



Introduction to HTML / CSS



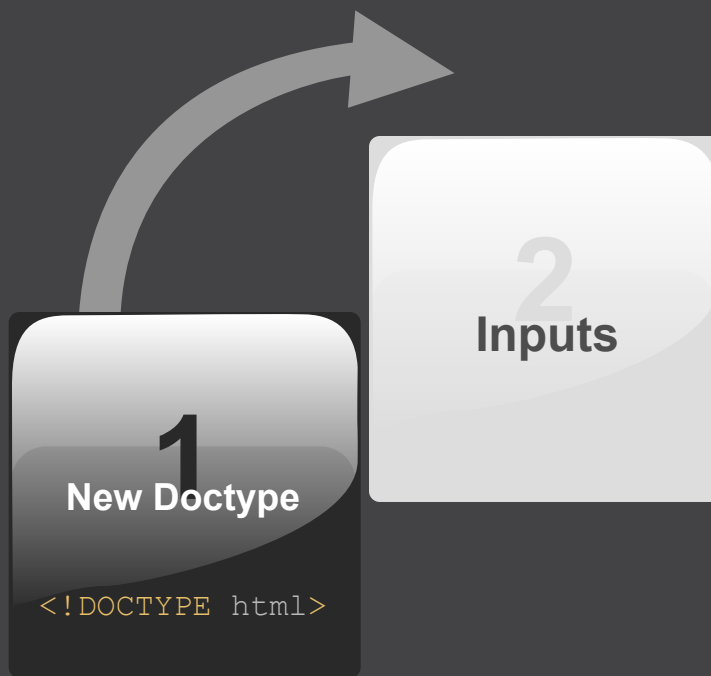
HTML



HTML5 Features



HTML5 Features



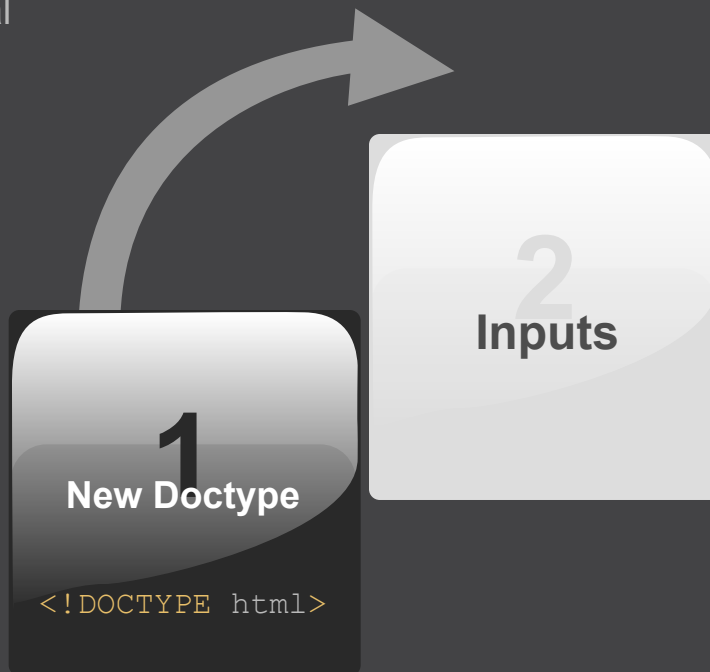
HTML5 Features



```
<input type="text" id="some-input" name="some-input"
placeholder="Enter text" required="required">
```

`input` type:

- color
- date
- datetime
- datetime-local
- email
- month
- number
- range
- search
- tel
- time
- url
- week



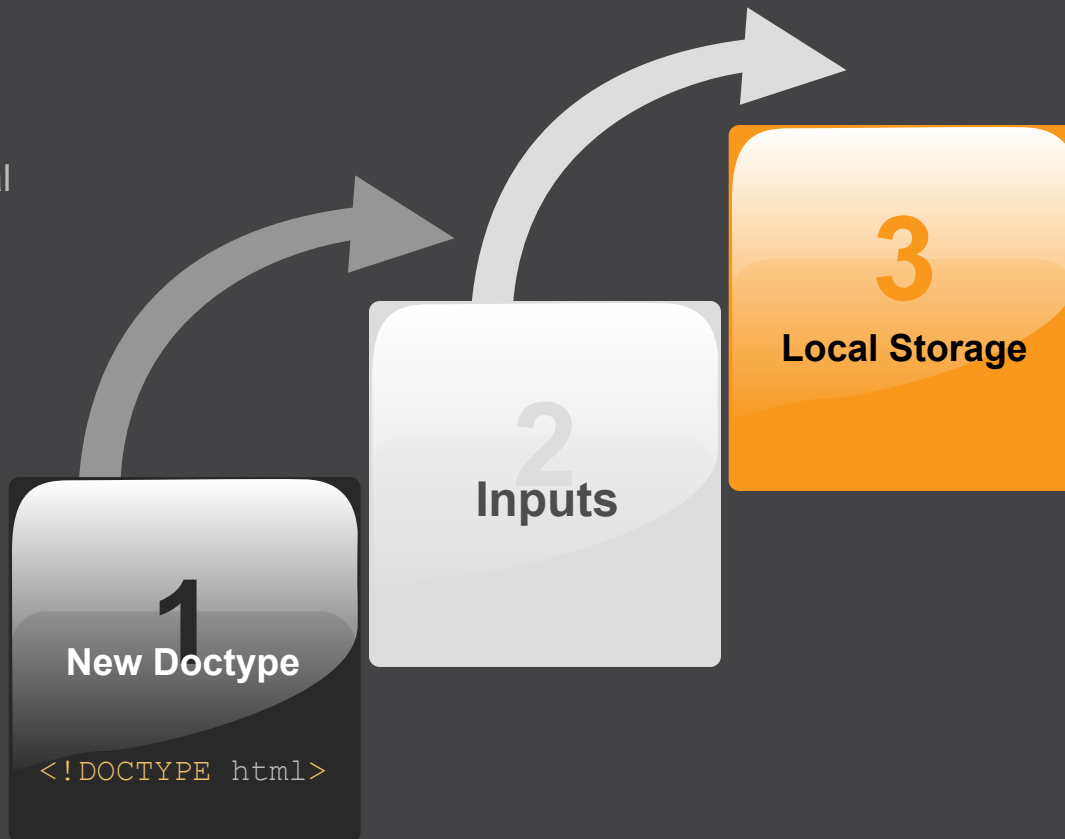
HTML5 Features



```
<input type="text" id="some-input" name="some-input"
placeholder="Enter text" required="required">
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`input` type:

- color
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- time
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- week



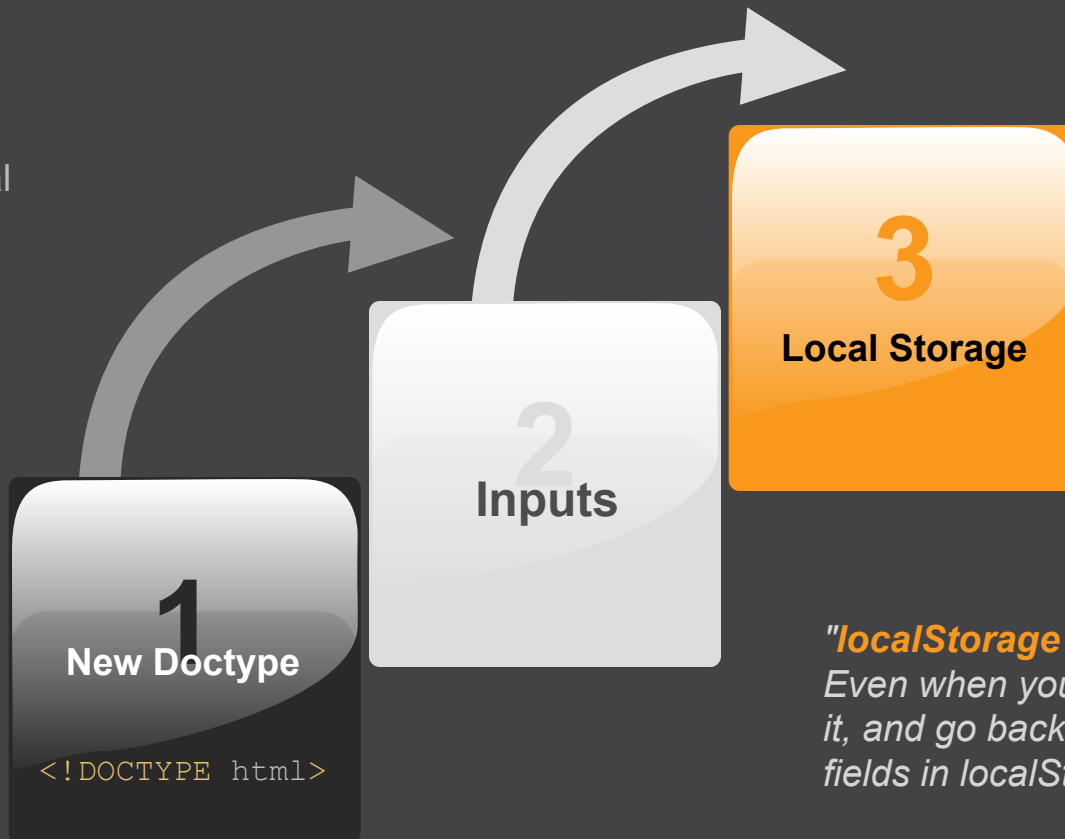
HTML5 Features



```
<input type="text" id="some-input" name="some-input"
placeholder="Enter text" required="required">
```

`input` type:

- color
- date
- datetime
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- email
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- tel
- time
- url
- week



*"**localStorage** sets fields on the domain. Even when you close the browser, reopen it, and go back to the site, it remembers all fields in **localStorage**."*

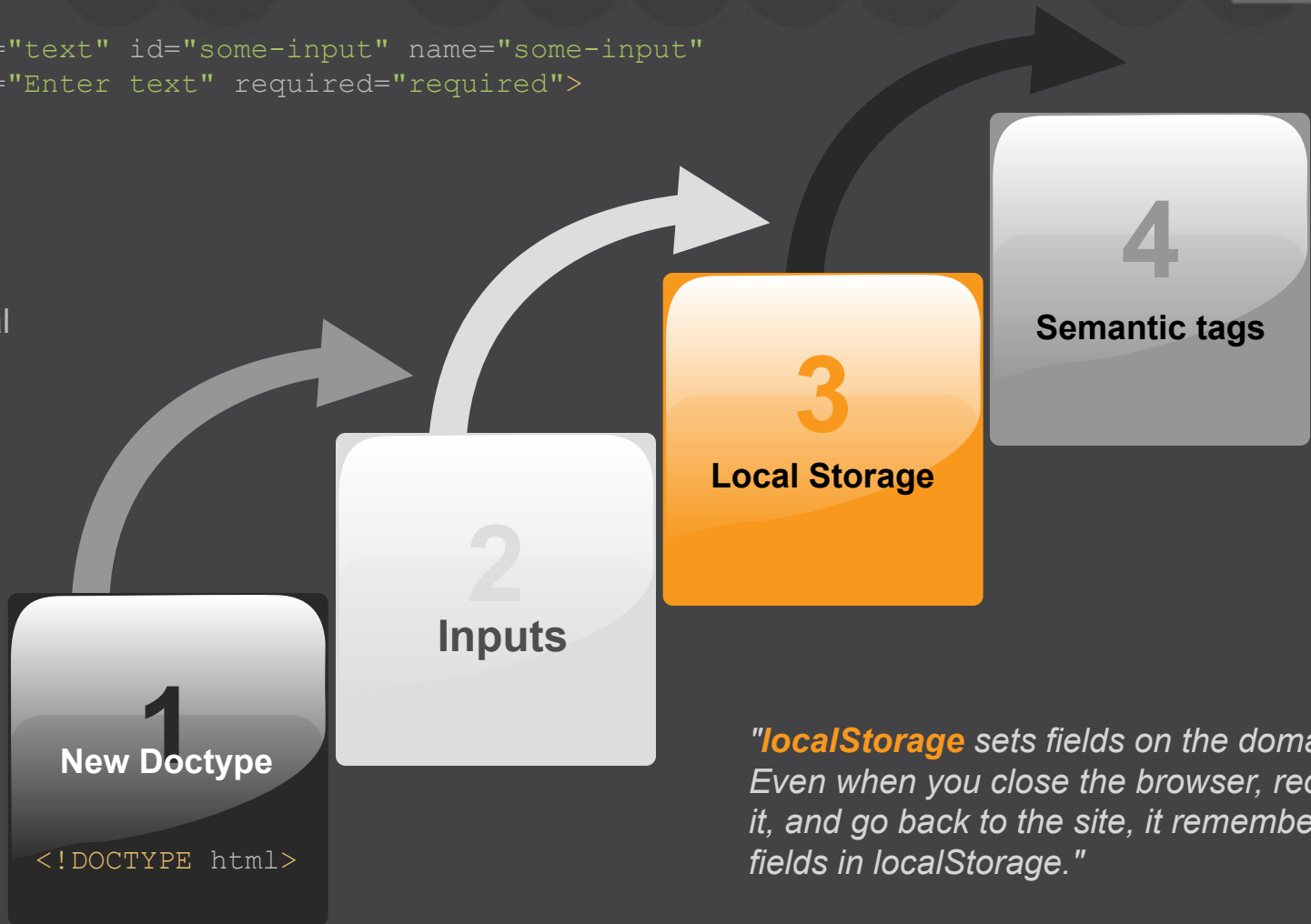
HTML5 Features



```
<input type="text" id="some-input" name="some-input"
placeholder="Enter text" required="required">
```

`input` type:

- color
- date
- datetime
- datetime-local
- email
- month
- number
- range
- search
- tel
- time
- url
- week



*"**localStorage** sets fields on the domain. Even when you close the browser, reopen it, and go back to the site, it remembers all fields in **localStorage**."*

HTML5 Features



HTML5 Features



```
<audio autoplay="autoplay" controls="controls">  
  <source src="file.ogg" />  
  <source src="file.mp3" />  
  <a>Download this file.</a>  
</audio>
```



HTML5 Features



```
<audio autoplay="autoplay" controls="controls">  
  <source src="file.ogg" />  
  <source src="file.mp3" />  
  <a>Download this file.</a>  
</audio>
```



HTML5 Features



```
<audio autoplay="autoplay" controls="controls">
  <source src="file.ogg" />
  <source src="file.mp3" />
  <a>Download this file.</a>
</audio>
```

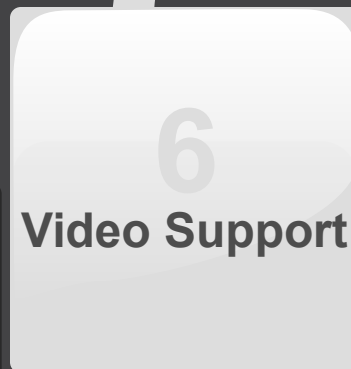


```
<video controls preload>
  <source src="video1.ogv" type="video/ogg; codecs='vorbis,
theora'" />
  <source src="video1.mp4" type="video/mp4;
'codecs='avc1.42E01E, mp4a.40.2'" />
  <p> Your browser is old. <a href="video1.mp4">Download this
video instead.</a> </p>
</video>
```

HTML5 Features



```
<audio autoplay="autoplay" controls="controls">
  <source src="file.ogg" />
  <source src="file.mp3" />
  <a>Download this file.</a>
</audio>
```



```
<video controls preload>
  <source src="video1.ogv" type="video/ogg; codecs='vorbis,
theora'" />
  <source src="video1.mp4" type="video/mp4;
'codecs='avc1.42E01E, mp4a.40.2'" />
  <p> Your browser is old. <a href="video1.mp4">Download this
video instead.</a> </p>
</video>
```

HTML5 Features



Data Attribute:

```
<h1 data-hover-response="I Said Don't Touch Me!"> Don't Touch Me </h1>
```

```
h1 { position: relative; }
h1:hover { color: transparent; }

h1:hover:after {
  content: attr(data-hover-response);
  color: black;
  position: absolute;
  left: 0;
}
```



<http://css3generator.com/>



CSS3 Generator

Choose Something



Border Radius

Box Shadow

Text Shadow

RGBA

@Font Face

Multiple Columns

Box Resize

Box Sizing

Outline

Transition

Transform

Gradient

New Features in CSS 3



1

Selectors

`[attr^=val]` value starting with val

`[attr$=val]` value ending with the suffix val

`[attr*=val]` value containing the substring val

New Features in CSS 3



1

Selectors

2

Rounded Corners

`[attr^=val]` value starting with val

`[attr$=val]` value ending with the suffix val

`[attr*=val]` value containing the substring val

```
.box-rounded{  
  -webkit-border-radius: 5px 5px 5px 5px;  
  border-radius: 5px 5px 5px 5px;  
}
```

New Features in CSS 3



1

Selectors

2

Rounded Corners

3

Border Image

`[attr^=val]` value starting with val

`[attr$=val]` value ending with the suffix val

`[attr*=val]` value containing the substring val

```
.box-rounded{  
  -webkit-border-radius: 5px 5px 5px 5px;  
  border-radius: 5px 5px 5px 5px;  
}
```

```
.box-border{  
  border-image:url(border-image.png) 100  
100 round;  
  border:30px solid transparent;  
}
```

New Features in CSS 3



1

Selectors

2

Rounded Corners

3

Border Image

4

Box Shadow

`[attr^=val]` value starting with val

`[attr$=val]` value ending with the suffix val

`[attr*=val]` value containing the substring val

```
.box-rounded{  
  -webkit-border-radius: 5px 5px 5px 5px;  
  border-radius: 5px 5px 5px 5px;  
}
```

```
.box-border{  
  border-image:url(border-image.png) 100  
100 round;  
  border:30px solid transparent;  
}
```

```
.shady-block{  
  -webkit-box-shadow: 5px 10px 5px 7px  
#444444;  
  box-shadow: 5px 10px 5px 7px #444444;  
}
```

New Features in CSS 3



5

Text Shadow

```
.shady-text{  
  text-shadow: 2px 3px 3px #0a0a0a;  
}
```

New Features in CSS 3



5

Text Shadow

```
.shady-text{  
  text-shadow: 2px 3px 3px #0a0a0a;  
}
```

6

Gradient

New Features in CSS 3



5

Text Shadow

```
.shady-text{  
  text-shadow: 2px 3px 3px #0a0a0a;  
}
```

6

Gradient

```
.bg-transparent{  
  background-color: rgba(33, 44, 55, 0.7);  
  color: rgba(33, 44, 55, 0.7);  
}
```

7

RGBA: Color, Now with Opacity

New Features in CSS 3



5

Text Shadow

6

Gradient

7

RGBA: Color, Now with Opacity

8

Transform (Element Rotation)

```
.shady-text{
  text-shadow: 2px 3px 3px #0a0a0a;
}

.bg-transparent{
  background-color: rgba(33, 44, 55, 0.7);
  color: rgba(33, 44, 55, 0.7);
}
```


New Features in CSS 3



5

Text Shadow

6

Gradient

7

RGBA: Color, Now with Opacity

8

Transform (Element Rotation)

9

Multicolumn Layout

```
.shady-text{
  text-shadow: 2px 3px 3px #0a0a0a;
}

.bg-transparent{
  background-color: rgba(33, 44, 55, 0.7);
  color: rgba(33, 44, 55, 0.7);
}

.columns{
  -moz-column-count: 2;
  -moz-column-gap: 20px;
  -webkit-column-count: 2;
  -webkit-column-gap: 20px;
  column-count: 2;
  column-gap: 20px;
}
```

New Features in CSS 3



5

Text Shadow

6

Gradient

7

RGBA: Color, Now with Opacity

8

Transform (Element Rotation)

9

Multicolumn Layout

10

Web Fonts (@font-face)

```
.shady-text{
  text-shadow: 2px 3px 3px #0a0a0a;
}

.bg-transparent{
  background-color: rgba(33, 44, 55, 0.7);
  color: rgba(33, 44, 55, 0.7);
}

.columns{
  -moz-column-count: 2;
  -moz-column-gap: 20px;
  -webkit-column-count: 2;
  -webkit-column-gap: 20px;
  column-count: 2;
  column-gap: 20px;
}
```

New Features in CSS 3



5

Text Shadow

6

Gradient

7

RGBA: Color, Now with Opacity

8

Transform (Element Rotation)

9

Multicolumn Layout

10

Web Fonts (@font-face)

11

Multiple Backgrounds

```
.shady-text{
  text-shadow: 2px 3px 3px #0a0a0a;
}

.bg-transparent{
  background-color: rgba(33, 44, 55, 0.7);
  color: rgba(33, 44, 55, 0.7);
}

.columns{
  -moz-column-count: 2;
  -moz-column-gap: 20px;
  -webkit-column-count: 2;
  -webkit-column-gap: 20px;
  column-count: 2;
  column-gap: 20px;
}
```

New Features in CSS 3



5

Text Shadow

6

Gradient

7

RGBA: Color, Now with Opacity

8

Transform (Element Rotation)

9

Multicolumn Layout

10

Web Fonts (@font-face)

11

Multiple Backgrounds

12

Animations and Transitions

```
.shady-text{
  text-shadow: 2px 3px 3px #0a0a0a;
}

.bg-transparent{
  background-color: rgba(33, 44, 55, 0.7);
  color: rgba(33, 44, 55, 0.7);
}

.columns{
  -moz-column-count: 2;
  -moz-column-gap: 20px;
  -webkit-column-count: 2;
  -webkit-column-gap: 20px;
  column-count: 2;
  column-gap: 20px;
}
```



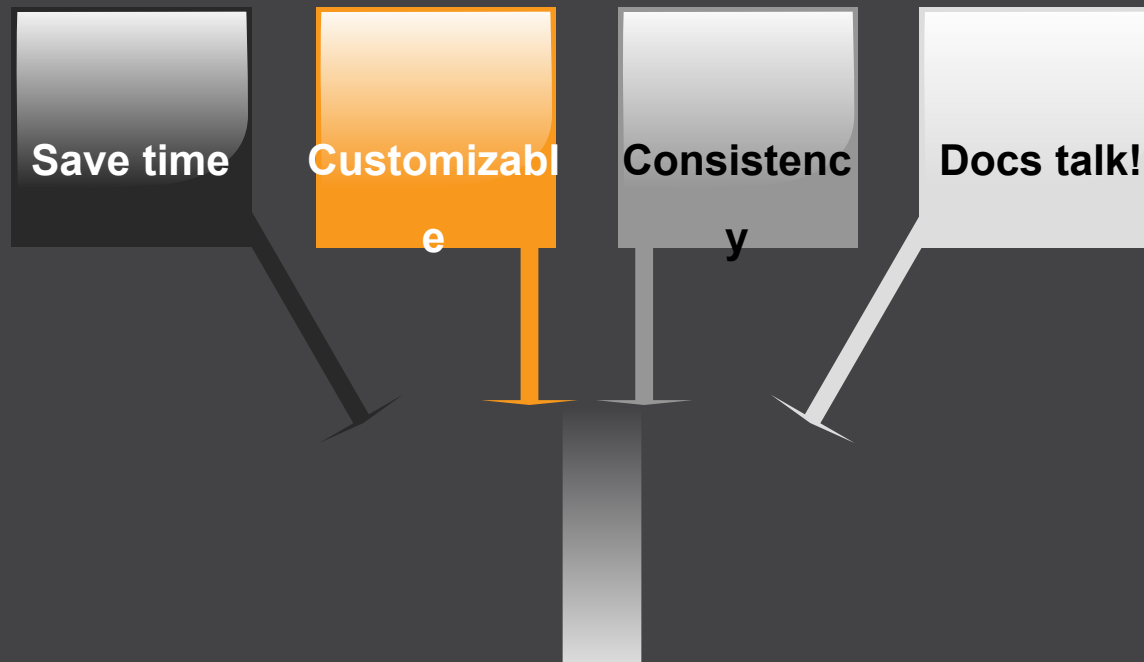


Twitter Bootstrap



Bootstrap

Reasons to Use Twitter Bootstrap



Bootstrap allows for immediate quality work, which makes it great for facilitating efficient, outcome-oriented design communication.

Browser and device support



	Chrome	Firefox	IE	Opera	Safari
Android					
iOS					
Mac OS X					
Windows			8-11		

Browser and device support



	Chrome	Firefox	IE	Opera	Safari
Android					
iOS					
Mac OS X					
Windows			8-11		

Bootstrap is released under the MIT license.

It requires you to include the license and copyright notice in your works.

Precompiled Bootstrap



bootstrap/

css/

- bootstrap.css
- bootstrap.min.css
- bootstrap-theme.css
- 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

Basic template



```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="utf-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <title>Bootstrap Template</title>
  <!-- Bootstrap -->
  <link href="css/bootstrap.min.css" rel="stylesheet">
  <!-- HTML5 shim and Respond.js for IE8 support of HTML5 elements and media queries -->
  <!-- WARNING: Respond.js doesn't work if you view the page via file:// -->
  <!--[if lt IE 9]>
  <script src="https://oss.maxcdn.com/html5shiv/3.7.2/html5shiv.min.js"></script>
  <script src="https://oss.maxcdn.com/respond/1.4.2/respond.min.js"></script>
  <![endif]-->
</head>
<body>
<h1>Hello, world!</h1>
<!-- jQuery (necessary for Bootstrap's JavaScript plugins) -->
<script src="https://ajax.googleapis.com/ajax/libs/jquery/1.11.1/jquery.min.js"></script>
<!-- Include all compiled plugins (below), or include individual files as needed -->
<script src="js/bootstrap.min.js"></script>
</body>
</html>
```

Global settings



HTML5 doctype



Global settings



HTML5 doctype

Mobile first



Global settings



HTML5 doctype

Mobile first

Normalize.css



Global settings



HTML5 doctype

Mobile first

Normalize.css

Containers



Global settings



HTML5 doctype

Mobile first

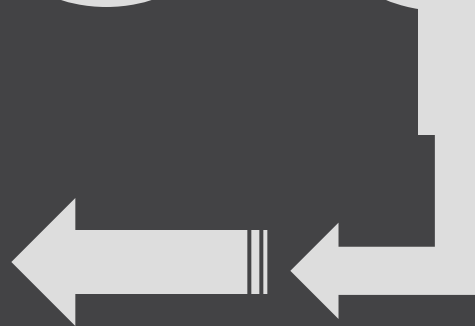
Normalize.css

Containers



```
<!-- fixed width -->
<div class="container">
  ...
</div>

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



Global settings



HTML5 doctype

Mobile first

Normalize.css

Containers

LESS



```
<!-- fixed width -->
<div class="container">
  ...
</div>

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



Grid system (12 columns)



.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 system (12 columns)



	Extra small devices Phones (<768px)	Small devices Tablets (≥768px)	Medium devices Desktops (≥992px)	Large devices Desktops (≥1200px)
Container width	None (auto)	750px	970px	1170px
Class prefix	.col-xs-	.col-sm-	.col-md-	.col-lg-
Column width	Auto	~62px	~81px	~97px

Grid system (12 columns)



	Extra small devices Phones (<768px)	Small devices Tablets (≥768px)	Medium devices Desktops (≥992px)	Large devices Desktops (≥1200px)
Container width	None (auto)	750px	970px	1170px
Class prefix	.col-xs-	.col-sm-	.col-md-	.col-lg-
Column width	Auto	~62px	~81px	~97px

```
/* Small devices (tablets, 768px and up) */
@media (min-width: @screen-sm-min) { ... }

/* Medium devices (desktops, 992px and up) */
@media (min-width: @screen-md-min) { ... }

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

Example: Mobile, tablet, desktop



.col-xs-12 .col-sm-6 .col-md-8

.col-xs-6 .col-md-4

.col-xs-6 .col-sm-4

.col-xs-6 .col-sm-4

.col-xs-6 .col-sm-4

Example: Mobile, tablet, desktop



.col-xs-12 .col-sm-6 .col-md-8

.col-xs-6 .col-md-4

.col-xs-6 .col-sm-4

.col-xs-6 .col-sm-4

.col-xs-6 .col-sm-4

```
<div class="row">
  <div class="col-xs-12 col-sm-6 col-md-8">.col-xs-12 .col-sm-6 .col-md-8</div>
  <div class="col-xs-6 col-md-4">.col-xs-6 .col-md-4</div>
</div>
<div class="row">
  <div class="col-xs-6 col-sm-4">.col-xs-6 .col-sm-4</div>
  <div class="col-xs-6 col-sm-4">.col-xs-6 .col-sm-4</div>
  <!-- Optional: clear the XS cols if their content doesn't match in height -->
  <div class="clearfix visible-xs-block"></div>
  <div class="col-xs-6 col-sm-4">.col-xs-6 .col-sm-4</div>
</div>
```

Offsetting columns



.col-md-4

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

.col-md-3 .col-md-offset-3

.col-md-3 .col-md-offset-3

.col-md-6 .col-md-offset-3

Offsetting columns



.col-md-4

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

.col-md-3 .col-md-offset-3

.col-md-3 .col-md-offset-3

.col-md-6 .col-md-offset-3

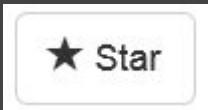
```
<div class="row">
  <div class="col-md-4">.col-md-4</div>
  <div class="col-md-4 col-md-offset-4">.col-md-4 .col-md-offset-4</div>
</div>
<div class="row">
  <div class="col-md-3 col-md-offset-3">.col-md-3 .col-md-offset-3</div>
  <div class="col-md-3 col-md-offset-3">.col-md-3 .col-md-offset-3</div>
</div>
<div class="row">
  <div class="col-md-6 col-md-offset-3">.col-md-6 .col-md-offset-3</div>
</div>
```


Glyphicons



★ Star

Glyphicons


























```
<button type="button" class="btn btn-default btn-lg">  
  <span class="glyphicon glyphicon-star" aria-hidden="true"></span> Star  
</button>
```

Glyphicons



★ Star

```
<button type="button" class="btn btn-default btn-lg">  
  <span class="glyphicon glyphicon-star" aria-hidden="true"></span> Star  
</button>
```

 glyphicon glyphicon- asterisk	 glyphicon glyphicon-plus	 glyphicon glyphicon-euro	 glyphicon glyphicon-min us	 glyphicon glyphicon-clou d	 glyphicon glyphicon-en velope	 glyphicon glyphicon-p encil	 glyphicon glyphicon-glas s
 glyphicon glyphicon-mus ic	 glyphicon glyphicon-se arch	 glyphicon glyphicon-hea rt	 glyphicon glyphicon-star	 glyphicon glyphicon-s tar-empty	 glyphicon glyphicon-us er	 glyphicon glyphicon-fi lm	 glyphicon glyphicon-t h-large
 glyphicon glyphicon-th	 glyphicon glyphicon-t h-list	 glyphicon glyphicon-ok	 glyphicon glyphicon-r emove	 glyphicon glyphicon-z oom-in	 glyphicon glyphicon-z oom-out	 glyphicon glyphicon-o ff	 glyphicon glyphicon-s ignal

Components



- Dropdowns
- Button groups
- Button dropdowns
- Input groups
- Navs
- Navbar
- Breadcrumbs
- Pagination
- Labels
- Badges
- Jumbotron
- Page header
- Thumbnails
- Alerts
- Progress bars
- Media object
- List group
- Panels
- Responsive embed
- Wells

Java Script solutions



- Transitions
- Modal
- Dropdown
- Scrollspy
- Tab
- Tooltip
- Popover
- Alert
- Button
- Collapse
- Carousel

Java Script solutions



- Transitions
- Modal
- Dropdown
- Scrollspy
- Tab
- Tooltip
- Popover
- Alert
- Button
- Collapse
- Carousel

Plugins can be included individually (using Bootstrap's individual *.js files), or all at once (using bootstrap.js or the minified bootstrap.min.js).

Just bootstrap it and go!

