

BACKENDOWCU,
ZOSTAŃ CSS NINJA!





ANNA MATYSIAK

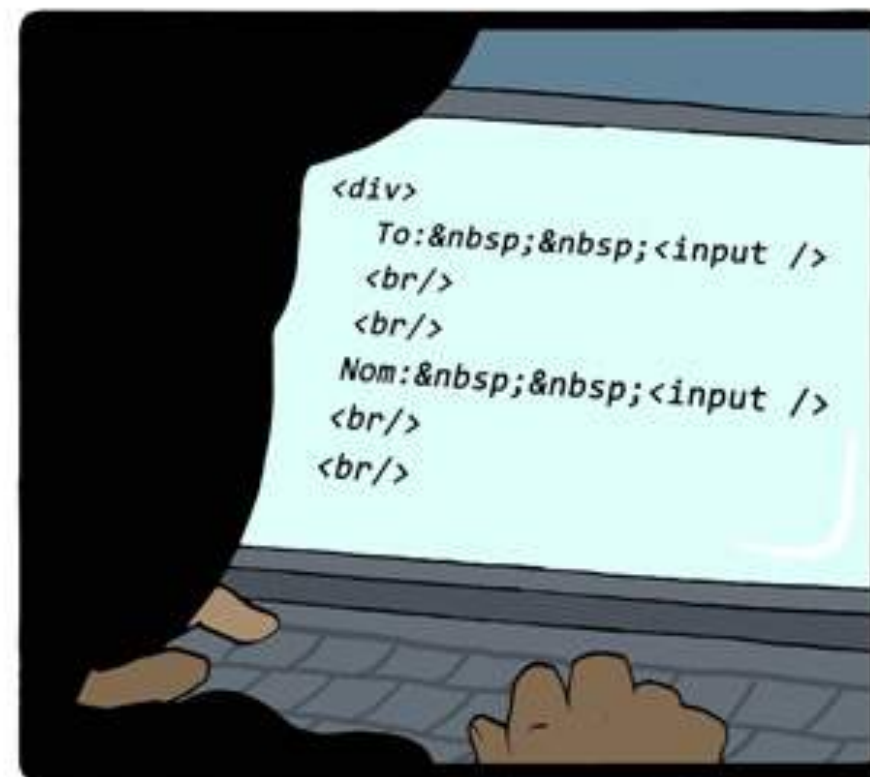
xsolve.



Web Developer
(PHP+ HTML/CSS/JS)

Programista / Web Designer
(Python + HTML/CSS/JS)

Frontend Developer



CommitStrip.com

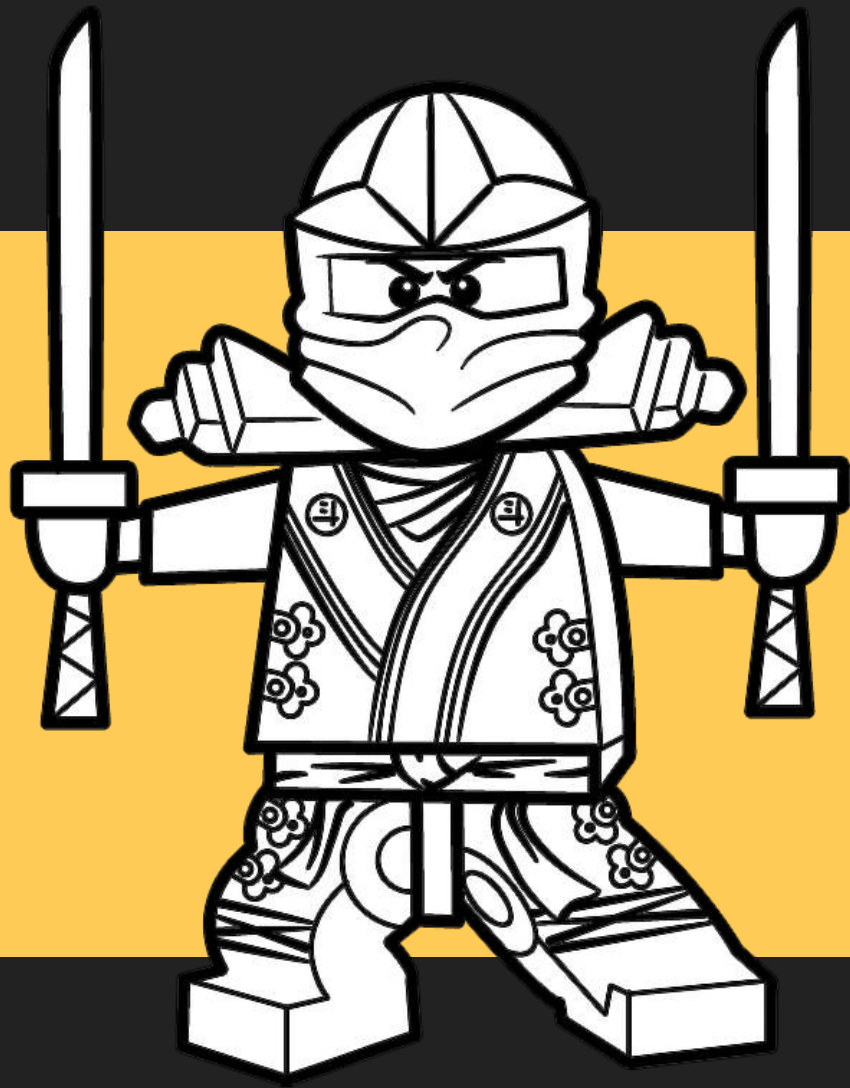


CSS1: 1996 Håkon Wium Lie oraz Bert Bos publikują specyfikację (68 stron formatu A4)

CSS2: 1998 do autorów dołączają Chris Lilley i Ian Jacobs (480 stron)

PODZIAŁ NA ODDZIELNE SPECYFIKACJE/MODUŁY

- ▶ **LEVEL 3:** moduły rozwijające funkcje już istniejące w specyfikacji CSS 2.1
(np *Selectors*, *CSS Text*, *CSS Color*, *CSS Values and Units*)
- ▶ **LEVEL 1:** moduły z całkowicie nowymi koncepcjami
(*CSS Transforms*, *Filter Effects*, *CSS Flexible Box Layout*, *CSS Grid Layout*)



DRY?



„Don't Repeat Yourself (DRY)”

```
.button-basic {  
  background: #ddd;  
  border-radius: 50%;  
  display: block;  
  height: 100px;  
  width: 20px;  
}  
  
.button-warning {  
  background: #ff0000;  
  border-radius: 50%;  
  display: block;  
  height: 100px;  
  width: 20px;  
}
```



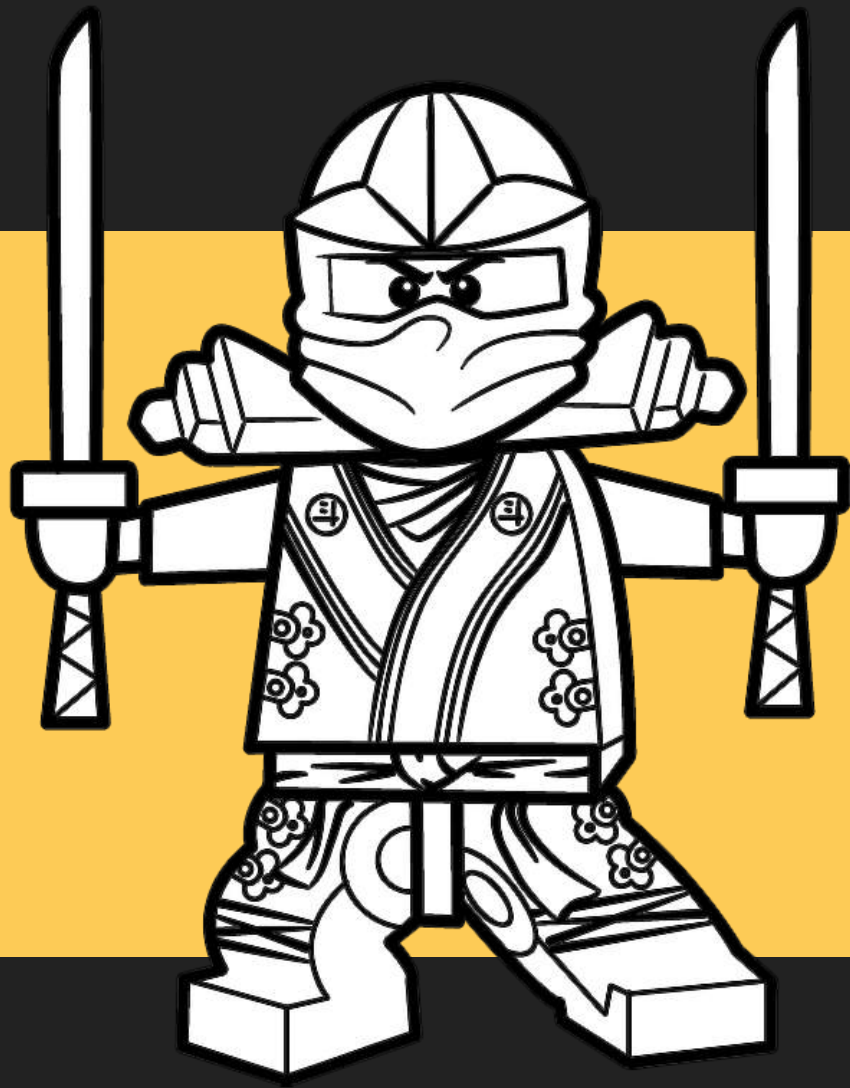


„Don't Repeat Yourself (DRY)”

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  background: #ff0000;  
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  display: block;  
  height: 100px;  
  width: 20px;  
}
```



```
.button {  
  background: #ddd;  
  border-radius: 50%;  
  display: block;  
  height: 100px;  
  width: 20px;  
}  
  
.button-warning {  
  background: #ff0000;  
}
```



SOLID?



Robert Martin

20 lis (3 dni temu)



do mnie ▾

Hmmm. My gut reaction is that there is an incomplete cross section between SOLID and CSS. CSS would benefit from analytical thinking, careful construction of hierarchies, and good naming discipline. Principles like SRP and OCP certainly apply. I'm not as convinced for DIP, ISP, or LSP however. Those principles, it seems to me, are much more specifically related to executable software rather than descriptive data structures.





S: Single Responsibility Principle

Klasa powinna mieć tylko jedną odpowiedzialność

```
<div class="error-box"></div>

.error-box {
  background-color: white;
  color: red;
  display: block;
  margin: 5% 0;
  padding: 5% 20%;
  width: 100%;
}
```



```
<div class="box error"></div>

.box {
  display: block;
  margin: 5% 0;
  padding: 5% 20%;
  width: 100%;
}

.error {
  background-color: white;
  color: red;
}
```



0: Open/Closed Principle

Klasa powinna być otwarta na rozszerzenia i zamknięta na modyfikacje

```
.btn {  
  border-radius: 50%;  
  height: 20px;  
  padding: 5% 10%;  
  width: 200px;  
}  
  
.btn-warning {  
  background-color: red;  
  color: white;  
}
```

```
.alert {  
  border: 1px solid transparent;  
  border-radius: .25rem;  
  margin-bottom: 1rem;  
  padding: .75rem 1.25rem;  
  position: relative;  
}  
  
.alert-info {  
  background-color: #d1ecf1;  
  border-color: #bee5eb;  
  color: #0c5460;  
}
```



L: Liskov Substitution Principle

Funkcje które używają wskaźników lub referencji do klas bazowych, muszą być w stanie używać również obiektów klas dziedziczących po klasach bazowych, bez dokładnej znajomości tych obiektów



L: Liskov Substitution Principle

Klasa rozszerzająca inną nie powinna zmieniać zachowania klasy bazowej

```
.box {  
  display: block;  
  height: 200px;  
  width: 100%;  
}  
  
.box-info {  
  @extend .box;  
  
  display: table-cell;  
  height: 100%;  
  left: 0;  
  position: absolute;  
  top: 0;  
  width: 10px;  
}
```





I: Interface Segregation Principle

Wiele dedykowanych interfejsów jest lepsze niż jeden ogólny.



I: Interface Segregation Principle

Wiele dedykowanych klas jest lepsze niż jedna bardzo ogólna

```
.btn {  
  background-color: #ddd;  
  border: 1px solid #fff;  
  color: #000;  
  display: block;  
  font-size: 14px;  
  height: 20px;  
  width: 100%;  
}  
  
.btn-homepage {  
  background-color: #eee;  
  color: #595959;  
  font-size: 12px;  
  height: 22px;  
}
```





D: Dependency Inversion Principle

Wysokopoziomowe moduły nie powinny zależeć od modułów niskopoziomowych
- zależności między nimi powinny wynikać z abstrakcji.



D: Dependency Inversion Principle

Zmiany stylu klas podrzędnych nie powinny mieć wpływu na style klas nadrzędnych

```
<hgroup>
  <h1>Title</h1>
  <h2>subtitle</h2>
</hgroup>

hgroup {
  height: 100px;
}

hgroup h1 {
  height: 200px;
}
```





**THE TEAM TRIED TO INTRODUCE SOME
CSS STRUCTURE**

**I SAID THEY TRIED, NOT THEY
SUCCEEDED.**

memegenerator.net



METODYKI



FORM



OOCSS - Object Oriented CSS



- ▶ Modularny i zorientowany obiektowo CSS
- ▶ Najpierw klasy globalne, a potem bardziej wyspecjalizowane
- ▶ Rozdzielone style dla kontenerów i zawartości

```
.btn {  
  border-radius: 5px;  
  font-size: 12px;  
  padding: 2% 10px;  
}  
  
.btn-disabled {  
  opacity: 0.8;  
}
```

```
body.home .btn {  
  border-radius: 5px;  
  font-size: 12px;  
  padding: 2% 10px;  
}
```





SMACSS - Scalable and Modular Architecture for CSS



Podział styli na 5 grup:

- ▶ bazowe
- ▶ layout (prefix l-)
- ▶ moduły
- ▶ stan (prefix is-)
- ▶ temat

```
h2 {  
  font-size: 16px;  
}  
  
.l-main {  
  display: block;  
  height: 500px;  
  width: 100%;  
}  
  
.form {  
  border: 1px solid #ddd;  
}  
  
.is-disabled {  
  opacity: 0.8;  
}  
  
.christmas {  
  .form {  
    border-color: #ff0000;  
  }  
}
```



BEM - Block Element Modifier



- ▶ Modularny kod CSS
- ▶ Elementy dzielimy na:
 - ▶ bloki (np formularz)
 - ▶ elementy (np input)
 - ▶ modyfikatory (np input do wpisania hasła)

```
<form submit="">  
  <input type="text">  
</form>
```

```
.form {  
  // code  
}  
  
.form__input {  
  // code  
}  
  
.form__input--password {  
  // code  
}
```



ACSS - Atomic CSS



- ▶ Klasy CSS niezależne od treści i reużywalne
- ▶ Najczęściej jednolinijkowe, odpowiadające tylko za jedno ustawienie

```
.padding-bottom-0 {  
  padding-bottom: 0;  
}  
  
.padding-bottom-5 {  
  padding-bottom: 5px;  
}
```

PREPROCESSORY





BACKENDOWCU, ZOSTAŃ CSS NINJA!

Your laptop needs more Sass. Grab a set of Sass stickers now.



INSTALL LEARN SASS BLOG DOCUMENTATION GET INVOLVED LIBSASS

CSS with superpowers



Sass is the most mature, stable, and powerful professional grade CSS extension language in the world.

Current Release: 3.5.1 Release Notes Fork on GitHub Implementation Guide

CSS COMPATIBLE Sass is completely compatible with all versions of CSS. We take this compatibility seriously, so that you can seamlessly use any available CSS libraries.	FEATURE RICH Sass boasts more features and abilities than any other CSS extension language out there. The Sass Core Team has worked endlessly to not only keep up, but stay ahead.	MATURE Sass has been actively supported for over 10 years by its loving Core Team.
INDUSTRY APPROVED Over and over again, the industry is choosing Sass as the premier CSS extension language.	LARGE COMMUNITY Sass is actively supported and developed by a consortium of several tech companies and hundreds of developers.	FRAMEWORKS There are an endless number of frameworks built with Sass. Compass , Bourbon , and Susy just to name a few.



EXPRESSIVE, DYNAMIC, ROBUST CSS

CSS needs a hero

```
body {
  font: 12px Helvetica, Arial, sans-serif;
}
a.button {
  -webkit-border-radius: 5px;
  -moz-border-radius: 5px;
  border-radius: 5px;
}
```

What if we could omit braces?

```
body
  font: 12px Helvetica, Arial, sans-serif;

a.button
  -webkit-border-radius: 5px;
  -moz-border-radius: 5px;
  border-radius: 5px;
```

How about semi-colons?

```
body
  font: 12px Helvetica, Arial, sans-serif

a.button
```



- TRY STYLUS ONLINE!
- SELECTORS
- VARIABLES
- INTERPOLATION
- OPERATORS
- MIXINS
- FUNCTIONS
- KEYWORD ARGUMENTS
- BUILT-IN FUNCTIONS
- REST PARAMS
- COMMENTS
- CONDITIONALS
- HASHES
- ITERATION
- @IMPORT AND @REQUIRE



Language Features Function Reference Usage Try it

About GitHub

Getting started

An overview of Less, how to download and use, examples and more.

Less 3.0 is coming! See the updated documentation!

Getting Started
Using Less
Client-side Usage
Get Less
License FAQs

Getting Started

Less is a CSS pre-processor, meaning that it extends the CSS language, adding features that allow variables, mixins, functions and many other techniques that allow you to make CSS that is more maintainable, themeable and extendable.

Less runs inside Node, in the browser and inside Rhino. There are also many 3rd party tools that allow you to compile your files and watch for changes. The quickest place for first experiments with Less is our online editor.

For example:

```
@base: #f938ab;

.box-shadow(@style, @c) when (iscolor(@c)) {
  -webkit-box-shadow: @style @c;
  box-shadow:       @style @c;
}

.box-shadow(@style, @alpha: 50%) when (isnumber(@alpha)) {
  .box-shadow(@style, rgba(0, 0, 0, @alpha));
}

.box {
  color: saturate(@base, 5%);
  border-color: lighten(@base, 30%);
  div { .box-shadow(0 0 5px, 30%) }
}
```

compiles to

```
.box {
  color: #fe33ac;
}
```

CLAY

UNLIMITED* CSS

ABOUT FEATURES INSTALL DOCS TUTORIAL SOURCE

ABOUT

Clay is a CSS preprocessor like [LESS](#) and [Sass](#), but implemented as an embedded domain specific language (EDSL) in Haskell. This means that all CSS selectors and style rules are first class Haskell functions, which makes reuse and composability easy.

Clay doesn't really use any clever Haskell tricks which makes it easy to work with, even without a lot of Haskell experience.

IN ACTION

```
{-# LANGUAGE
  OverloadedStrings
 #-}
import Clay

menu :: Css
menu = header |> nav ?
  do background white
    color "#04a"
    fontSize (px 24)
    padding 20 0 20 0
    textTransform uppercase
    position absolute
    left 0
    right 0
```

PREPROCESSORY



ZAGNIEŻDŻANIE



```
.title {  
  font-size: 20px;  
  
  p {  
    color: #eee;  
  
    span {  
      text-decoration: underline;  
    }  
  }  
  
  &.first {  
    color: #ddd;  
  }  
}
```



```
.title {  
  font-size: 20px;  
}  
  
.title p {  
  color: #eee;  
}  
  
.title p span {  
  text-decoration: underline;  
}  
  
.title.first {  
  color: #ddd;  
}
```



DZIEDZICZENIE



```
.button {  
  font-size: 14px;  
  height: 20px;  
  width: 20px;  
}  
  
.button-warning {  
  @extend .button;  
  
  color: #ff0000;  
}
```





DZIEDZICZENIE



```
.button {  
  font-size: 14px;  
  height: 20px;  
  width: 20px;  
}  
  
.button-warning {  
  @extend .button;  
  
  color: #ff0000;  
}
```



```
.button,  
.button-warning {  
  font-size: 14px;  
  height: 20px;  
  width: 20px;  
}  
  
.button-warning {  
  color: #ff0000;  
}
```



MIXINY



```
@mixin button($height, $width, $color) {  
  color: $color;  
  height: $height;  
  width: $width;  
}  
  
.button-nav {  
  @include button (20px, 40px, #ff0000);  
}  
  
.block {  
  @include transition(all, .2s, ease-in-out)  
}
```

```
@mixin specialText {  
  color: #ff0000;  
  font-weight: bold;  
  text-transform: uppercase;  
}  
  
.text {  
  @include specialText;  
}
```



ZMIENNE



```
$red: #ff0000;  
  
.error {  
  color: $red;  
}
```



PĘTLE



```
$difference = 10px;  
$currentSize = 80px;
```

```
@for $i from 1 through 3 {  
  h#{$i} { font-size: $currentSize }  
  $currentSize: $currentSize - $difference;  
}
```



BACKENDOWCU, ZOSTAŃ CSS NINJA!



I WIELE WIĘCEJ :)



INSTALL

LEARN SASS

BLOG

DOCUMENTATION

GET INVOLVED

LIBSASS

CSS with superpowers



Sass is the most mature, stable, and powerful professional grade CSS extension language in the world.

Current Release: 3.5.1

Release Notes

Fork on GitHub

Implementation Guide

<http://sass-lang.com/>

PREPROCESSORY: SASS



Czy stosować preprocesory?



Czy stosować preprocesory?

TO ZALEŻY :)



CO SIĘ ZMIENIŁO?



„Grafiki dodawaj jako font”

<https://icomoon.io>

```
@font-face {  
  font-family: 'icomoon';  
  src:url('fonts/icomoon.eot');  
  src:url('fonts/icomoon.eot?#iefix') format('embedded-opentype'),  
    url('fonts/icomoon.woff') format('woff'),  
    url('fonts/icomoon.ttf') format('truetype'),  
    url('fonts/icomoon.svg#icomoon') format('svg');  
  font-weight: normal;  
  font-style: normal;  
}
```

HTML

```
<span class="icon-home"></span>
```

CSS

```
.icon-home:before {  
  content: "\e900";  
}
```

HTML Entity

```
&#xe900;
```

Character

❶ To add or edit ligatures, press the **fi** button in the toolbar.



„Kształty dodawaj jako style a nie grafiki”

Kształty dodawane jako style a nie grafiki

<https://css-tricks.com/examples/ShapesOfCSS/>

```
#triangle-left {  
    border-bottom: 50px solid transparent;  
    border-right: 100px solid red;  
    border-top: 50px solid transparent;  
    height: 0;  
    width: 0;  
}
```



„Gradienty dodawaj jako style a nie grafiki”

Gradienty dodawane jako style a nie grafiki

<http://www.colorzilla.com/gradient-editor/>

```
.gradient {  
  background: linear-gradient(to bottom, rgba(0,0,0,0.5) 0%, rgba(0,0,0,0) 100%);  
}
```



„Uważnie używaj prefixów”

caniuse.com/#search=border-radius

Home News Oct 29, 2017 - New feature added: Variable fonts Compare browsers About

Can I use border-radius ? Settings

1 result found

CSS3 Border-radius (rounded corners) - CR

Method of making the border corners round. Covers support for the shorthand `border-radius` as well as the long-hand properties (e.g. `border-top-left-radius`)

Poland 91.07%
unprefixed: 91.06%
Global 94.92%
unprefixed: 94.88%

Current aligned Usage relative Date relative Show all

IE	Edge	Firefox	Chrome	Safari	iOS Safari	Opera Mini	Chrome for Android	UC Browser for Android	Samsung Internet
		52	49						
		54	59						
		55	60						
11	16	57	62	11	11	all	62	11.4	5
	17	58	63	TP					
		59	64						
		60	65						

Notes Known issues (6) Resources (6) Feedback

```
.button {  
  -webkit-border-radius: 5px;  
  -moz-border-radius: 5px;  
  -o-border-radius: 5px;  
  -ms-border-radius: 5px;  
  border-radius: 5px;  
}
```





4.2.1 Declaration Order

Alphabetize declarations.



„Stosuj Style Guide”

```
-moz-border-radius: 4px;  
-webkit-border-radius: 4px;  
border-radius: 4px;  
color: black;  
text-align: center;  
text-indent: 2em;
```

4.2.2 Block Content Indentation

Indent all block content.

Indent all [block content](#), that is rules within rules as well as declarations, so to reflect hierarchy and improve understanding.

```
@media screen, projection {  
  
  html {  
    background: #fff;  
    color: #444;  
  }  
  
}
```

4.2.3 Declaration Stops

Use a semicolon after every declaration.

End every declaration with a semicolon for consistency and extensibility reasons.

```
/* Not recommended */  
.test {  
  display: block;  
  height: 100px  
}
```

<https://google.github.io/styleguide/htmlcssguide.html>

<https://github.com/airbnb/css>

<https://github.com/necolas/idiomatic-css>



```
1 a {color: #FFF; }  
2
```



„Stosuj Stylelint”

```
1:4  error  Expected single space after "{" of a single-line block (block-opening-brace-space-after)  
1:11 error  Expected "#FFF" to be "#fff" (color-hex-case)
```

```
1 {  
2   "rules": {  
3     "at-rule-no-unknown": true,  
4     "block-no-empty": true,  
5     "color-no-invalid-hex": true,  
6     "comment-no-empty": true,  
7     "declaration-block-no-duplicate-properties": [  
8       true,  
9       {  
10        "ignore": [  
11          "consecutive-duplicates-with-different-values"  
12        ]  
13      }  
14    ],  
15    "declaration-block-no-redundant-longhand-properties": true,  
16    "declaration-block-no-shorthand-property-overrides": true,  
17    "font-family-no-duplicate-names": true,  
18    "font-family-no-missing-generic-family-keyword": true,  
19    "function-calc-no-unspaced-operator": true,  
20    "function-linear-gradient-no-nonstandard-direction": true,  
21    "keyframe-declaration-no-important": true,  
22    "media-feature-name-no-unknown": true,  
23    "no-descending-specificity": true,  
24    "no-duplicate-at-import-rules": true,  
25    "no-duplicate-selectors": true,  
26    "no-empty-source": true,  
27    "no-extra-semicolons": true,  
28    "no-invalid-double-slash-comments": true,  
29    "property-no-unknown": true,  
30    "selector-pseudo-class-no-unknown": true,  
31    "selector-pseudo-element-no-unknown": true,  
32    "selector-type-no-unknown": true
```





„Stosuj funkcje z CSS”

```
transform: translateX(20px);
```

```
calc: width(100% - 200px);
```

```
content: " (" attr(href) ")";
```

```
background-color: rgba(255,0,0,0.8);
```

```
background-color: hsla(240,100%,30%,0.8);
```



„Stosuj zmienne z CSS”

```
--bg-color: #fff;
```

```
body {  
  background-color: var(--bg-color);  
}
```

```
.element {  
  color: var(--color-var, white);  
}
```

```
.element {  
  color: var(--color-var, var(--color-background, white));  
}
```

```
element.style.getPropertyValue("--color-var");
```

```
element.style.setProperty("--color-var", jsVariable);
```



CO SIĘ ZMIENIŁO?



„Niech Twój kod będzie RWD”

Stosuj jednostki względne, np vh, vw

Stosuj max-width, zamiast width

Stosuj rozsądnie media query

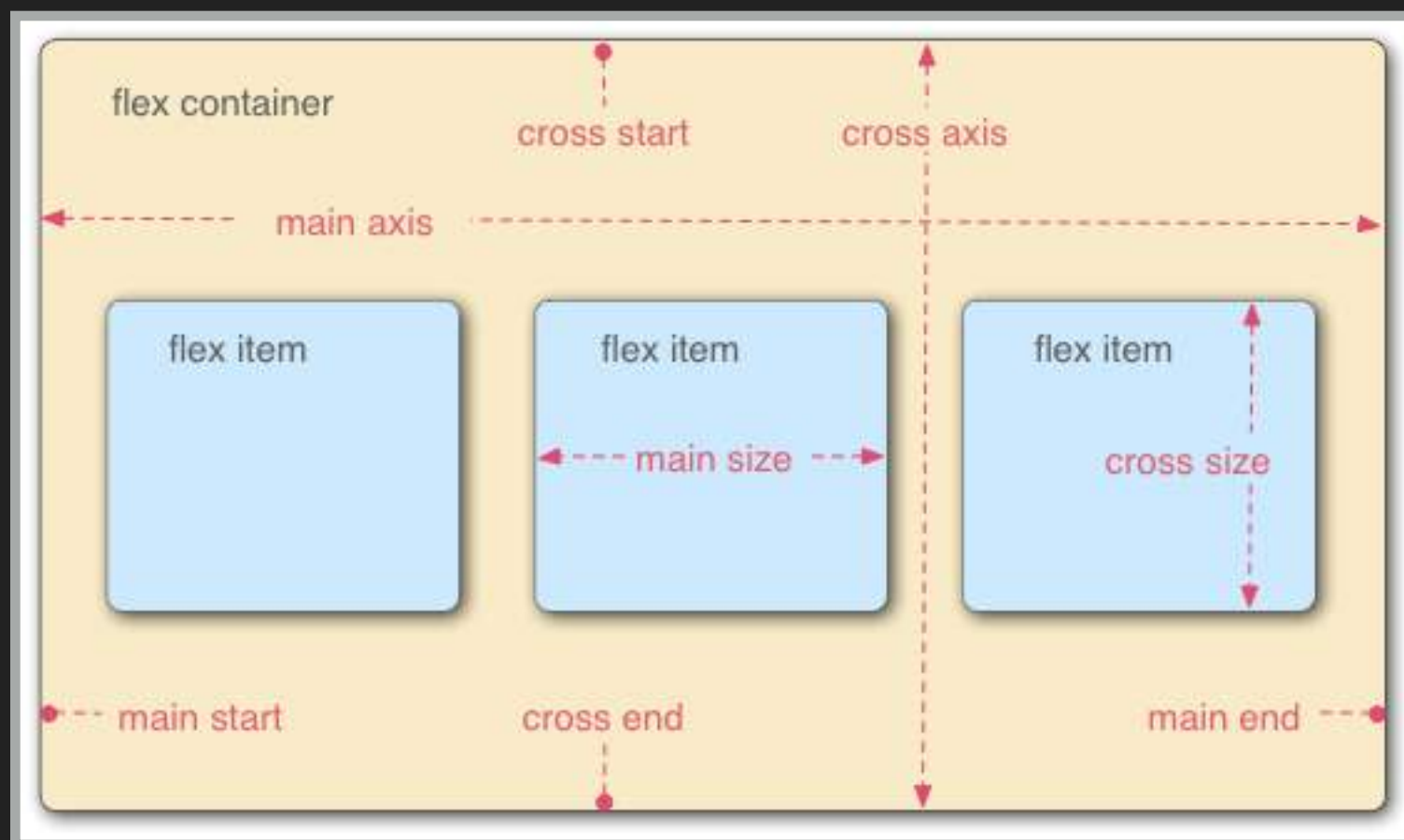
```
@media screen and (min-width: 1700px) {  
  aside {  
    display: block;  
  }  
}
```

Stosuj podejście mobile first





„Wykorzystuj Flexbox/Grid”



<https://codepen.io/justd/pen/yydezN>

<http://the-echoplex.net/flexyboxes>



FLEXY BOXES

flexbox playground and code generator

1

2

3

Fixed height container (not min-height) ☒

RTL writing mode ☐

```
.flex-container {  
  display: -ms-flexbox;  
  display: -webkit-flex;  
  display: flex;  
  -webkit-flex-direction: row;  
  -ms-flex-direction: row;  
  flex-direction: row;  
  -webkit-flex-wrap: nowrap;  
  -ms-flex-wrap: nowrap;  
  flex-wrap: nowrap;  
  -webkit-justify-content: center;  
  -ms-flex-pack: center;  
  justify-content: center;  
  -webkit-align-content: stretch;  
  -ms-flex-line-pack: stretch;  
  align-content: stretch;  
}
```

Generate legacy flexbox styles ☐

Show vanilla CSS ☐

flex container

display: flex

flex-direction: row

flex-wrap: nowrap

justify-content: center

align-items: center

align-content: stretch

flex items

1

order: 0

flex: 0 1 auto

align-self: auto

2

order: 0

flex: 0 1 auto

align-self: auto

3

order: 0

flex: 0 1 auto

align-self: auto

+

-

CO SIĘ ZMIENIŁO?



„Wykorzystuj Flexbox/Grid”



```
.box1 {  
  grid-column-start: 1;  
  grid-column-end: 4;  
  grid-row-start: 1;  
  grid-row-end: 3;  
  display: grid;  
  grid-template-columns: repeat(3, 1fr);  
}
```



BACKENDOWCU, ZOSTAŃ CSS NINJA!

CSS Only iPhone 6
A PEN BY Fabrizio Bianchi

Run

Fork

Settings

Change View

Log In

Sign Up

HTML

```
1 <div id="wrapper">
2   <div id="iphone">
3     <div id="shadow"></div>
4     <div id="side"></div>
5     <div id="lines">
6       <div>
7         <div>
8           <div></div>
9         </div>
10      </div>
11     <div>
12     </div>
```

CSS

```
1 /* No images in this pen :D */
2
3 @font-face {
4   font-family: Helvetica;
5   src: url(https://s3-us-west-
6         2.amazonaws.com/s.cdn.io/164210/Helveti
7         caNeue-UltraLight.otf)
8   format('TrueType');
9   font-weight: 300;
10 }
11
12 body {
```

JS

```
1 //You may also like Plugin
2 /*alsolike(
3   "LwlqI", "100 followers jelly cake!",
4   "nKCsI", "Semantic Sandwich",
5   "whxbF", "CSS Only Bending Effect"
6 );*/
```



Console Assets Comments

Share Export Embed

<https://codepen.io/fbrz/pen/vlrnd>

CO SIĘ ZMIENIŁO?



FRAMEWORKKI



BACKENDOWCU, ZOSTAŃ CSS NINJA!

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v4.0 [Download](#)

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 jQuery.

[Get started](#) [Download](#)

Currently v4.0.0-beta.2

Bootstrap CDN

When you only need to include Bootstrap's compiled CSS or JS, you can use the Bootstrap CDN.

CSS only

```
<link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0-beta.2/css/bootstrap.min.css">
```

JS, Popper.js, and jQuery

```
<script src="https://code.jquery.com/jquery-3.2.1.slim.min.js" integrity="sha384-k8WsjZJkbvM6FkYoBwE58fH162Ft7e61jQ8vceL4Q8601xALeBy28f6Q784fc"></script><script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.12.3/umd/popper.min.js" integrity="sha384-Ue2e781f7616Lj1JKYDoeXFFuyQ9y0y+9mPuo8oiC/GcrkjIzoG3OH尹Pocd1X3q"></script><script src="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0-beta.2/js/bootstrap.min.js" integrity="sha384-8k6kR14+iX1Q8Cf6xIWg6v4SRL7V939i/AsC4VSbU4WOXayJW8yE9wkOQjGt"></script>
```

[Explore the docs](#)

Official Themes

Take Bootstrap 4 to the next level with official premium themes—toolkits built on Bootstrap with new components and plugins, docs, and build tools.

[Browse themes](#)

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Foundation

The most advanced responsive front-end framework in the world.

[Download Foundation 6](#)

★ 26.7k GitHub stars
@ZURBFoundation

Responsive design gets a whole lot faster

A Framework for any device, medium, and accessibility. Foundation is a family of responsive front-end frameworks that make it easy to design beautiful responsive websites, apps and emails that look amazing on any device. Foundation is semantic, readable, flexible, and completely customizable. We're constantly adding new resources and code snippets, including these handy HTML templates to help get you started!

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2.2.13

Semantic UI

User Interface is the language of the web

[Get Started](#) [New in 2.2](#)

Design Beautiful Websites Quicker

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Materialize simplifies life for developers and the users they serve.

Speeds up development

We did most of the heavy lifting for you to provide a default stylings that incorporate our custom components. Additionally, we refined animations and transitions to provide a smoother experience for developers.

User Experience Focused

By utilizing elements and principles of Material Design, we were able to create a framework that incorporates components and animations that provide more feedback to users. Additionally, a single underlying responsive system across all platforms allow for a more unified user experience.

Easy to work with

We have provided detailed documentation as well as specific code examples to help new users get started. We are also always open to feedback and can answer any questions a user may have about Materialize.

[Become a Patron](#)

FRAMEWORKKI



**JAK POSZERZAĆ SWOJĄ
WIEDZĘ Z CSS?**



Konferencje/meetupy





Książki/artykuly/blogi

Moja pierwsza strona internetowa w HTML5 i CSS3

Damian Wielgosik

wersja HTML

pdf

epub

mobi



O'REILLY®

CSS BEZ TAJEMNIC

47 SEKRETÓW
KREATYWNEGO
PROJEKTANTA

LEA VEROU



Helion



Książki/artykuly/blogi

Code Snippets » CSS »

CSS Grid Starter Layouts

BY **GEOFF GRAHAM** LAST UPDATED ON NOVEMBER 24, 2017

GRID

This is a collection of starter templates for layouts and patterns using [CSS Grid](#). The idea here is to show off what the technique is capable of doing and provide a starting point that can be re-purposed for other projects.

Remember that browser support for Grid is good but requires fallbacks for legacy browsers. That means a straight up copy and paste of these may not be well suited for some use cases.

Holy Grail Layout

The ol' classic three-column layout where two sidebars and a container holding the body copy is sandwiched between a full-width header and footer.

Flexible Holy Grail

Everything stays intact as the viewport width changes using a fluid content

MDN web docs

Technologies ▾

References & Guides ▾

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CSS

Cascading Style Sheets (CSS) is a [stylesheet](#) language used to describe the presentation of a document written in [HTML](#) or [XML](#) (including XML dialects such as [SVG](#) or [XHTML](#)). CSS describes how elements should be rendered on screen, on paper, in speech, or on other media.

CSS is one of the core languages of the [open web](#) and is standardized across browsers according to the [W3C specification](#). Developed in levels, CSS1 is now obsolete, CSS2.1 is a recommendation, and [CSS3](#), now split into smaller modules, is progressing on the standardization track.

CSS Introduction

If you're new to web development, be sure to read our [CSS basics](#) article to learn what CSS is and how to use it.

CSS Tutorials

Our [CSS learning area](#) contains a wealth of tutorials to take you from beginner level to proficiency, covering all the fundamentals.

CSS Reference

Our [exhaustive CSS reference](#) for seasoned Web developers describes every property and concept of CSS.

Tutorials

Our [CSS Learning Area](#) features multiple modules that teach CSS from the ground up — no previous knowledge required.

[Introduction to CSS](#)

This module gets you started with the basics of how CSS works, including selectors and properties, writing CSS rules, applying CSS to HTML, how to specify length, color, and other units in CSS, cascade and inheritance, box model basics, and debugging CSS.

Reference

- [CSS reference](#): This exhaustive reference for seasoned Web developers describes every property and concept of CSS.
- CSS key concepts:
 - [The syntax and forms of the language](#)
 - [Specificity and inheritance](#)
 - [Box model and margin collapse](#)

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

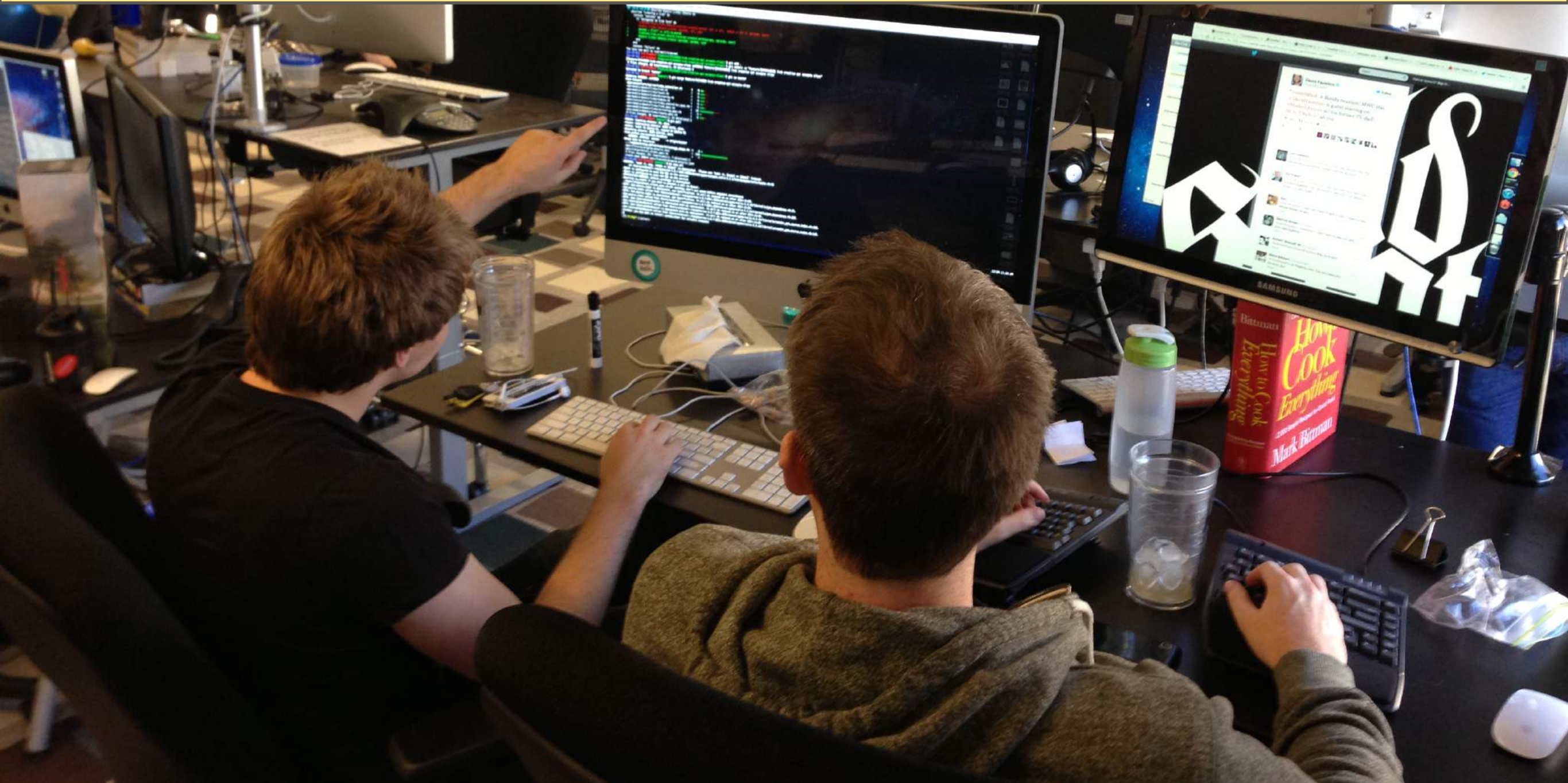
<https://css-tricks.com>



BACKENDOWCU, ZOSTAŃ CSS NINJA!



Pair programming



JAK SIĘ UCZYĆ CSS?



Koduj, koduj, koduj :)





DZIĘKI ZA UWAGĘ :)



PYTANIA?



DZIĘKI ZA UWAGĘ :)

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CSS bez tajemnic. 47 sekretów kreatywnego projektanta - Lea Verou

GRAFIKI

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