Bootstrap

Лекция 7

Что это?

Фреймворк для адаптивных веб-приложений
HTML и CSS шаблоны, JS модули.

Сейчас изучаем Bootstrap 4 (2018)
Bootstrap 5 (2021) – числый JS вместо jQuery,
всякие мелкие улучшения.

React Bootstrap – отдельный модуль.

Что входит?

- Лейауты
- Формы, кнопки
- Таблички
- Навигационные меню
- Карусельки
- Модальные окна
- Типографика

И всё сразу автоматически – адаптивное

Подключение

CDN

<link rel="stylesheet"
href="https://cdn.jsdelivr.net/npm/bootstrap@4.6.1/dist/css
/bootstrap.min.css"**>**
<script
src="https://cdn.jsdelivr.net/npm/jquery@3.6.0/dist/jquery.s
lim.min.js"**></script>**
<script
src="https://cdn.jsdelivr.net/npm/popper.js@1.16.1/dist/um
d/popper.min.js"**></script>**
<script
src="https://cdn.jsdelivr.net/npm/bootstrap@4.6.1/dist/js/b
ootstrap.bundle.min.js"**></script>**

Автономно

https://getbootstrap.com/ - скачиваем файлы и
размещаем на своем сайте

С чего все начинаем

1. Строгий HTML5, добавляем DOCTYPE

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="utf-8">
  </head>
</html>
```
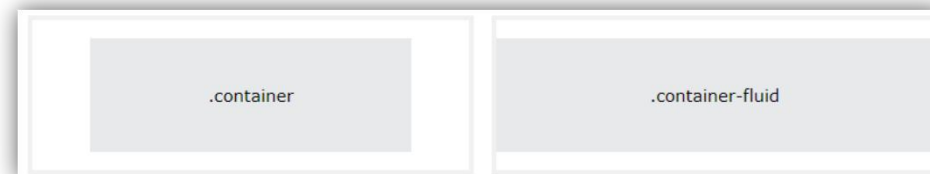
2. Параметры для адаптивности

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

С чего все начинаем

3. Добавляем контейнер

```html
<div class="container">
  <h1>My First Bootstrap Page</h1>
  <p>This is some text.</p>
</div>
```

	Extra small <576px	Small ≥576px	Medium ≥768px	Large ≥992px	Extra large ≥1200px
max-width	100%	540px	720px	960px	1140px

.container	.container-fluid

Float | Clearfix

Обычные: классы .float-right, .float-left, .clearfix

Условные, адаптивные:
. float-sm-right

sm >=576px, md >=768px, lg >=992px, xl >=1200px


```
<div class="container">
  <div class="clearfix">
    <div class="float-sm-right">Float right on small screens or wider</div><br>
    <div class="float-md-right">Float right on medium screens or wider</div><br>
    <div class="float-lg-right">Float right on large screens or wider</div><br>
    <div class="float-xl-right">Float right on extra large screens or wider</div><br>
    <div class="float-none">Float none</div>
  </div>
</div>
```

Шаблонные размеры

.w-25 == width: 25%

.mw-50 == max-width: 50%

.h-75 == height: 75%

.mh-100 == max-height: 100%

```html
<div class="w-25 bg-warning">Width 25%</div>
<div class="w-50 bg-warning">Width 50%</div>
<div class="w-75 bg-warning">Width 75%</div>
<div class="w-100 bg-warning">Width 100%</div>
<div class="mw-100 bg-warning">Max Width 100%</div>
```

Width 25%

Width 50%

Width 75%

Width 100%

Max Width 100%

Шаблонные отступы

m - for classes that set `margin`

p - for classes that set `padding`

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`

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

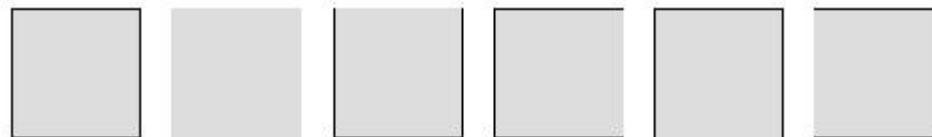auto - for classes that set the `margin` to auto

n1 - sets `margin` to `-.25rem` (-4px if font-size is 16px)

Шаблонные границы

```html
<span class="border"></span>
<span class="border border-0"></span>
<span class="border border-top-0"></span>
<span class="border border-right-0"></span>
<span class="border border-bottom-0"></span>
<span class="border border-left-0"></span>
```

```html
<span class="border border-primary"></span>
<span class="border border-secondary"></span>
<span class="border border-success"></span>
<span class="border border-danger"></span>
<span class="border border-warning"></span>
<span class="border border-info"></span>
<span class="border border-light"></span>
<span class="border border-dark"></span>
<span class="border border-white"></span>
```

Шаблонные цвета

.bg-* – фон, .text-* - текст
*-primary, *-success, *-info, *-warning, *-danger,
*-secondary, *-dark, *-light

Тени: shadow-none, shadow-sm,
shadow, shadow-lg

This text is important.

This text indicates success.

This text represents some information.

This text represents a warning.

This text represents danger.

Secondary background color.

Dark grey background color.

Light grey background color.

Таблицы

.table-striped .table-bordered .table-borderless
.table-hover .table-dark
.table-* .thead-* (* == primary, success, info, warning, danger, active, secondary, light, dark)

.table-responsive-* (* == пусто, sm, md, lg, xl)

Картинки

- **Оформление краёв:** .rounded .rounded-circle .img-thumbnail

- **Адаптивный размер:** .img-fluid
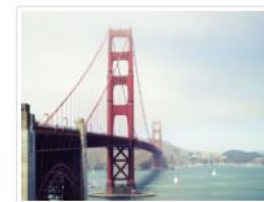
Типографика

<h1> - <h6> + .display-* (* == 1..4)

Особые семантические значения текста:
<small>, <mark>, <abbr>, <blockquote>, <code>,
<kbd>, <pre>

Display 1
Display 2
Display 3
Display 4

```
.font-weight-bold
```
```
.font-weight-bolder
```
```
.font-italic
```
```
.font-weight-light
```
```
.font-weight-lighter
```
```
.font-weight-normal
```
```
.lead
```
```
.small
```

Кнопки

<button type="button" class="btn btn-primary btn-lg">Large</button>

.btn-*   .btn-outline-* (* == primary, secondary, success, info, warning, …)

Формы

```html
<form action="/action_page.php">
  <div class="form-group">
    <label for="email">Email address:</label>
    <input type="email" class="form-control" placeholder="Enter email" id="email">
  </div>
  <div class="form-group">
    <label for="pwd">Password:</label>
    <input type="password" class="form-control" placeholder="Enter password" id="pwd">
  </div>
  <div class="form-group form-check">
    <label class="form-check-label">
      <input class="form-check-input" type="checkbox"> Remember me
    </label>
  </div>
  <button type="submit" class="btn btn-primary">Submit</button>
</form>
```

Email:

Enter email

Password:

Enter password

☐ Remember me

Submit

Email: Enter email   Password: Enter password   ☐ Remember me Submit

Поля ввода

Name:

йцукен

Comment:

☐ Option 1 ☐ Option 2 ☐ Option 3

○ Option 1 ○ Option 2 ○ Option 3

Select list (select one):

1
1
2
3
4

Дополнительная литература

1. https://www.w3schools.com/bootstrap4/

1. https://getbootstrap.com/