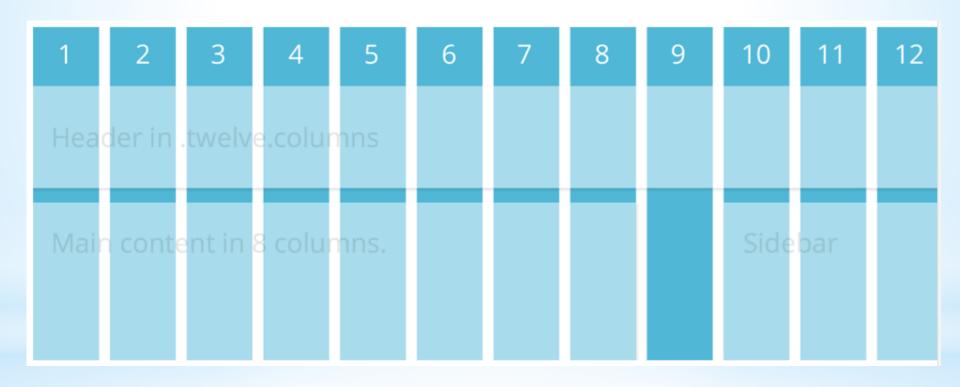
Landscape Tablets 768px to 940px

Default 940px and up

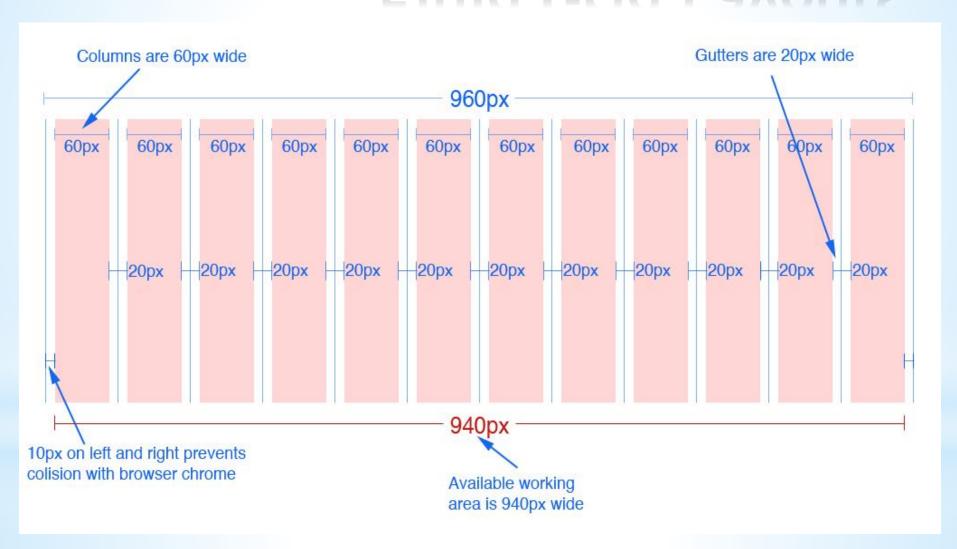
Large Screens 1210px and up

Fluid Grid Layouts

Style CSS di desain sesuai partisi ukuran lebar



Fluid Grid Layouts



Fluid Grid Layouts

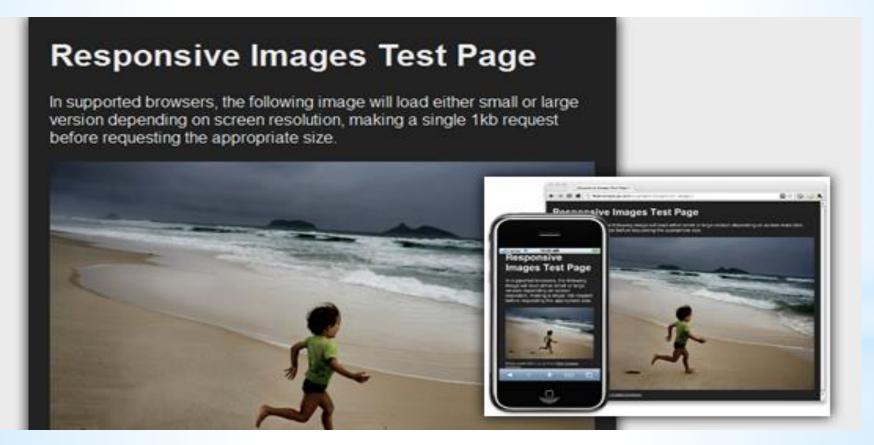
ONE			ELEVEN				
TWO			TEN				
THREE			NII	NE			
FOUR	R			EIGHT			
	FIVE			SEVEN			
SIX			SIX				
SEVEN				FIVE			
EIGHT				FOUR			
NINE					THREE		
TEN						TWO	
					ON		

Fluid Grid Layouts: Contoh

```
<div class="container-fluid">
<div class="row">
   <div class="col-md-12">
   </div>
</div>
<div class="row">
   <div class="col-md-12">
   </div>
</div>
<div class="row">
   <div class="col-md-8">
   </div>
   <div class="col-md-4">
   </div>
</div>
<div class="row">
   <div class="col-md-12">
   </div>
</div>
</div>
```

Fluid images (Flexible Images)

 Gambar / Video ditampilkan secara proporsional sesuai devices yang mengakses



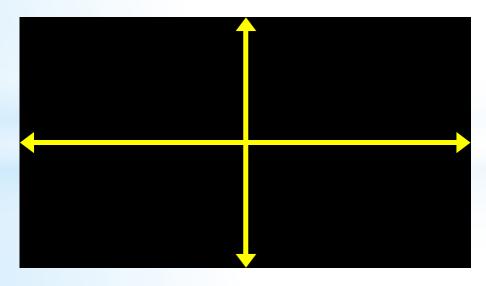
Fluid images (Resizable Images

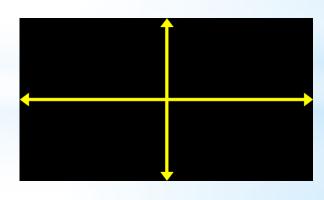
Hilangkan properti width dan height pada image:

```
<img src="gambar.jpg"/>
```

Styling CSS ukuran image yang resizable:

```
img {
  max-width:100%; height: auto;
```





Proses desain web responsive: Mobile First

- Buat design web versi mobile terlebih dahulu (phone, phablet, tablet)
- Gunakan desain versi mobile sebagai acuan untuk membuat design utama di Desktop Computer & Laptop

Proses desain web responsive: Mobile

•Mobile Layout:

- Buat link / tombol yang cukup besar untuk di tekan
- Tampilkan informasi yang penting dan paling penting dari website
- Lupakan Mouse OnHover
- Buat menu yang mudah untuk diakses pengguna

•Mobile Design:

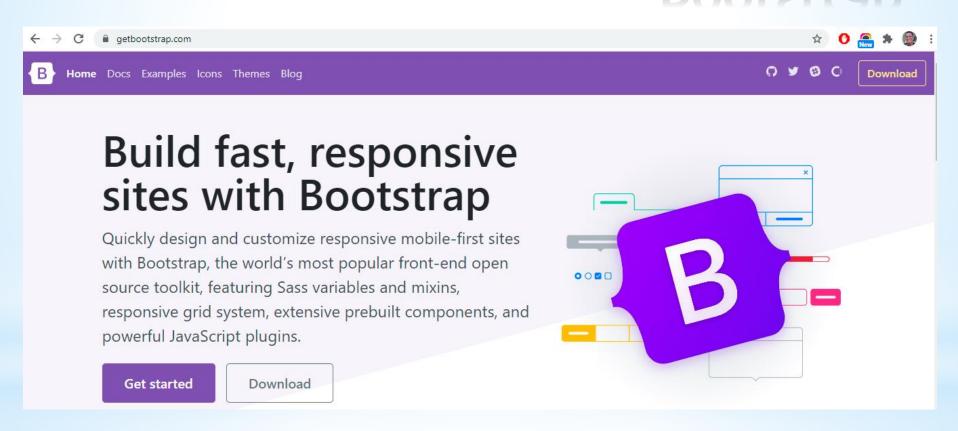
- Prototype lebih berguna dari Mockup
- Tidak berkutan dengan Pixel Perfect Design
- Jadikan design versi mobile sebagai acuan untuk membuat large screen design

Responsive Framework

- Kumpulan library DHTML yang mendukung pengembangan website dengan responsive web design
- Framework meyediakan styling CSS yang mendukung teknik-teknik RWD
- Framework dilengkapi dengan library JavaScript yang mendukung RWD

Responsive Framework

- http://www.responsivegridsystem.com/
- http://titanthemes.com/titan-framework-a-cssframework-for-responsive-webdesigns#!prettyPhoto
- http://foundation.zurb.com/index.php
- http://twitter.github.com/bootstrap/
- http://html5boilerplate.com/



Responsive Framework Bootstrap Reason #1: Rich Features

Designed for everyone, everywhere.

Need reasons to love Bootstrap? Look no further.

Built for and by nerds

Like you, we love building awesome products on the web. We love it so much, we decided to help people just like us do it easier, better, and faster. Bootstrap is built for you.

12-column grid

Grid systems aren't everything, but having a durable and flexible one at the core of your work can make development much simpler. Use our built-in grid classes or roll your own.

Growing library

Despite being only 10kb (gzipped), Bootstrap is one of the most complete front-end toolkits out there with dozens of fully functional components ready to be put to use.

3 CSS3

ultimate style.

Progressively enhanced components for

F HTML5

Built to support new HTML5 elements and syntax.

For all skill levels

Bootstrap is designed to help people of all skill levelsdesigner or developer, huge nerd or early beginner. Use it as a complete kit or use to start something more complex.

Responsive design

With Bootstrap 2, we've gone fully responsive. Our components are scaled according to a range of resolutions and devices to provide a consistent experience, no matter what.

* Custom iQuery plugins

What good is an awesome design component without easyto-use, proper, and extensible interactions? With Bootstrap, you get custom-built jQuery plugins to bring your projects to

life.

Open-source

Built for and maintained by the community via GitHub.

■ Cross-everything

Originally built with only modern browsers in mind, Bootstrap has evolved to include support for all major browsers (even IE7!) and, with Bootstrap 2, tablets and smartphones, too.

Styleguide docs

Unlike other front-end toolkits, Bootstrap was designed first and foremost as a stylequide to document not only our features, but best practices and living, coded examples.

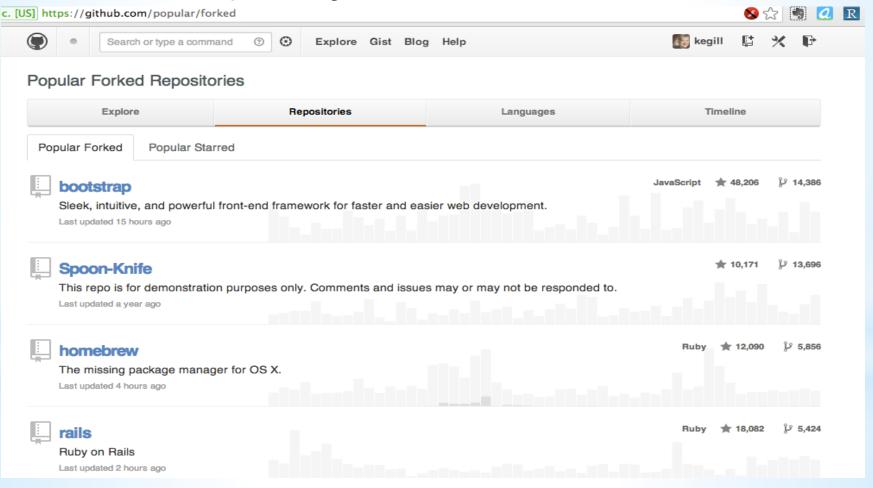
(less) Built on LESS

Where vanilla CSS falters, LESS excels. Variables, nesting, operations, and mixins in LESS makes coding CSS faster and more efficient with minimal overhead.

Made at Twitter

Brought to you by an experienced engineer and designer.

Reason #2: Popularity



Reason #3: Browser Support Witter Bootstrap



Responsive Framework:

Reason #4: Icon set



Reason #5: Grid System



Reason #6: Components

Buttons:	Action ▼ Action ▼	Danger ▼	Warning ▼	Success ▼	Info ▼	Inverse ▼	
Tabs:							
Breadcrur	mb:						
PaginationAlerts:	1	3 4 5	»				
Warning! Best check Progress	yo self, you're not looking	too good.					×

Reason #7: JavaScript / JQuery

Transitions (required for any animation)

Modals

Dropdowns

Scrollspy

Togglable tabs

Tooltips

Popovers (requires Tooltips)

Affix

Alert messages

Buttons

Collapse

Carousel

Typeahead

Heads up!

All checked plugins will be compiled into a single file, bootstrap.js. All plugins require the latest version of jQuery to be included.

Reason #8: Component

1. Choose components

Toggle all

Scaffolding

- Normalize and reset
- Body type and links
- Grid system
- Layouts

Base CSS

- Headings, body, etc
- Code and pre
- Labels and badges
- Tables
- ▼ Forms
- Buttons

Components

- Button groups and dropdowns
- Navs, tabs, and pills
- Navbar
- ▼ Breadcrumbs
- Pagination
- Pager
- Thumbnails
- Alerts
- Progress bars
- Hero unit
- Media component

Miscellaneous

- Media object
- Wells
- Close icon
- Utilities
- Component animations

Responsive

- ▼ Visible/hidden classes
- ▼ Narrow tablets and below (<767px)
 </p>
- ▼ Tablets to desktops (767-979px)
- ▼ Large desktops (>1200px)
- Responsive navbar

Reason #9: Well Documentation & Example

Dropdown menus Example Toggleable, contextual menu for displaying lists of links. Made interactive with the dropdown JavaS Example Action Another action Something else here Separated link <l Action Another action Something else here class="divider"> Separated link

Reason #10: Integration with Server Side Program

- PHP
 - Framework : Laravel, Yii Framework, Cl
- Java Web (Servlet / JSP)
 - Framework : Spring, Tapestry
- ASP.NET
 - ASP.NET MVC
- Ruby
- Python

Responsive Framework: Twitter Bootstrap

Reason #11: Integration with CMS Themes

- Joomla
- Wordpress
- Drupal

Let's Design !!

