



Akademia Developera – edycja FrontDev

(Nieco bardziej) zaawansowany CSS



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Co już poznaliśmy

- składnia css
- osadzanie styli w HTML
- selektory
- pseudo-klasy
- pseudo-elementy
- priorytety stylów
- CSS box model
- deklarowanie kolorów
- właściwość display
- właściwość position
- pozycjonowanie (float)

Co poznamy dziś?

- jednostki miary
- media queries, calc()
- flexbox
- prefixy
- animacjetransformacje
- konwencje CSS

Jednostki miary



px

```
.container {
    height: 100px;
}
.box {
    width: 50%;
    height: 50%;
    display: inline-block;
}
```

.box height: 100px;

em

```
.box {
    width: 10em;
    font-size: 20px;
}
```

.box

400px;

em - realny przykład

```
button {
   height: 60px;
   width: 300px;
   font-size: 30px;
}
```

Button

rem

```
.box {
    width: 10rem;
    font-size: 12px;
}
```

.box

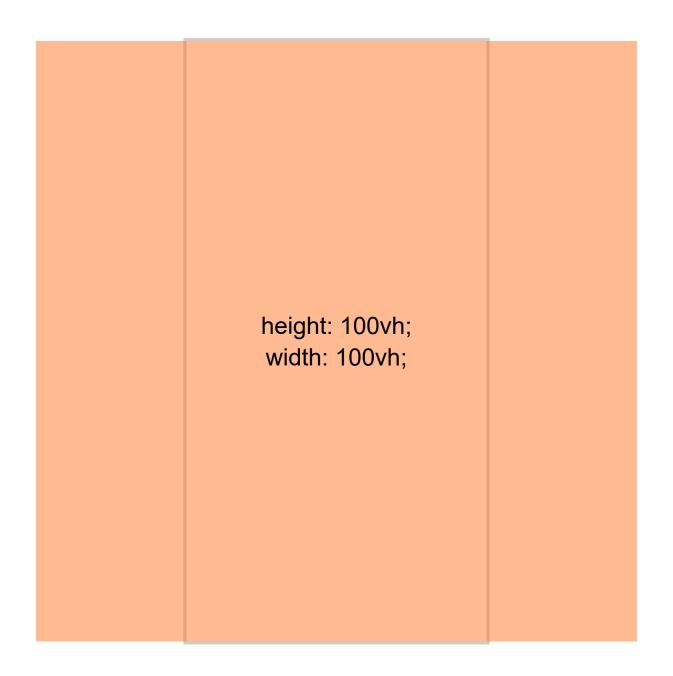
vh, vw

```
div {
    width: 50vw;
    height: 50vh;
}
```

Zagadka



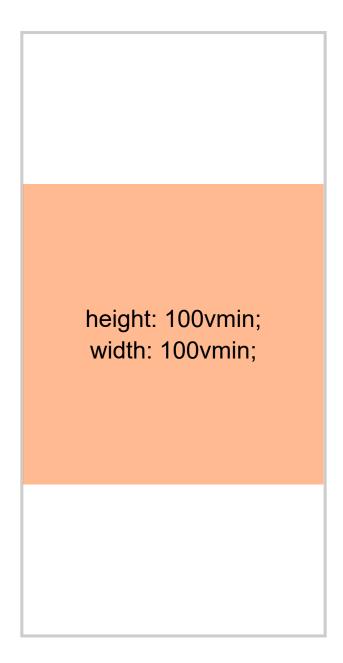




vmin, vmax

```
div {
    width: 50vmin;
    height: 50vmax;
}
```





pozostałe jednostki

- cm
- in
- mm
- pc
- pt
- ex

Przydatne linki:

https://css-tricks.com/the-lengths-of-css

Responsive Web Design



dequeUniversity

Learn about Accessibility Testing Tools Discussion Forum & Mailing List Blog User Guides

This is an Example of a Non-Responsive Design



This is the content for this page. This is a lot of text just to fill the space. I will repeat it over and over again because that will fill up the space with more words, which is what I want to do. This is the content for this page. This is a lot of text just to fill the space. I will repeat

Accessibility Topics

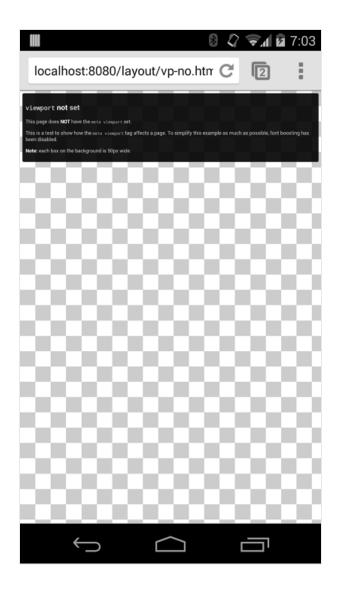
- Types of disabilities
 - Blindness
 - Deafblindness
 - Colorblindness
 - Low vision
 - Deafness
 - Dexterity/Motor
 - Cognitive
 - Seizure
- Assistive technologies

Bootstrap

Build responsive, mobile-first projects on the web with the world's most popular front-end component library.

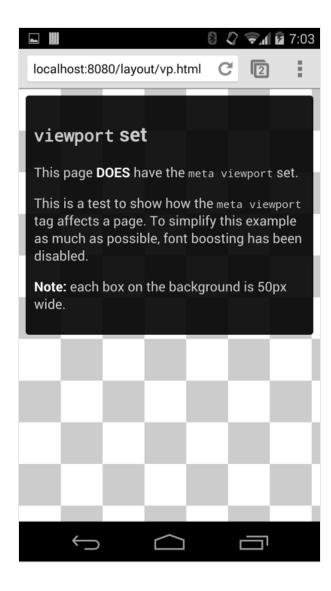
Bootstrap is an open source toolkit for developing with HTML, CSS, and JS. Quickly prototype your ideas or build your entire app with our Sass variables and mixins, responsive grid system, extensive prebuilt components, and powerful plugins built on iQuery





META TAG VIEWPORT

<meta name="viewport" content="width=device"</pre>



Media queries

Jak można użyć media queries

1. W pliku css lub tagu <style>

```
@media (max-width: 768px) {
    /* your css goes here */
}
```

Jak można użyć media queries

2. Przy linkowaniu pliku css

```
<link media="(max-width: 768px)" href="table")</pre>
```

Jak można użyć media queries

3. Przy imporcie w css

```
@import url("tablet.css") (max-width: 768px
```

Inne użyteczne media queries

```
@media screen and (max-width: 768px) {}
@media print {}
@media (orientation: landscape) {}
@media (orientation: portrait) {}
@media (max-width: 800px) and (min-width: 400px)
            (min-width: 1920px) {}
```

Pytanie do publiczności:

```
@media screen and (max-width: 900px)
          and (min-width: 600px), (min-width: 1100px)
          /* styles */
}
```

Przydatne linki

https://developer.mozilla.org/pl/docs/Mozilla/Mobile/Viewport_meta_tag

https://developer.mozilla.org/pl/docs/Web/CSS/Media_Queries/Using_media_queries

https://css-tricks.com/snippets/css/media-queries-for-standard-devices

Jak dodać dwie wartości w CSS?

calc()



```
.box {
    width: calc(100px + 100px)
}
```

.box

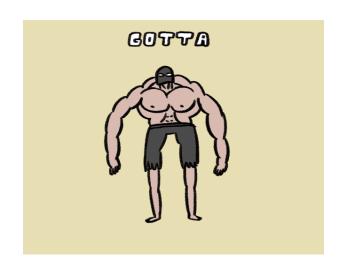
300px - stała szerokość

50% - stała szerokość

Przydatne linki:

https://developer.mozilla.org/en-US/docs/Web/CSS/calc

Flexbox



5. Yellow

1. Red

2. Green

3. Pink

4. Blue

Flex-direction

```
.container {
    display: flex;
    flex-direction: column;
}
```

1. Red
2. Green
3. Pink
4. Blue
5. Yellow

Order

```
.item:nth-child(5) {
    order: -1;
}
.item:nth-child(2) {
    order: 1;
}
```

2. Green

8.4

5. Yellow

3. Pink

4. Blue

1. Red

FLEX-START

```
.container {
    display: flex;
    justify-content: flex-start;
}
```

1. Red

2. Green

3. Pink

4. Blue

5. Yellow

Justify-content CENTER

```
.container {
    display: flex;
    justify-content: center;
}
```

3. Pink

4. Blue

5. Yellow

2. Green

1. Red

8.6

FLEX-END

```
.container {
    display: flex;
    justify-content: flex-end;
}
```

1. Red

2. Green

3. Pink

4. Blue

5. Yellow

SPACE-BETWEEN

```
.container {
    display: flex;
    justify-content: space-between;
}
```

1. Red

2. Green

3. Pink

4. Blue

5. Yellow

SPACE-AROUND

```
.container {
    display: flex;
    justify-content: space-around;
}
1. Red
2. Green
3. Pink
4. Blue
5. Yellow
```

Align-items

ALIGN-STRETCH

```
.container {
    display: flex;
    height: 200px;
    align-items: align-stretch;
}
```

1. Red
2. Green
3. Pink
4. Blue
5. Yellow

Align-items

CENTER

```
.container {
    display: flex;
    height: 200px;
    align-items: center;
}
```

1. Red 2. Green 3. Pink 4. Blue 5. Yellow

Align-self

```
.container {
    display: flex;
    height: 200px;
    align-items: flex-end;
}
.item:nth-child(3) {
    align-self: stretch;
}
```

Margin

```
.container {
    display: flex;
}
.item:nth-child(3) {
    margin-left: auto;
}
```

1. Red 2. Green 3. Pink 4. Blue 5. Yellow

Margin

```
.container {
   display: flex;
   height: 200px;
.item:nth-child(1) {
   margin-right: auto;
.item:nth-child(3) {
   margin-left: auto;
```

Margin

```
.container {
    display: flex;
    height: 200px;
}
.item {
    margin: auto;
}
```

1. Red

Flex-grow

```
.container {
    display: flex;
}
.item:nth-child(4) {
    flex-grow: 1;
}
```

1. Red2. Green3. Pink4. Blue5. Yellow

Flex-grow

```
.container {
   display: flex;
.item:nth-child(4) {
   flex-grow: 1;
.item:nth-child(5) {
   flex-grow: 2;
```

1. Red 2. Green 3. Pink 4. Blue 5. Yellow

Flex-shrink

```
.container {
   display: flex;
.item {
   flex-grow: 1;
   flex-basis: 20%;
.item:nth-child(1) {
   flex-shrink: 1;
```

Przydatne linki:

https://css-tricks.com/snippets/css/a-guide-to-flexbox

Prefixy



```
.box {
   -webkit-text-stroke: 2px red;
}
```

Example

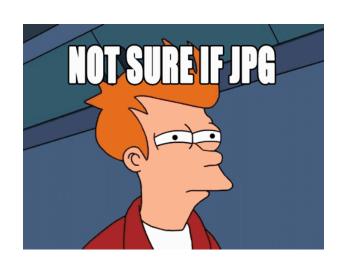
```
.box {
    -webkit-text-stroke: 2px red;
    -moz-text-stroke: 2px red;
    -ms-text-stroke: 2px red;
    -o-text-stroke: 2px red;
}
```

Example

Przydatne linki:

https://developer.mozilla.org/en-US/docs/Glossary/Vendor_Prefix

Animacje



Transition

```
.box {
    background: white;
    transition: 1s ease background;
}
.box:hover {
    background: #ff7726;
}
```

Example

@keyframes & animation

```
@keyframes first-animation {
    from {background-color: #FFFFFF;}
    to {background-color: #ff7726;}
}
.box:hover {
    background-color: #FFFFFF;
    animation: 2s first-animation 2;
}
```

@keyframes & animation

```
@keyframes second-animation {
          0% {background-color: #FFFFFF;}
          50% {background-color: #ff7726;}
          100% {background-color: #FFFFFF;}
}
.box:hover {
          background-color: #FFFFFF;
          animation: 2s second-animation 2;
}
```

Ograniczenia

- display
- visibility
- position
- etc...

Przydatne linki:

https://developer.mozilla.org/en-US/docs/Web/CSS/CSS_Transitions/Using_CSS_transitions

https://css-tricks.com/almanac/properties/a/animation

Transformacje



rotate(angle)

```
.box {
    transform: rotate(45deg);
}
```



translate(x, y)

```
.box {
    transform: translate(50px, 50px);
}
Example
```

scale(x, y)

```
.box {
   transform: scale(0.5, 0.75);
}
Example
```

skew(x, y)

```
.box {
   transform: skew(5deg, 5deg);
}
Example
```

3D

rotate3d(x, y, z)

```
.box {
    transform: rotate3d(1,1,0,45deg);
}
```

translate3d(x, y, z)

Example

scale3d(x, y, z)

```
.box {
    transform: rotate3d(1, 1, 0, 45deg)
        scale3d(0.5, 0.75, 1);
}
```



transform-origin

```
.box {
    transform: rotate(45deg);
    transform-origin: 0 0;
}
```



transform-style



Przydatne linki:

https://css-tricks.com/almanac/properties/t/transform

https://css-tricks.com/almanac/properties/t/transform-origin

https://css-tricks.com/almanac/properties/t/transform-style

Problem:

- Pracujesz nad projektem z innymi programistami,
- Masz zmienic coś w CSS napisanym przez kolegę, ktory od dawna z Wami nie pracuje,
- Nazywał on elementy (selektory) zupełnie inaczej niż Ty,
- Marnujesz czas na próbie zrozumienia "co autor miał na myśli" i który selektor za co odpowiada.

Jak można tego uniknąć?

Konwencje CSS



BEM

http://getbem.com

Block-Element-Modifier

```
.block {
   background: #DDDDDD;
.block--modifier {
   background: green;
.block element {
   background: #ff7726
.block element--modifier {
   background: red;
```

Element Element

Element modified

Element modified

Block-Element-Modifier

```
<div class="block">
    <div class="block element">
       Element
   </div>
   <div class="block element block element--modifier">
       Element modified
   </div>
</div>
<div class="block block--modifier">
    <div class="block element">
       Element
   </div>
   <div class="block element block element--modifier">
       Element modified
   </div>
</div>
```

SUIT CSS

http://suitcss.github.io

SUIT CSS: Utilities

```
u-[sm-|md-|lg-]utilityName
```

SUIT CSS: Components

[namespace-]ComponentName[-descendentName][--modifierNa

SUIT CSS: namespace

```
.pgs-Button { /* ... */ }
.pgs-Tabs { /* ... */ }
```

SUIT CSS: ComponentName

SUIT CSS: ComponentName--modifierName

```
/* Core button */
.Button { /* ... */ }
/* Default button style */
.Button--default { /* ... */ }
```

<button class="Button Button--default" type="bu"</pre>

SUIT CSS: ComponentName-descendentName

SUIT CSS: ComponentName.is-stateOfComponent

Po co używac konwencji?

- ustalony sposób "nazywania" elementów w CSS
- reużywalne elementy
- mniej kosztowne utrzymanie kodu

Pytania?



Wprowadzenie do PHP

27.03.2018, 18:00 • Uniwersytet Rzeszowski, Budynek A0, sala 127

softwaretalks.pl/wydarzenia/akademia-developera-wprowadzenie-php



Dziękuję za uwagę!

Odwiedź:

www.facebook.com/AkademiaDeveloperaRzeszow

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