

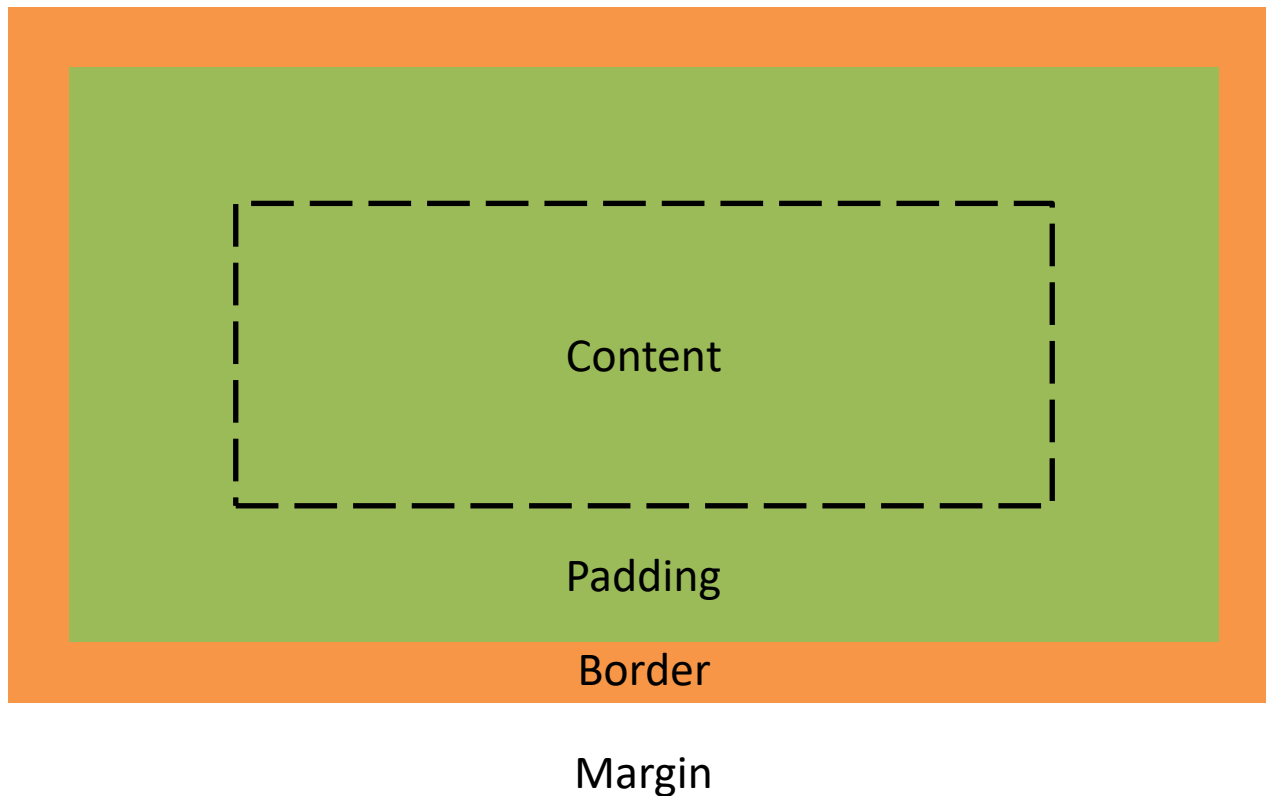
# Zaawansowany CSS

## Laboratorium 2

# Plan prezentacji

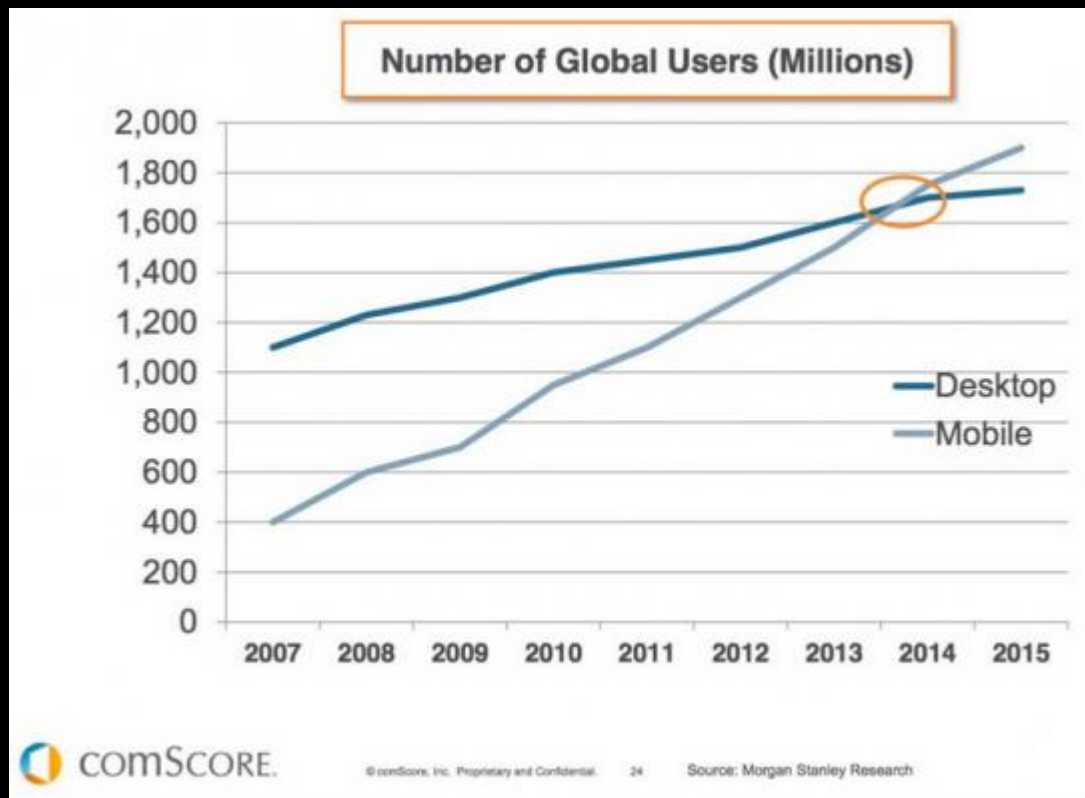
- Zagadnienia zaawansowane
- Responsive design
- Dostępne frameworki
- Scss
- Zagadnienia dodatkowe

# Box model



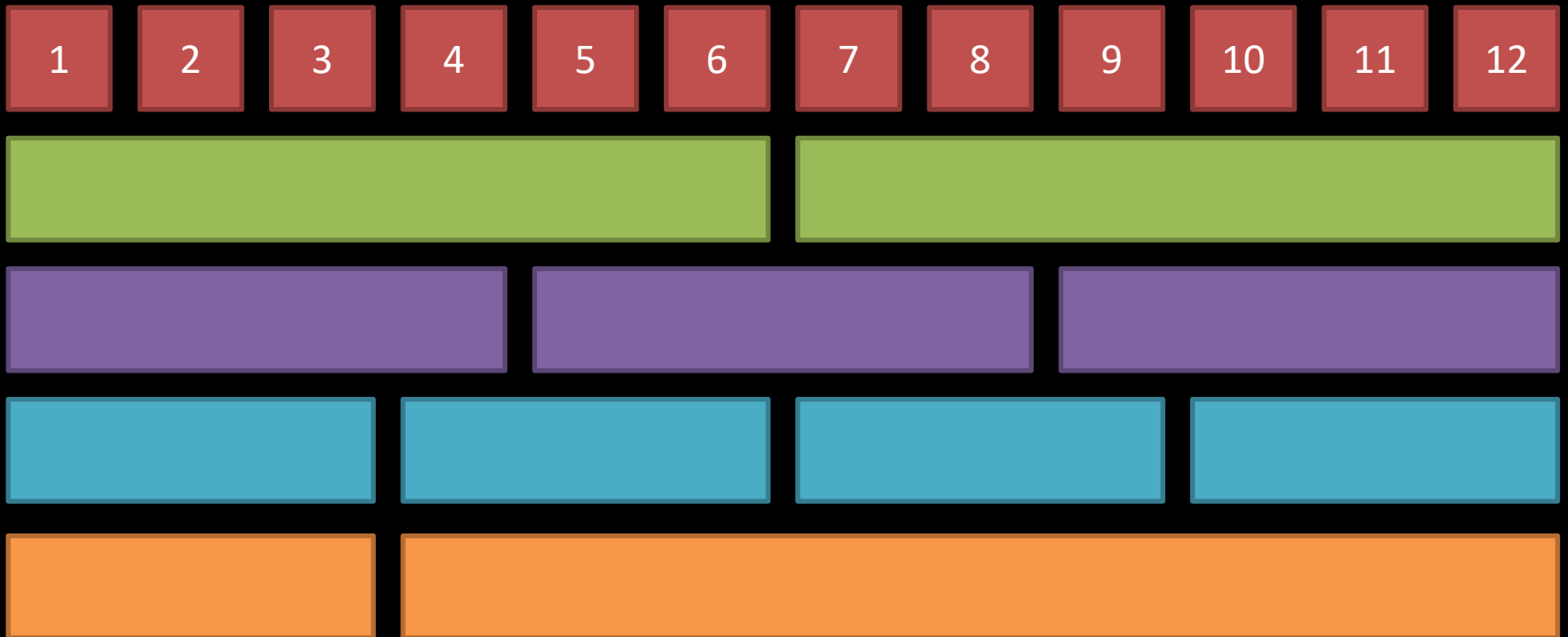
Demo

# Jak zmienia się przeglądanie Internetu?





# Responsive grid



# @media

```
/* Mobile */
@media only screen and (max-width: 767px) {
    main { width: 100%; }
}

/* Tablet */
@media only screen and (min-width: 768px) and (max-width: 1023px) {
    main { width: 91.6%; }
}

/* Desktop */
@media only screen and (min-width: 1024px) {
    main { width: 66.6%; }
}
```



# Reset szerokości ekranu

```
<head>  
  <meta charset="utf-8">  
  <meta name="viewport" content="width=device-width, initial-scale=1.0">  
  ...  
</head>
```

# Frameworki CSS

- Bootstrap
- Foundation
- Material Framework
- Materialize
- <https://colorlib.com/wp/free-css3-frameworks/>

# Bootstrap – przykład

	<b>Extra small devices</b> Phones (<768px)	<b>Small devices</b> Tablets (≥768px)	<b>Medium devices</b> Desktops (≥992px)	<b>Large devices</b> Desktops (≥1200px)
Grid behavior	Horizontal at all times	Collapsed to start, horizontal above breakpoints		
Container width	None (auto)	750px	970px	1170px
Class prefix	.col-xs-	.col-sm-	.col-md-	.col-lg-
# of columns	12			
Column width	Auto	~62px	~81px	~97px

# Sass

## Instalacja

<https://sass-lang.com/install>

## Kompilacja

```
sass style.scss style.css
```

## Automatyczna kompilacja

```
sass --watch style.scss:style.css
```

## Automatyczna kompilacja i minimalizacja

```
sass --watch style.scss:style.css --style compressed
```

# Sass

## Zmienne

```
$tablet-width: 100%;  
$desktop-width: 91.6%;  
  
/* Mobile */  
@media only screen and (max-width: 767px) {  
    main { width: $tablet-width; }  
}  
  
/* Tablet */  
@media only screen and (min-width: 768px) and (max-width: 1023px) {  
    main { width: $desktop-width; }  
}
```

# Sass

## Zagnieżdżanie

```
table.subjects {  
  width: 100%;  
  border-top: 1px solid $main-color;  
  border-bottom: 1px solid $main-color;  
  
  a {  
    color: black;  
  }  
  
  tr:nth-child(even) {  
    background-color: $background-color;  
  }  
  
  &:hover {  
    cursor: crosshair;  
  }  
}
```

# Sass

## Import arkuszy

```
/* _reset.scss */
```

```
html, body {  
  margin: 0;  
  padding: 0;  
}
```

```
/* style.scss */
```

```
@import 'reset';
```

```
* {  
  box-sizing: border-box;  
  font-family: "Lucida Sans", Verdana, sans-serif;  
}
```

# Sass

## Dziedziczenie

```
.error {  
  border: 1px solid #f00;  
  background-color: #fdd;  
}  
  
.seriousError {  
  @extend .error;  
  border-width: 3px;  
}
```



# Sass

## Operator

```
$no-menu-items: 5;

/* Mobile */
@media only screen and (max-width: 767px) {
  .menu-item { width: 100%; }
}

/* Tablet */
@media only screen and (min-width: 768px) and (max-width: 1023px) {
  .menu-item { width: 100% / $no-menu-items; }
}
```

# Browser-sync

## Instalacja

```
npm install -g browser-sync
```

## Uruchomienie nasłuchu

```
browser-sync start --server --directory --files "**/*"
```

# Do doczytania

- <https://css-tricks.com/> (flexbox, grid)
- Google Material Design
- Content Delivery Network
- WCAG 2.0  
<http://dostepnestrony.pl/artykul/wcag-2-0-w-skrocie/>
- Technology radar  
<https://www.thoughtworks.com/radar>