Web Programming

CSS BOOTSTRAP

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Bootstrap History

Bootstrap was developed by Mark Otto and Jacob Thornton at Twitter, and released as an open source product in August 2011 on GitHub.

In June 2014 Bootstrap was the No.1 project on GitHub!

Bootstrap

- Bootstrap is a free front-end framework for faster and easier web development

- Bootstrap includes HTML and CSS based design templates for typography, forms, buttons, tables, navigation, modals, image carousels and many other, as well as optional JavaScript plugins

- Bootstrap also gives you the ability to easily create responsive designs

Responsive web design is about creating web sites which automatically adjust themselves to look good on all devices, from small phones to large desktops.

Bootstrap Advantages

1. Easy to use: Anybody with just basic knowledge of HTML and CSS can start using Bootstrap

2. Responsive features: Bootstrap's responsive CSS adjusts to phones, tablets, and desktops

3. Mobile-first approach: In Bootstrap 3, mobile-first styles are part of the core framework

4. Browser compatibility: Bootstrap is compatible with all modern browsers (Chrome, Firefox, Internet Explorer, Safari, and Opera)

Bootstrap Files

the structure of (the compiled) Bootstrap

```
bootstrap/
├── css/
│   ├── bootstrap.css
│   ├── bootstrap.css.map
│   ├── bootstrap.min.css
│   ├── bootstrap-theme.css
│   ├── bootstrap-theme.css.map
│   └── bootstrap-theme.min.css
├── js/
│   ├── bootstrap.js
│   └── bootstrap.min.js
└── fonts/
    ├── glyphicons-halflings-regular.eot
    ├── glyphicons-halflings-regular.svg
    ├── glyphicons-halflings-regular.ttf
    ├── glyphicons-halflings-regular.woff
    └── glyphicons-halflings-regular.woff2
```

Basic Bootstrap Page

```html
<!DOCTYPE html>

<html lang="en">

<head>

  <title>Bootstrap Example</title>

  <meta charset="utf-8">

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

  <link rel="stylesheet" href="bootstrap/css/bootstrap.min.css">

</head>

<body>
```

Grid System

- Grid systems are used for creating page layouts through a series of rows and columns that house your content.

- Bootstrap's grid system allows up to 12 columns across the page.

- If you do not want to use all 12 column individually, you can group the columns together to create wider columns:

- Bootstrap's grid system is responsive, and the columns will re-arrange automatically depending on the screen size.

.col-md-1	.col-md-1	.col-md-1	.col-md-1	.col-md-1	.col-md-1	.col-md-1	.col-md-1	.col-md-1	.col-md-1	.col-md-1	.col-md-1

.col-md-8		.col-md-4

.col-md-4	.col-md-4	.col-md-4

.col-md-6	.col-md-6

Grid Classes

The Bootstrap grid system has four classes:

- xs (for phones)

- sm (for tablets)

- md (for desktops)

- lg (for larger desktops)

Others feature of Bootstrap

1. Typhography
2. Tables
3. Images
4. Alerts
5. Buttons
6. Glyphicons
7. Panels
8. Forms
9. ,etc

Refference

- http://www.w3schools.com/bootstrap
- http://getbootstrap.com/

Thank You