



Bootstrap 5

Agenda

- Czym jest Bootstrap?
- Jakie są różnice między Bootstrapem 4 a Bootstrapem 5?
- Instalacja / Konfiguracja
- Grid System
- Komponenty

Czym jest Bootstrap?

- Najbardziej popularny Front-Endowy framework
- Wykorzystywany do budowania stron i aplikacji („Mobile first”)
- HTML / CSS / JavaScript

Czemu warto używać Bootstrapa?

- Zwiększa prędkość wytwarzania oprogramowania
- Zapewnia responsowność
- Chroni przed powtarzalnością
- Zwiększa spójność
- Zapewnia zgodność z wieloma przeglądarkami
- Ma ogromną społeczność
- Łatwość dostosowania (customizacji)

Co nowego w
Bootstrap 5 ?



Co nowego w Bootstrap 5 (w porównaniu do Bootstrap 4)?

- **jQuery nie jest już wymagane** (aczkolwiek dalej go można używać)
- Porzucono wsparcie dla **Internet Explorera**
- **Dodano wsparcie dla RTL**
- Zminimalizowano wykorzystanie JS w zamian za **większe użycie CSS (CSS custom properties)**
- Praktycznie każda opcja jest dostępna jako **data-attribute**

Co nowego w Bootstrap 5 (w porównaniu do Bootstrap 4)?

- Ulepszony **Grid system (siatka)** oraz **modularność**
- Nowe komponenty (offcanvas)/helpers/narzędzia/wariacje/biblioteki
- Niektóre elementy usunięto (np. Jumbotron)
- Ulepszone **Icons (SVG Icon Library)**

Co nowego w Bootstrap 5 (w porównaniu do Bootstrap 4)?

- Ulepszony **Grid system (siatka)** oraz **modularność**
- Nowe komponenty (offcanvas)/helpers/narzędzia/wariacje/biblioteki
- Niektóre elementy usunięto (np. Jumbotron)
- Ulepszone **Icons (SVG Icon Library)**

Bootstrap 5 - Grid

Grid

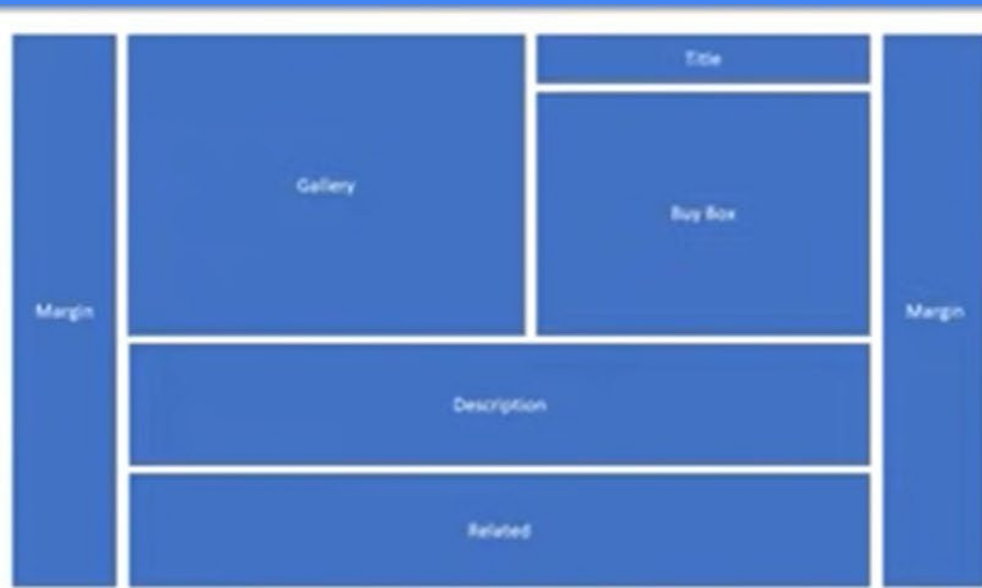
Bootstrapowy grid pozwala użytkownikom tworzyć responsywne układy strony.

Wykorzystujemy go aby zmieniać ułożenie elementów na stronie w zależności od rozmiaru ekranu jakiego używa użytkownik naszej strony/aplikacji.

Przykład:

Korzystając z grida możemy sprawić aby ta sama aplikacja wyglądała inaczej na komputerze (prawy górny róg) i na urządzeniach mobilnych (prawy dolny)

Komputer:



Tablet /
urządzenie
mobilne:



Breakpoints

Breakpoint	Class infix	Dimensions
X-Small	<i>None</i>	<576px
Small	<i>sm</i>	≥576px
Medium	<i>md</i>	≥768px
Large	<i>lg</i>	≥992px
Extra large	<i>xl</i>	≥1200px
Extra extra large	<i>xxl</i>	≥1400px

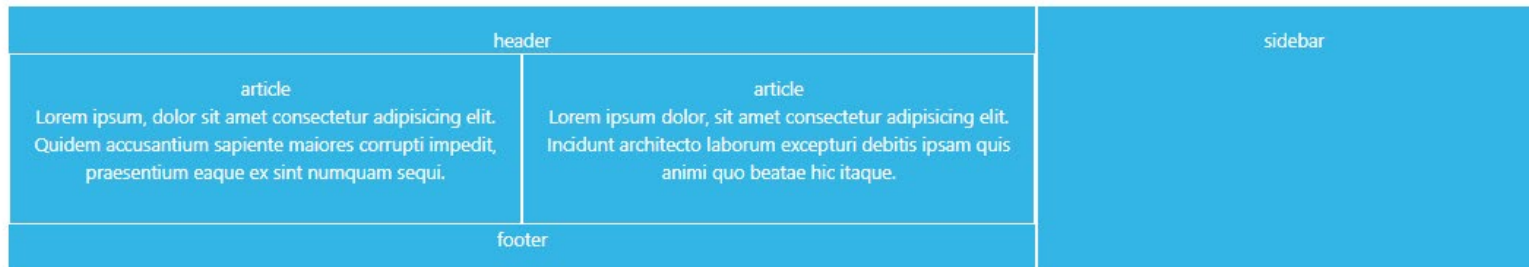
Grid przykłady

Grid system

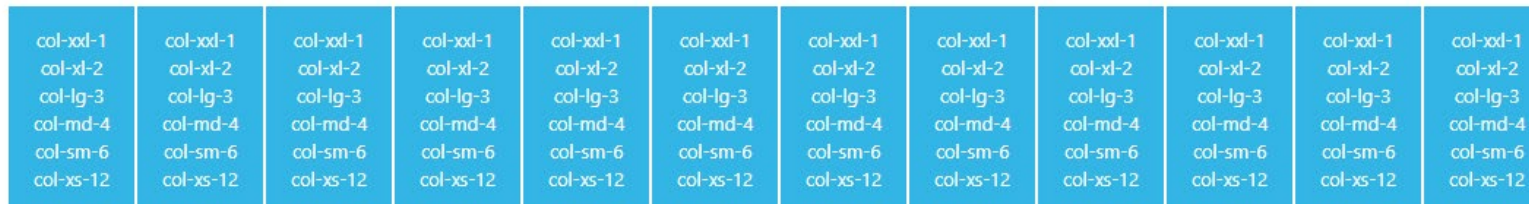
Example 1



Example 2



Example 3



Buttons

Buttons

Examples

Bootstrap includes several predefined button styles, each serving its own semantic purpose, with a few extras thrown in for more control.



```
<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

Buttons

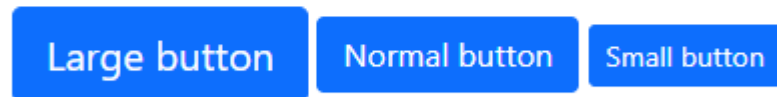
Buttons



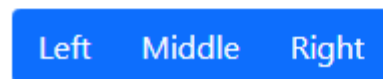
Outline



Sizing



Button groups



Cards & panels

Cards & panels

Card colors:

Header

Primary card title

Some quick example text to build on the card title and make up the bulk of the card's content.

Header

Secondary card title

Some quick example text to build on the card title and make up the bulk of the card's content.

Card borders:

Header

Primary card title

Some quick example text to build on the card title and make up the bulk of the card's content.

Header

Secondary card title

Some quick example text to build on the card title and make up the bulk of the card's content.

Typography

Typography

Typography

Heading

h1 heading

h2 heading

h3 heading

h4 heading

h5 heading

h6 heading

Bootstrap Heading

h1. Bootstrap heading

h2. Bootstrap heading

h3. Bootstrap heading

h4. Bootstrap heading

h5. Bootstrap heading

h6. Bootstrap heading

Typography

Displays

Display 1

Display 2

Display 3

Display 4

Display 5

Display 6

Text utilities:

Inline text elements

You can use the mark tag to highlight text.

~~This line of text is meant to be treated as deleted text.~~

~~This line of text is meant to be treated as no longer accurate.~~

This line of text is meant to be treated as an addition to the document.

Typography

Blockquote:

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Integer posuere erat a ante

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Integer posuere erat a ante.

— *Someone famous in Source Title*

Alignment

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Integer posuere erat a ante.

— *Someone famous in Source Title*

Lists:

- 1
- 2
- 3
 - a
 - b
 - c

Lists unstyled:

- 1
- 2
- 3
 - a
 - b
 - c

Inline:

Item 1 Item 2 Item 3

Utilities

Utilities

Utilities

Lorem ipsum dolor sit amet, consectetur adipisicing elit. Molestiae et, delectus autem possimus est repellat doloribus, odit, quam voluptates suscipit architecto rem numquam! Amet repudiandae voluptates consequatur, nulla excepturi illo.

Lorem ipsum dolor sit amet consectetur adipisicing elit. Dolorum, laborum saepe delectus corrupti ad nostrum odio, molestiae voluptatibus unde ipsam amet. Aut placeat dolorem itaque nam optio laboriosam perspiciatis consectetur.

Centered element

Lorem ipsum dolor sit amet, consectetur adipisicing elit. Molestiae et, delectus autem possimus est repellat doloribus, odit, quam voluptates suscipit architecto rem numquam! Amet repudiandae voluptates consequatur, nulla excepturi illo.

Lorem ipsum dolor sit amet consectetur adipisicing elit. Dolorum, laborum saepe delectus corrupti ad nostrum odio, molestiae voluptatibus unde ipsam amet. Aut placeat dolorem itaque nam optio laboriosam perspiciatis consectetur.

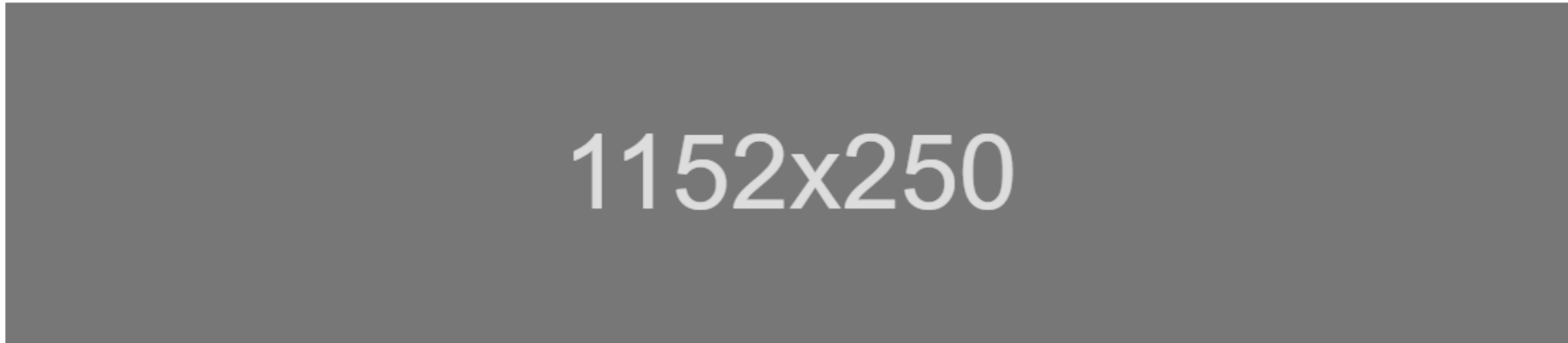
Centered element

Responsive images

Responsive images

Responsive images

Images in Bootstrap are made responsive with `.img-fluid`. `max-width: 100%`; and `height: auto`; are applied to the image so that it scales with the parent element.



```

```

Copy

SVG images and IE 10

In Internet Explorer 10, SVG images with `.img-fluid` are disproportionately sized. To fix this, add `width: 100% \9;` where necessary. This fix improperly sizes other image formats, so Bootstrap doesn't apply it automatically.

Responsive images

Aligning images

Align images with the [helper float classes](#) or [text alignment classes](#). **Block**-level images can be centered using the [.mx-auto](#) margin utility class.



```
  

```

Copy



Tables

Alerts / Toast

Alerts / Toast

Alerts

A simple primary alert—check it out!

A simple secondary alert—check it out!

A simple success alert—check it out!

A simple danger alert—check it out!

A simple warning alert—check it out!

A simple info alert—check it out!

A simple light alert—check it out!

A simple dark alert—check it out!

Dismissing

Holy guacamole! You should check in on some of those fields below.



Carousel

Carousel

Carousel



Icons

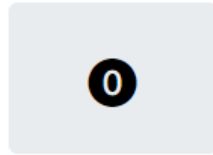
Icons

Icons

Start typing to filter...



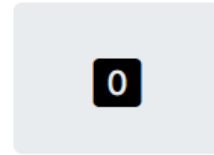
0-circle



0-circle-fill



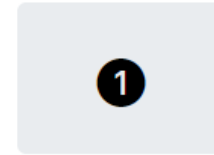
0-square



0-square-fill



1-circle



1-circle-fill



1-square



1-square-fill



123



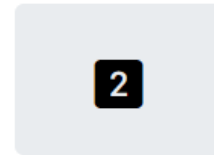
2-circle



2-circle-fill



2-square



2-square-fill



3-circle



3-circle-fill



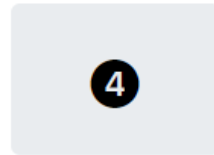
3-square



3-square-fill



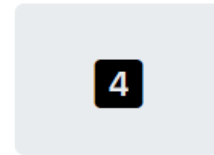
4-circle



4-circle-fill



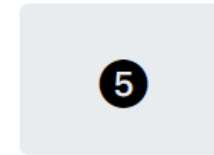
4-square



4-square-fill



5-circle



5-circle-fill



5-square



5-square-fill



6-circle



6-circle-fill



6-square



6-square-fill



7-circle



7-circle-fill



7-square