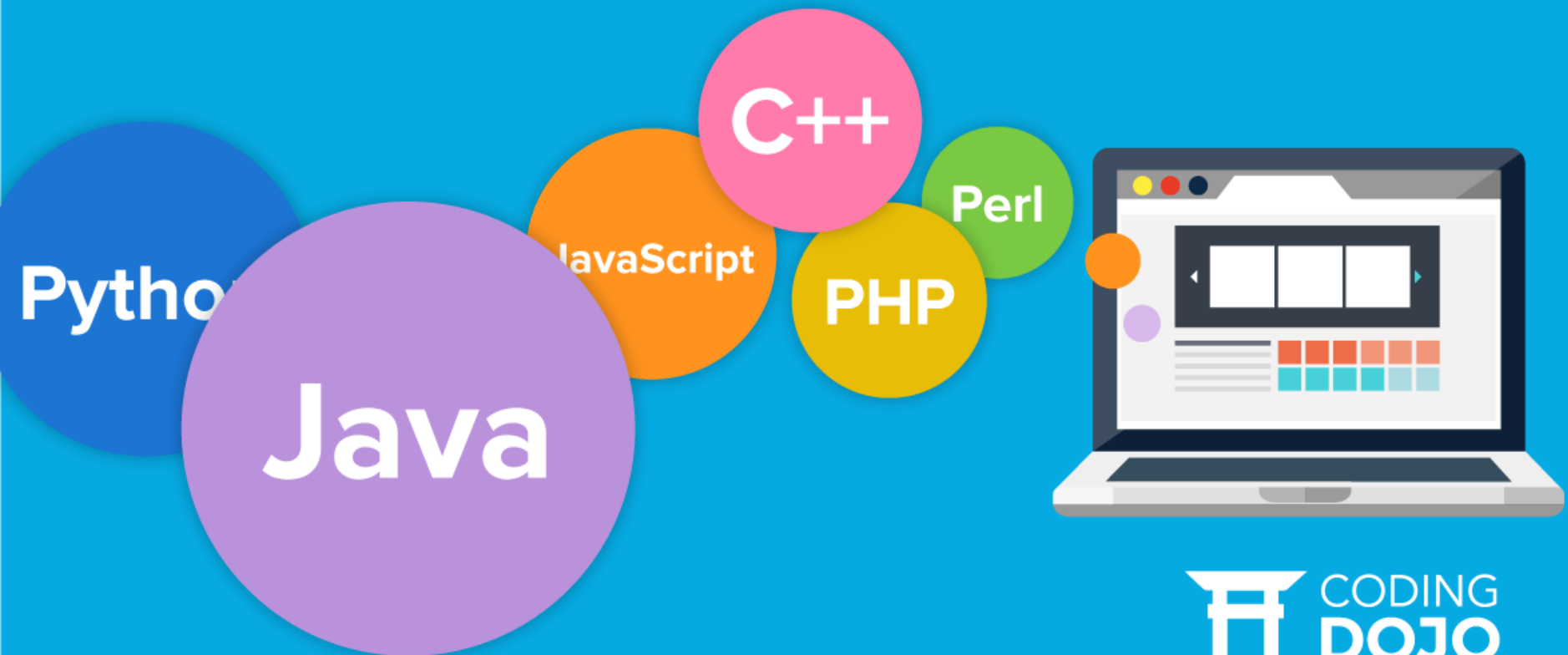


Responsive Web Design



Nội dung

Tài liệu
tham khảo

Khái niệm

Phương
pháp

Bootstrap

Responsive Web Design

1



Responsive Web Design

TÀI LIỆU THAM KHẢO





£ Bootstrap

- <http://getbootstrap.com/>

- <http://bootsnipp.com/>

£ Testing Responsive Web

- <http://mattkersley.com/responsive/>

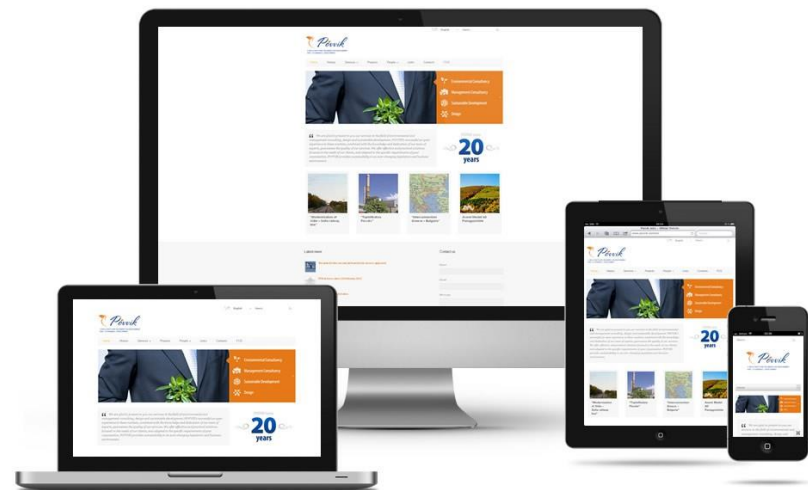
- <http://protofluid.com>



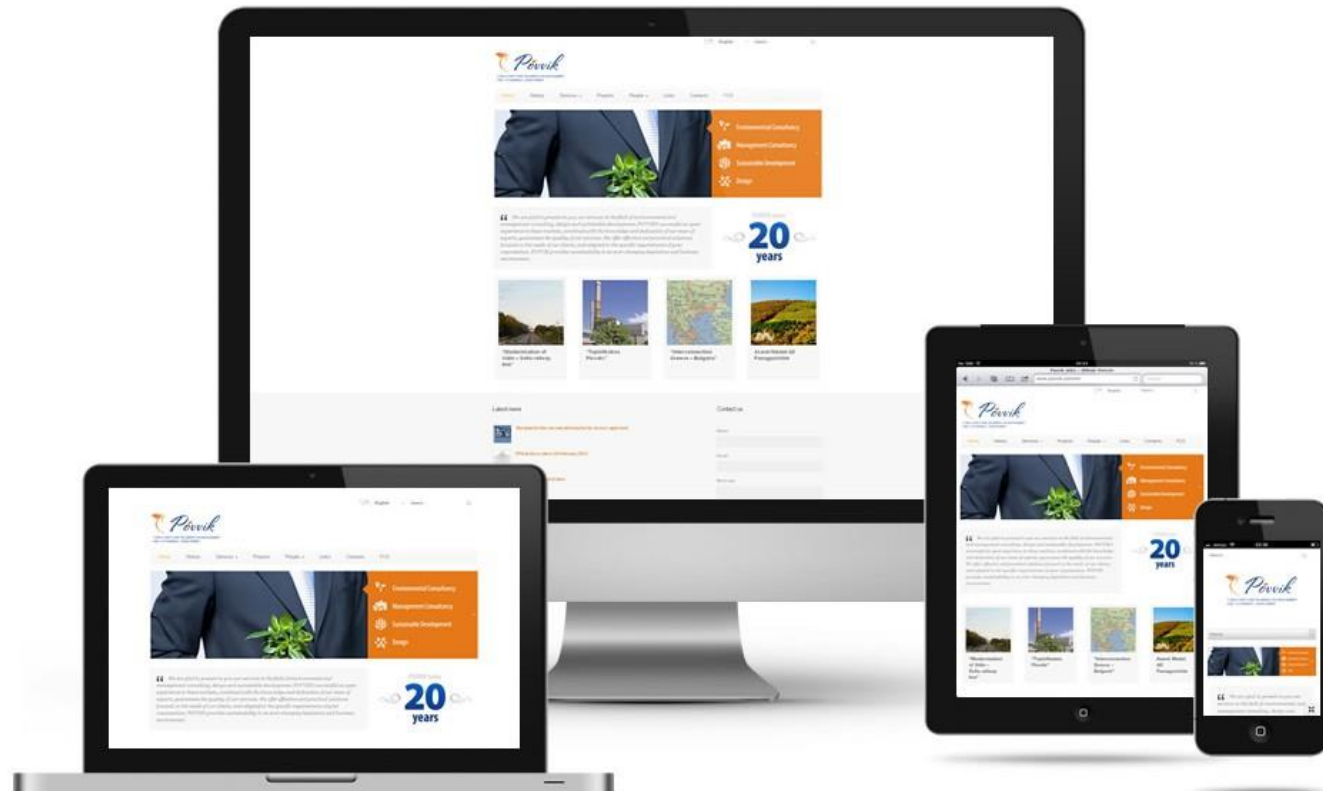
2

Responsive Web Design

KHÁI NIỆM



£ Kỹ thuật thiết kế giao diện trang web thích hợp với nhiều loại thiết bị khác nhau



3

Responsive Web Design

STRATEGIES





1. Fluid & Flexible Layout

- ❑ Sử dụng tỉ lệ % cho width
- ❑ Cho phép các element tự động thay đổi kích thước

2. Flexible Image

- ❑ Cho phép image tự động thay đổi kích thước

3. CSS3 Media Queries

- ❑ Chỉ định style cụ thể cho từng loại kích thước màn hình



£ Qui định kích thước toàn trang

```
<meta name="viewport" content="width=device-width, initial-scale=1.0">
```

£ Định nghĩa chiều rộng width theo tỉ lệ %

```
1 .menu {  
2     width: 25%;  
3     float: left;  
4 }  
5 img {  
6     width: 75%;  
7     float: left;  
8 }
```



£ Cách 1: Sử dụng media attribute

```
1 <link rel="stylesheet" media="screen" href="style.css" />
2
3 <link rel="stylesheet" media="only screen and
4     (min-width:320px) and (max-width:568px)" href="mobile.css" />
5
6 <link rel="stylesheet" media="only screen and
7     (min-width:768px) and (max-width:980px)" href="tablet.css" />
```

£ Cách 2: Sử dụng media query

```
1 @media(max-width: 600px) {  
2     /* Styles go here */  
3 }  
4  
5 @media(min-width: 700px) {  
6     /* Styles go here */  
7 }  
8  
9 @media only screen and (min-width: 320px) and (max-width: 568px) {  
10     /* Styles go here */  
11 }  
12  
13 @media only screen and (min-width: 768px) and (max-width: 980px) {  
14     /* Styles go here */  
15 }
```

4

Responsive Web Design

BOOTSTRAP





£ HTML, CSS và JavaScript Framework
cho phép thiết kế phát triển Responsive
Web Design

- ☐ Nhanh chóng
- ☐ Dễ dàng
- ☐ Tương thích trình duyệt

Bootstrap Components



£ Alerts

£ Badge

£ Breadcrumb

£ Buttons

£ Card

£ Carousel

£ Collapse

£ Dropdowns

£ Forms

£ Jumbotron

£ Modal

£ Navbar

£ Pagination

£ Progress

£ Scrollspy

£ ...



Sử dụng Bootstrap



```
<!doctype html>
<html lang="en">
  <head>
    <!-- Required meta tags -->
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1,
shrink-to-fit=no">

    <!-- Bootstrap CSS -->
    <link rel="stylesheet" href="css/bootstrap.min.css" >

    <title>Hello, world!</title>
  </head>
  <body>
    <h1>Hello, world!</h1>

    <!-- Optional JavaScript -->
    <!-- jQuery first, then Popper.js, then Bootstrap JS -->
    <script src=js/jquery-3.2.1.min.js" ></script>
    <script src=js/popper.min.js" ></script>
    <script src=js/bootstrap.min.js" ></script>
  </body>
</html>
```


Bootstrap Media query



```
// Extra small devices (portrait phones, less than 576px)
// No media query since this is the default in Bootstrap

// Small devices (landscape phones, 576px and up)
@media (min-width: 576px) { ... }

// Medium devices (tablets, 768px and up)
@media (min-width: 768px) { ... }

// Large devices (desktops, 992px and up)
@media (min-width: 992px) { ... }

// Extra large devices (large desktops, 1200px and up)
@media (min-width: 1200px) { ... }
```


12 Column Grid



.container or .container-fluid

.row

.col-*-12

.col-*-6

.col-*-6

.col-*-4

.col-*-4

.col-*-4

.col-*-6

.col-*-3

.col-*-3

.col-*-2

.col-*-2

.col-*-2

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Dawlish Learning Partnership

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Childcare


After School and Holiday Clubs


Life Long Learning


Training For Work


Help for Young People and Parents


Community Access to Schools

DLP Latest News



Little Dolphin Swim Awards

28th February 2010

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut molestie libero enim, in accumsan sem. In mi purus, dapibus id imperdiet sit amet, vehicula nec dolor. Pellentesque in.

[Read More >>](#)



New Pool for Dawlish Community College

[Read More >>](#)

Teachers Blog

New CPD Video

27th February 2010



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[Read More >>](#)

Container



```
<div class="container">  
  <!-- Content here -->  
</div>
```

Copy



Fluid Container



```
<div class="container-fluid">  
  ...  
</div>
```

Copy



Bootstrap Grid System



	Extra small <576px	Small ≥576px	Medium ≥768px	Large ≥992px	Extra large ≥1200px
Max container width	None (auto)	540px	720px	960px	1140px
Class prefix	<code>.col-</code>	<code>.col-sm-</code>	<code>.col-md-</code>	<code>.col-lg-</code>	<code>.col-xl-</code>
# of columns	12				
Gutter width	30px (15px on each side of a column)				





About us

Lorem ipsum dolor, sit amet
consectetur adipisicing elit. Illo
officiis facilis deleniti mollitia.



Working Place

Lorem ipsum dolor sit amet,
consectetur adipisicing elit.
Reiciendis iste dolore quia esse
eaque



Work and paid

Lorem ipsum dolor sit amet,
consectetur adipisicing elit.
Officia, ad a! Saepe atque autem
doloremque,

```
<div class="row equal">
  <div class="col">...</div>
  <div class="col">...</div>
  <div class="col">...</div>

</div>
```

Vertical Align

<code>.align-items-start</code>	<code>.align-items-start</code>	<code>.align-items-start</code>
<code>.align-items-center</code>	<code>.align-items-center</code>	<code>.align-items-center</code>
<code>.align-items-end</code>	<code>.align-items-end</code>	<code>.align-items-end</code>

Vertical Align



`.align-self-start`

`.align-self-center`

`.align-self-end`

Horizontal Align



.justify-content-start

.justify-content-start

.justify-content-center

.justify-content-center

.justify-content-end

.justify-content-end

.justify-content-around

.justify-content-around

.justify-content-between

.justify-content-between

Navbar Home Features Pricing Disabled

Copy

```
<nav class="navbar navbar-expand-lg navbar-light bg-light">
  <a class="navbar-brand" href="#">Navbar</a>
  <button class="navbar-toggler" type="button" data-toggle="collapse"
data-target="#navbarNavAltMarkup" aria-controls="navbarNavAltMarkup"
aria-expanded="false" aria-label="Toggle navigation">
    <span class="navbar-toggler-icon"></span>
  </button>
  <div class="collapse navbar-collapse" id="navbarNavAltMarkup">
    <div class="navbar-nav">
      <a class="nav-item nav-link active" href="#">Home
<span class="sr-only">(current)</span></a>
      <a class="nav-item nav-link" href="#">Features</a>
      <a class="nav-item nav-link" href="#">Pricing</a>
      <a class="nav-item nav-link disabled" href="#">Disabled</a>
    </div>
  </div>
</nav>
```

Navbar



Home

Features

Pricing

Disabled

Responsive Image



769x250

```

```

Copy

Thumbnail



```

```

Colors



.text-primary

.text-secondary

.text-success

.text-danger

.text-warning

.text-info

.text-light

.text-dark

.text-muted

.text-white

.bg-primary

.bg-secondary

.bg-success

.bg-danger

.bg-warning

.bg-info

.bg-light

.bg-dark

.bg-white

Buttons



```
<button type="button" class="btn btn-primary">Primary</button>
<button type="button" class="btn btn-secondary">Secondary</button>
<button type="button" class="btn btn-success">Success</button>
<button type="button" class="btn btn-danger">Danger</button>
<button type="button" class="btn btn-warning">Warning</button>
<button type="button" class="btn btn-info">Info</button>
<button type="button" class="btn btn-light">Light</button>
<button type="button" class="btn btn-dark">Dark</button>

<button type="button" class="btn btn-link">Link</button>
```

Copy

Spacing



The classes are named using the format `{property}{sides}-{size}` for `xs` and `{property}{sides}-{breakpoint}-{size}` for `sm`, `md`, `lg`, and `xl`.

Where *property* is one of:

- `m` - for classes that set `margin`
- `p` - for classes that set `padding`

Where *sides* is one of:

- `t` - for classes that set `margin-top` or `padding-top`
- `b` - for classes that set `margin-bottom` or `padding-bottom`
- `l` - for classes that set `margin-left` or `padding-left`
- `r` - for classes that set `margin-right` or `padding-right`
- `x` - for classes that set both `*-left` and `*-right`
- `y` - for classes that set both `*-top` and `*-bottom`
- blank - for classes that set a `margin` or `padding` on all 4 sides of the element

Where *size* is one of:

- **0** - for classes that eliminate the **margin** or **padding** by setting it to **0**
- **1** - (by default) for classes that set the **margin** or **padding** to **\$spacer * .25**
- **2** - (by default) for classes that set the **margin** or **padding** to **\$spacer * .5**
- **3** - (by default) for classes that set the **margin** or **padding** to **\$spacer**
- **4** - (by default) for classes that set the **margin** or **padding** to **\$spacer * 1.5**
- **5** - (by default) for classes that set the **margin** or **padding** to **\$spacer * 3**
- **auto** - for classes that set the **margin** to auto

Spacing



Centered element

```
<div class="mx-auto" style="width: 200px;">  
  Centered element  
</div>
```

Copy



**STRAWBERRY PICKING
IN BUNDABERG QLD**

-- GET YOUR 2ND YEAR VISA DAYS DONE

**HOURLY RATES \$22.18/HR AND
CONTRACT AWARD RATE**

VARIOUS FARM WORK AVAILABLE ALL YEAR AROUND WILL
INCLUDE PICKING AND PACKING OF STRAWBERRIES. PICKING
ZUCCHINI, TOMATOES, MANGOES AND LYCHEES

[Book a room](#)

Hello, world!

This is a simple hero unit, a simple jumbotron-style component for calling extra attention to featured content or information.

It uses utility classes for typography and spacing to space content out within the larger container.

[Learn more](#)

Featured

Special title treatment

With supporting text below as a natural lead-in to additional content.

[Go somewhere](#)

2 days ago



£ Responsive Web Design

□ Khái niệm

□ Phương pháp

- Fluid & Flexible Layout

- Flexible Image

- CSS3 Queries

□ Bootstrap

- 12 Column Grid

- Components

