4. Breakpoints va Containers

Reja:

▼ **Breakpoints**

💡 **Breakpoints** - qurilmamizning kengligiga qarab veb sahifamiz o'z kontenti o'zgartiruvchi nuqtalar. Bu nuqtalarda, veb sahifamiz odatda boshqa ko'rinishga o'tib, qurilmaga moslashadi. Bootstrap o'zining breakpoint qiymatlariga ega

❗ Bootstrap freymvorki Mobile-first yondashuv asosida qurilgan bo'lib, uning yordamida birinchi kichik o'lchamga ega bo'lgan qurilmalarga veb sahifa yaratib olinib, keyin esa kattaroq o'lchamga ega bo'lgan qurilmalar uchun moslanadi

Mavjud "breakpoint"lar

Aa Breakpoint	≡ Class infix	≡ O'lchami
X-small	Mavjud emas	**< 576px**
Small	sm	**≥ 576px**
Medium	md	**≥ 768px**
Large	lg	**≥ 992px**
Extra large	xl	**≥ 1200px**
Extra extra large	xxl	**≥ 1400px**

Media queries

- **min-width yordamida (mobile-first)**

```
// X-Small devices (portrait phones, less than 576px)
// No media query for `xs` 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) { ... }

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

// XX-Large devices (larger desktops, 1400px and up)
@media (min-width: 1400px) { ... }
```

- **max-width yordamida**

```
// X-Small devices (portrait phones, less than 576px)
@media (max-width: 575.98px) { ... }

// Small devices (landscape phones, less than 768px)
@media (max-width: 767.98px) { ... }
```

```
// Medium devices (tablets, less than 992px)
@media (max-width: 991.98px) { ... }

// Large devices (desktops, less than 1200px)
@media (max-width: 1199.98px) { ... }

// X-Large devices (large desktops, less than 1400px)
@media (max-width: 1399.98px) { ... }

// XX-Large devices (larger desktops)
// No media query since the xxl breakpoint has no upper bound on its width
```
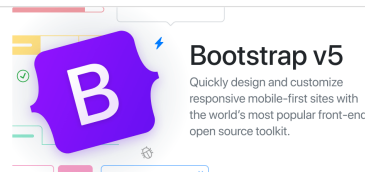
Breakpoints

Breakpoints are the building blocks of responsive design. Use them to control when your layout can be adapted at a particular viewport or device size. Use media queries to architect your CSS by breakpoint. Media queries are a feature of CSS that allow you to conditionally apply styles based

B https://getbootstrap.com/docs/5.0/layout/breakpoints/

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▼ **Containers**

💡 **Container -** Bootstrapning asosiy qismlaridan biri bo'lib, u elementlarni o'zida saqlash, surish va markazga joylashtirish uchun ishlatiladi. Bootstrapning Grid tizimini ishlatish uchun "container"dan foydalanish majburiy hisoblaniladi

3 xil turi mavjud:

- **container** - har bir breakpoint uchun max-width xossasiga qiymatini belgilab beradi

```
<style>
  .red-container {
    background-color: red;
    color: white;
    margin-top: 50px;
    padding: 20px;
    border-radius: 5px;
  }
</style>

-------------------

<div class="container red-container">
  <h1>What is Lorem Ipsum?</h1>
  <p>
    Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the industry's standard dummy t
  </p>
</div>
```

- **container-fluid** - hamma breakpoint uchun width xossasiga 100% qiymatini belgilab beradi

```
<style>
  .red-container {
    background-color: red;
    color: white;
    margin-top: 50px;
    padding: 20px;
    border-radius: 5px;
  }
</style>

-------------------

<div class="container-fluid red-container">
  <h1>What is Lorem Ipsum?</h1>
  <p>
    Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the industry's standard dummy t
  </p>
</div>
```

- **container-{breakpoint} -** ko'rsatilgan "breakpoint"gacha width xossasi uchun 100% qiymatini belgilab beradi

```
<style>
  .red-container {
    background-color: red;
    color: white;
    margin-top: 50px;
    padding: 20px;
    border-radius: 5px;
  }
</style>

------------------
<div class="container-sm red-container">.container-sm</div>
<div class="container-md red-container">.container-md</div>
<div class="container-lg red-container">.container-lg</div>
<div class="container-xl red-container">.container-xl</div>
<div class="container-xxl red-container">.container-xxl</div>
```

"Max-width"ni breakpointlar bo'yicha o'zgarishi

	Extra small <576px	Small ≥576px	Medium ≥768px	Large ≥992px	X-Large ≥1200px	XX-Large ≥1400px
.container	100%	540px	720px	960px	1140px	1320px
.container—sm	100%	540px	720px	960px	1140px	1320px
.container—md	100%	100%	720px	960px	1140px	1320px
.container—lg	100%	100%	100%	960px	1140px	1320px
.container—xl	100%	100%	100%	100%	1140px	1320px
.container—xxl	100%	100%	100%	100%	100%	1320px
.container—fluid	100%	100%	100%	100%	100%	100%

Hamma containerlar uchun misol

```
<style>
  .red-container {
    background-color: red;
    color: white;
    margin-top: 50px;
    padding: 20px;
    border-radius: 5px;
  }
</style>

------------------
<div class="container red-container">.container</div>
<div class="container-sm red-container">.container-sm</div>
<div class="container-md red-container">.container-md</div>
<div class="container-lg red-container">.container-lg</div>
<div class="container-xl red-container">.container-xl</div>
<div class="container-xxl red-container">.container-xxl</div>
<div class="container-fluid red-container">.container-fluid</div>
```

Containerlar qachon ishlatilinadi?

https://themes.getbootstrap.com/preview/?theme_id=68063

Containers

Containers are the most basic layout element in Bootstrap and are required when using our default grid system. Containers are used to contain, pad, and (sometimes) center the content within them. While containers can be nested, most layouts do not require a nested container.

B https://getbootstrap.com/docs/5.0/layout/containers/

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