

ADVANCED STYLING SETUPS

Artevelde GDM - 06/03/2019

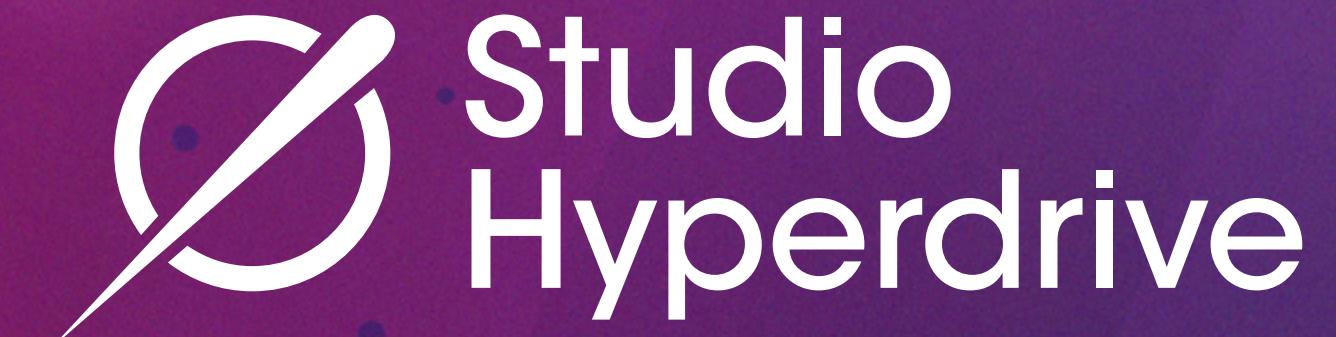
Fabian Meul & Enzo Eghermanne



Fabian Meul



Enzo Eghermanne



Studio
Hyperdrive

We ❤️ JavaScript



Websites & Webapps

Angular, React, Vue, Node.js...



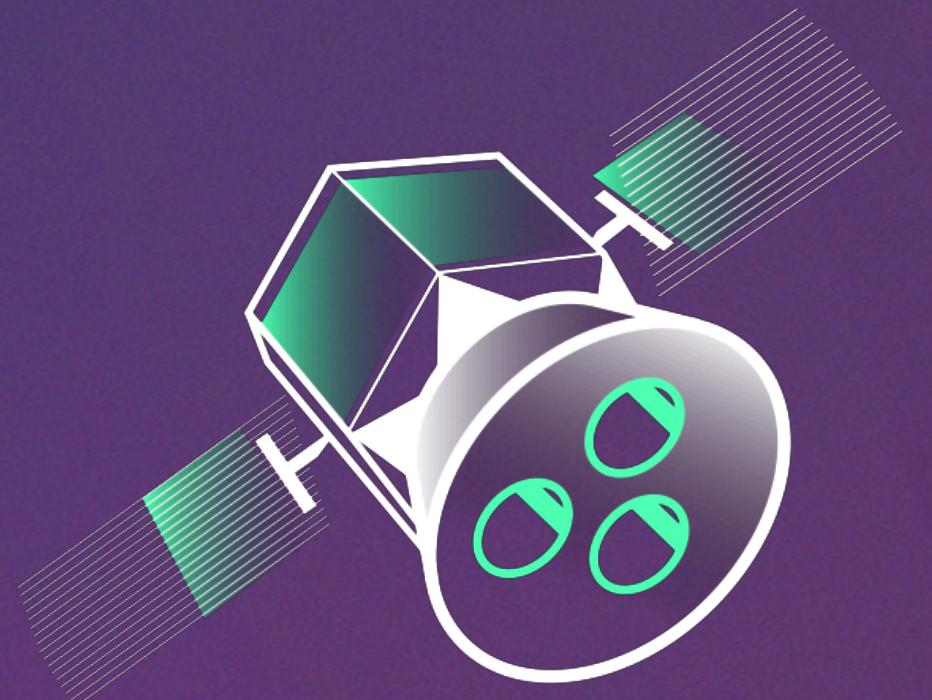
Mobile Apps

Progressive Webapps, Hybrid Apps (Cordova/Phonegap) and React Native



Digital Experiences

WebGL, Css & Javascript Animations, WebXR, Chatbots



Business Engines

Node.js



Consulting Services

Helping other teams!

www.studiohyperdrive.be



🤓 Theory 📫



🎉 Making stuff! 🎉

CSS BASICS



Cascading Style Sheet

Selectors

It's all about **weights**.



```
/*
 * 1: Elements and pseudo-elements (`a, div , body, :before, :after`)
 * 10: Classes and attribute selectors (`.element, [type="text"]`)
 * 100: ID's
 * 1000: Inline styles
 */

a#link {
    /* Score: 101 */
    color: red;
}

a.link {
    /* Score: 11 */
    color: orange;
}

a {
    /* Score: 1 */
    color: blue;
}
```



Specificity



A set of three small circular icons typically found in Mac OS X windows: a red circle for close, a yellow circle for minimize, and a green circle for maximize.

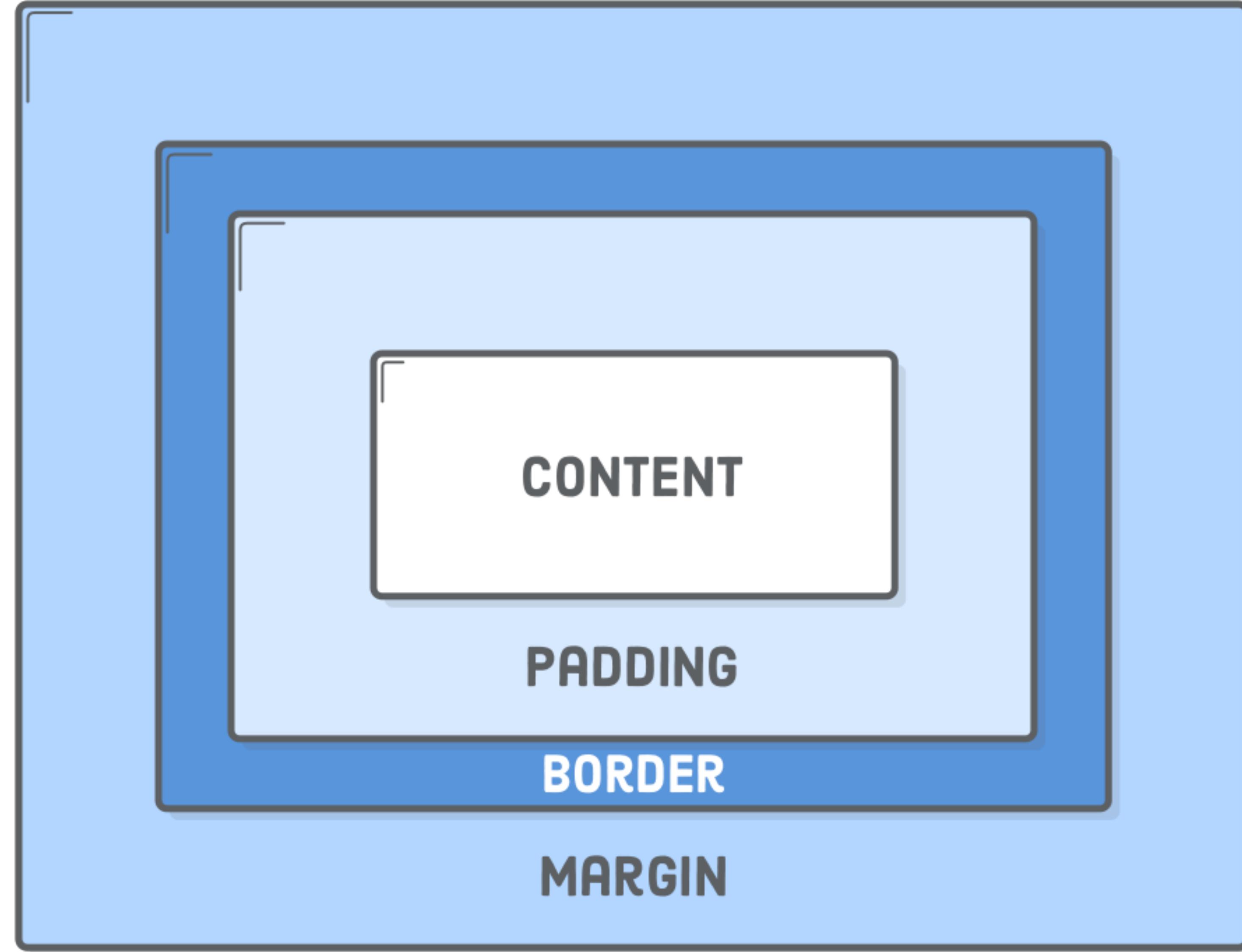
```
<div id="test">  
  <span>Text</span>  
</div>
```

A set of three small circular icons typically found in Mac OS X windows: a red circle for close, a yellow circle for minimize, and a green circle for maximize.

```
div#test span { color: green; }  
div span { color: blue; }  
span { color: red; }
```

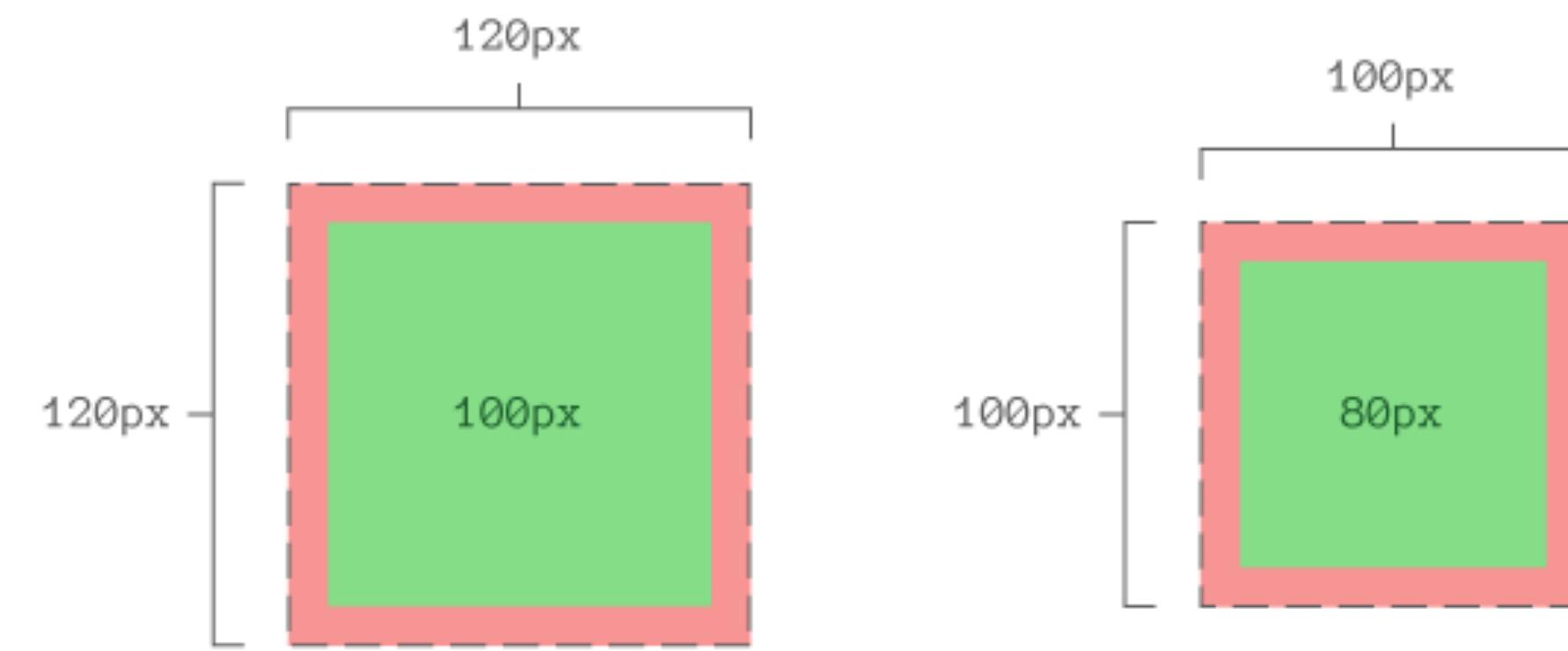


Box-Model



CSS Box Sizing

content-box **vs** border-box



```
box-sizing: content-box;  
width: 100px;  
height: 100px;  
padding: 10px;
```

```
box-sizing: border-box;  
width: 100px;  
height: 100px;  
padding: 10px;
```



Padding



Content area



Element border

box-sizing: content-box

- ✓ Content
- ✗ Border
- ✗ Padding
- ✗ Margin

box-sizing: border-box

✓ Content

✓ Border

✓ Padding

✗ Margin



Media Queries →



How well does it scale?



```
/* Target a single media type */
@media print { ... }

/* Target multiple media types */
@media screen, print { ... }

/* Target media features */
@media (max-width: 1450px) { ... }

/* 🤖 */
@media screen and (min-width: 30em) and (orientation: landscape) { ... }
```

THE AVERAGE CSS SETUP.



```
1 @import 'normalize-2.1.1.css';
2 @import '../sabado_font/stylesheet.css';
3
4 h1, h2, h3, h4, h5, h6, p, blockquote, pre, a, abbr, address, cit, code,
5 del, dfn, em, ins, q, samp, small, strong, sub, sup, b, i, hr, dl, dt, dd,
6 ol, ul, li, fieldset, legend, label {
7   border: 0;
8   font-size: 100%;
9   vertical-align: baseline;
10  margin: 0;
11  padding: 0;
12 }
13
14 html {
15   min-height: 100%;
16   background: #efefef;
17 }
18
19 body {
20   width: 100%;
21   min-height: 100%;
```

THE BETTER CSS. SETUP.

Sass

◆ Variables ◆

Store reusable values



```
$color-red: #FF0000;  
$color-green: #00FF00;  
$color-blue: #0000FF;
```

```
h1 { color: $color-red; }  
p { color: $color-green; }  
a { color: $color-blue; }
```



Nesting

Write hierarchical CSS selectors.



```
// Good old CSS
.parent { color: red; }
.parent .child { color: blue; }
.parent .child:hover { color: purple; }

// Sass Nesting
.parent {
    color: red;

    .child {
        color: blue;

        &:hover {
            color: purple;
        }
    }
}
```



Partials

Write stylesheets in a modular way using **partials** and **import** statements.

```
/* _variables.scss */

// Font weights
$light: 100;
$regular: 400;
$bold: 600;

// Base Font
$base-font-family: sans-serif;
$base-font-weight: $regular;
$base-font-size: 13px;
$base-line-height: 1.4;
```

```
/* styles.scss */

@import "_variables.scss";

a {
    font-weight: $base-font-weight;
}
```



Functions & Mixins





```
// square
// ---
// Return the width and height of the square
// -----
@mixin square($size) {
    width: $size;
    height: $size;
}

...
.a-avatar {
    @include square(20px);
}
```



```
// rem(px)
// ---
// Converts a pixel value to rem-units
// -----
@function rem($px) {
  $rem: $px / 16px;
  @return #{$rem}rem;
}

...
.a-avatar {
  font-size: rem(26px);
}
```



Extension and Inheritance





```
// _theme-variables.scss
$base-background-color: "#0000FF";

...
// _variables.scss
$base-background-color: "#FF0000" !default;

// !default => Assign, unless this is already assigned.

...
@import "_theme-variables.scss";
@import "_variables.scss";

...
// _some-component.scss
// $base-background-color => "#0000FF"
```

CSS TOOLS

PostCSS

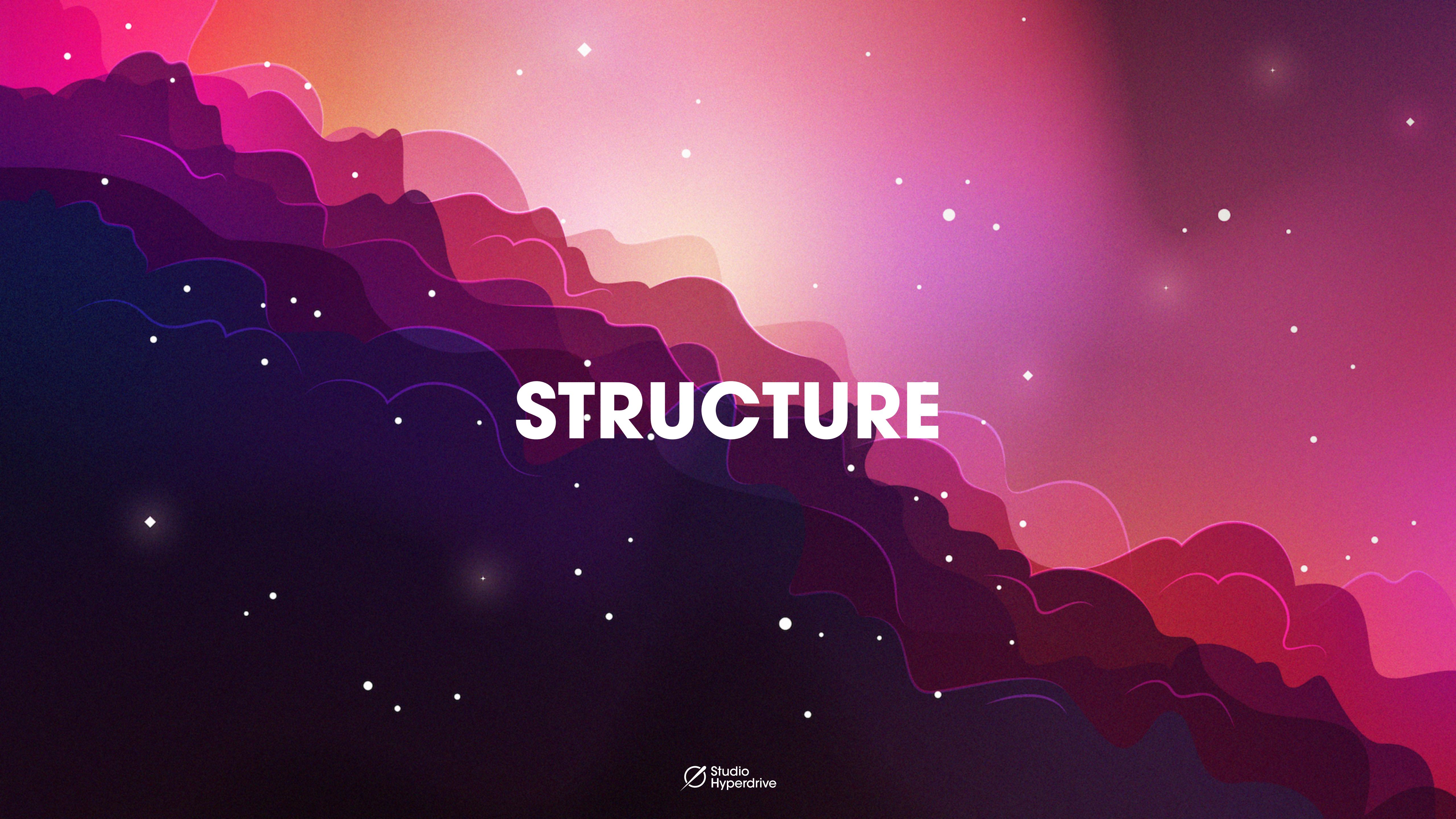
A tool for transforming CSS with JavaScript.

Stylelint

Enforce conventions in your styles.



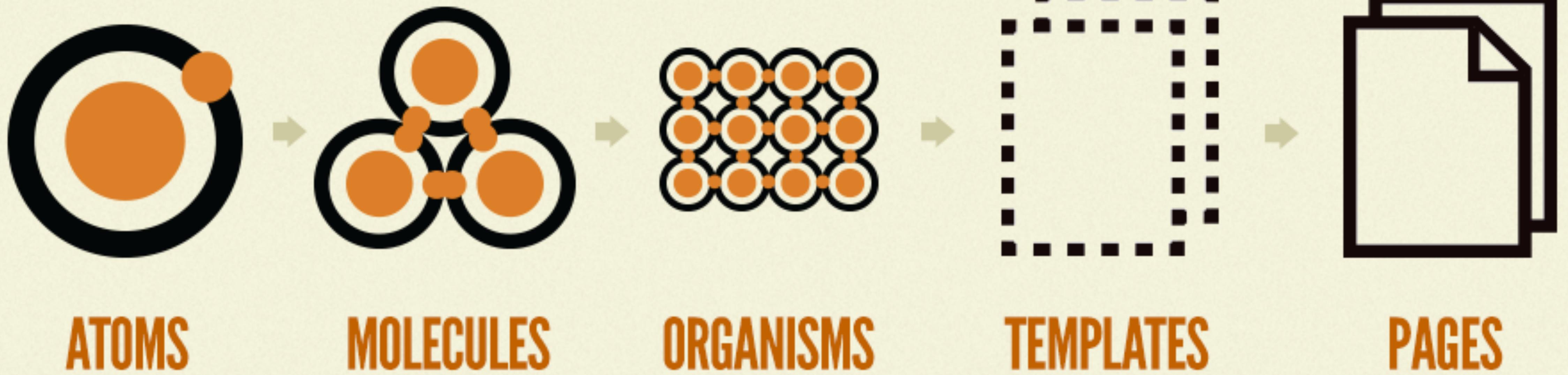
```
src/assets/styles/globals/_colors.scss  
9:9 ✘ Expected "#ffffff" to be "#fff"    color-hex-length  
  
src/assets/styles/molecules/_pictures.scss  
75:2 ✘ Expected variable for "color".    sh-waqar/declaration-use-variable  
  
src/assets/styles/quarks/_typography.scss  
2:50 ✘ Expected quotes around "Segoe UI"    font-family-name-quotes
```

The background features a dynamic, abstract design composed of thick, flowing lines in shades of purple, pink, and orange. Small white dots of varying sizes are scattered across the surface, some aligned with the lines and others appearing randomly. The overall effect is organic and fluid.

STRUCTURE

Atomic Design

<http://atomicdesign.bradfrost.com/>





SEARCH THE SITE

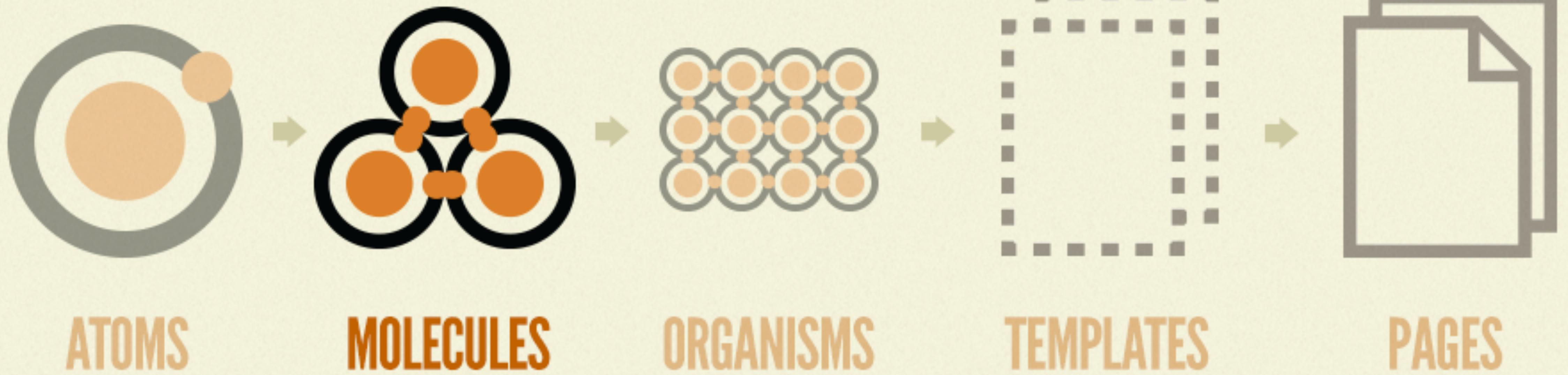
LABEL

ENTER KEYWORD

INPUT

SEARCH

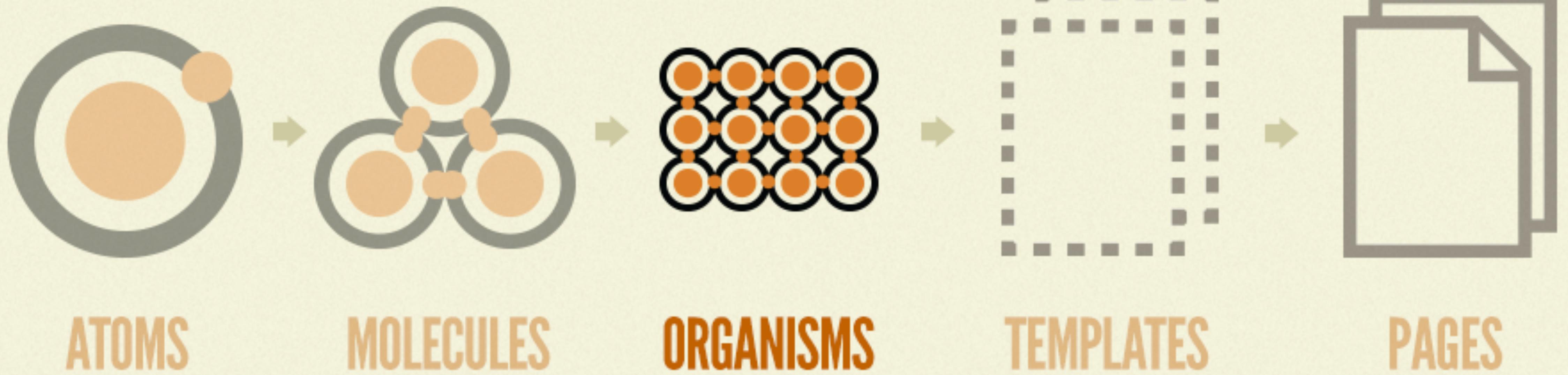
BUTTON

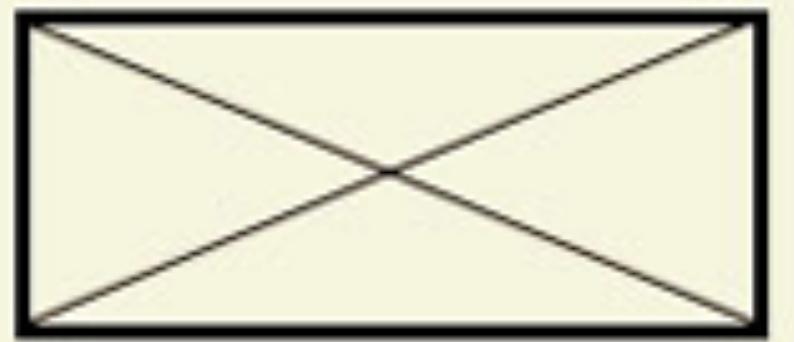


SEARCH THE SITE

ENTER KEYWORD

SEARCH





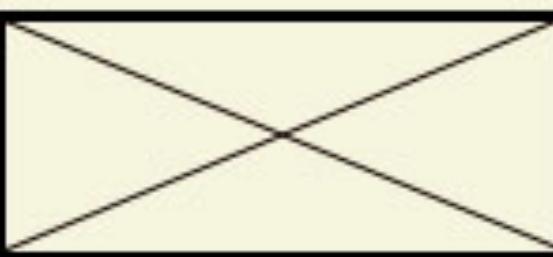
Home About Blog Contact

SEARCH THE SITE

ENTER KEYWORD

SEARCH



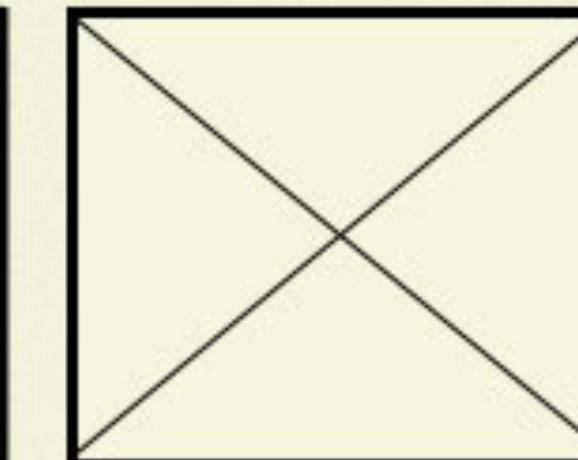
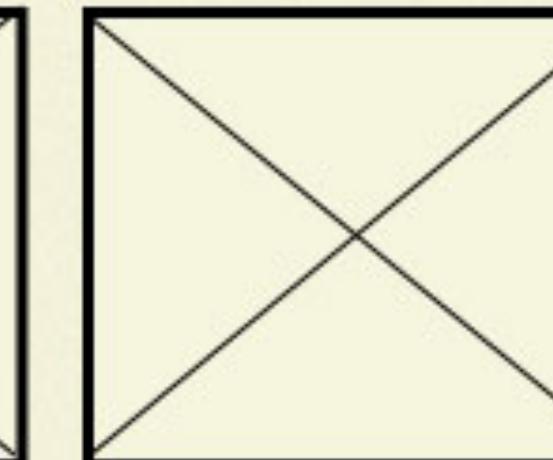
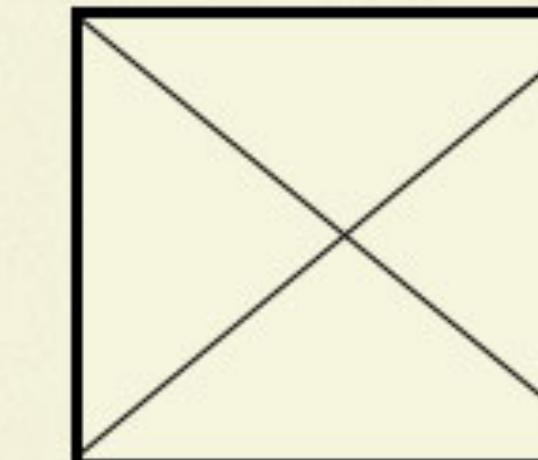
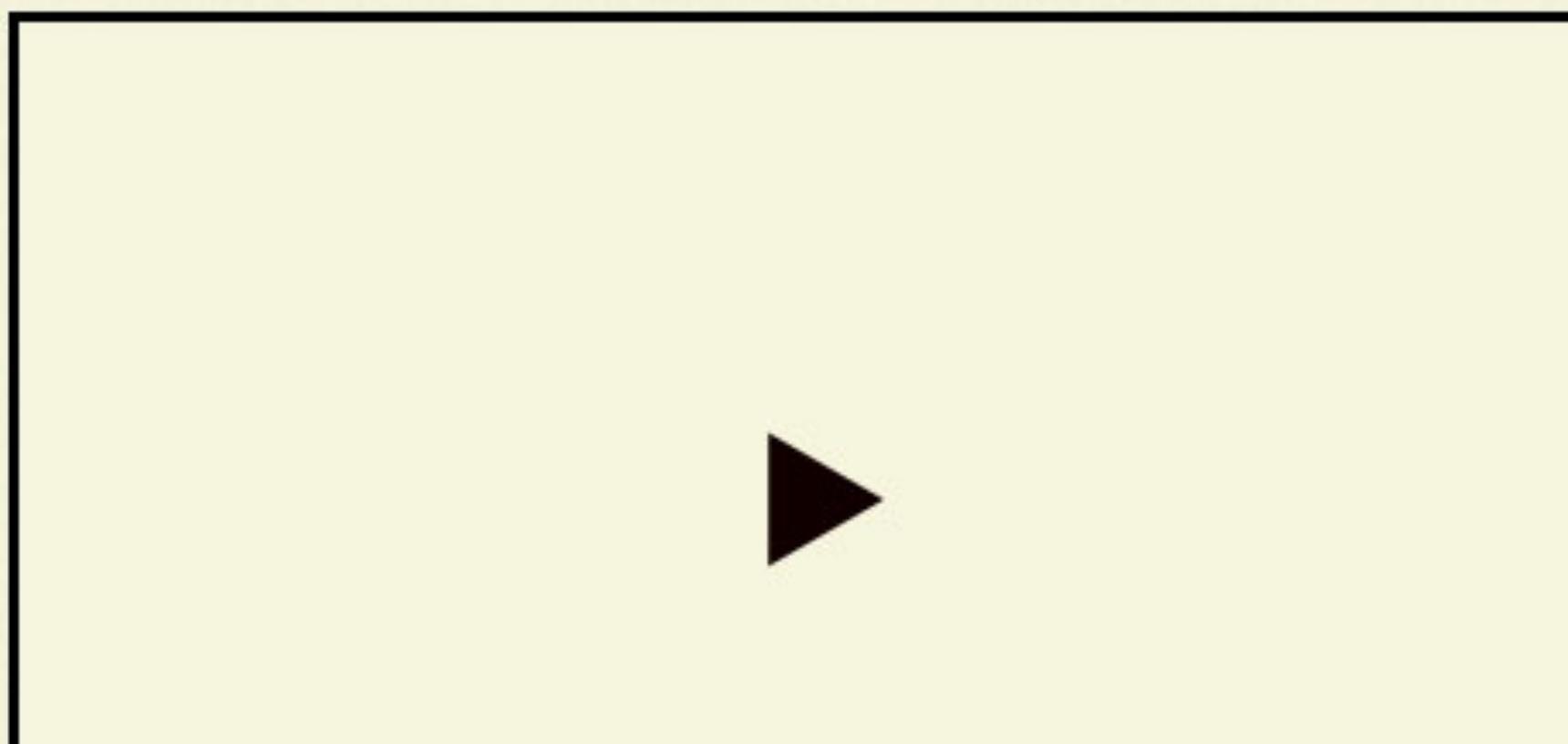
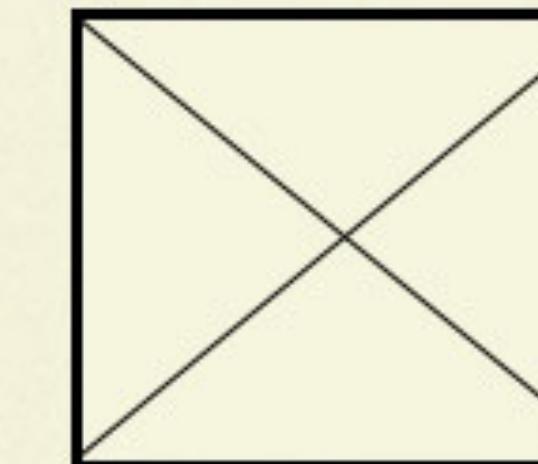
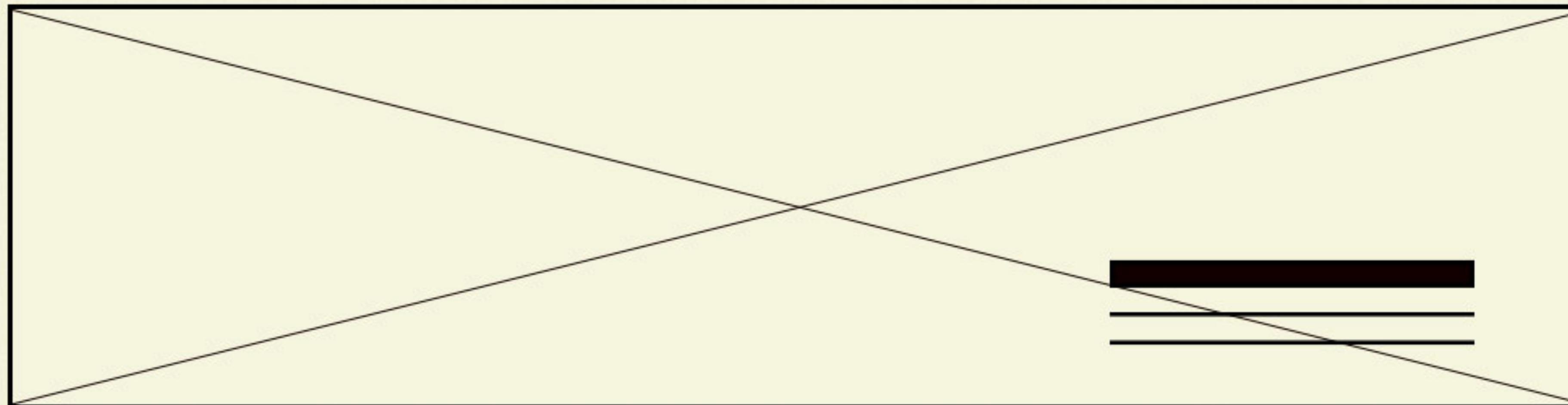


Home **About** **Blog** **Contact**

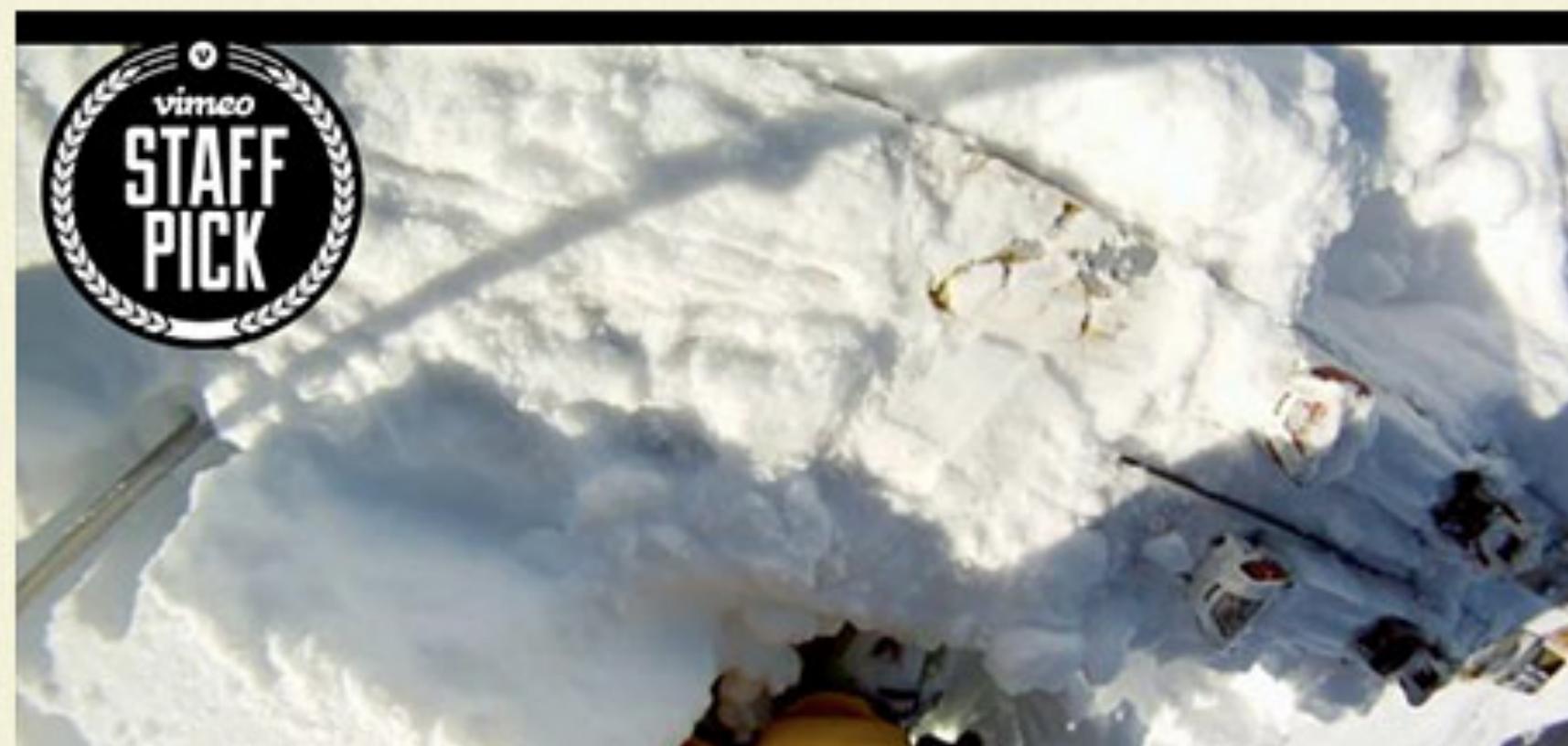
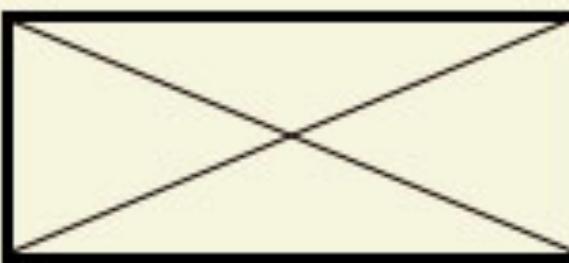
SEARCH THE SITE

ENTER KEYWORD

SEARCH







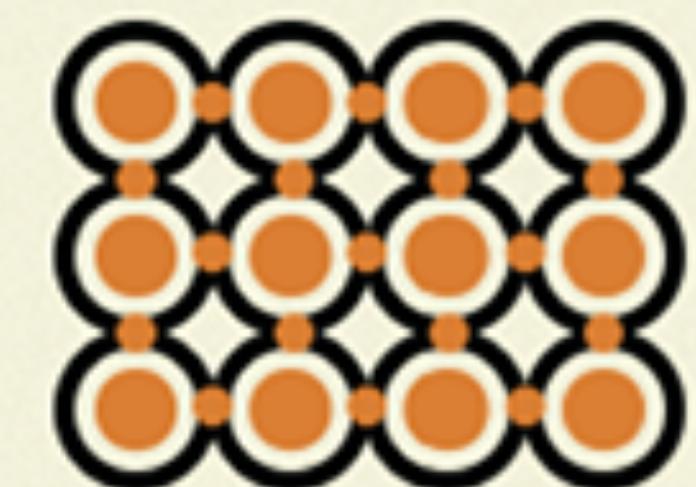
ABSTRACT



ATOMS



MOLECULES



ORGANISMS



TEMPLATES



PAGES

CONCRETE

BEM Methodology

<http://getbem.com/>

BEM

Block Element Modifier



```
/* Block component */
.block {}

/* Element */
.block_element {}

/* Modifier */
.article_element--modifier {}
```



```
/* Block component */
.article {}

/* Elements */
.article__title {}

.article__body {}

.article__cta {}

/* Modifiers */
.article--wide {}
.article--short {}

.article__title--uppercase {}
```



```
/* Don't do this */
.navigation__menu__link__icon {}

/* Do this instead */
.navigation__menu {}
.navigation__menu-link {}
.navigation__menu-link-icon {}
```

ABEM

<https://css-tricks.com/abem-useful-adaptation-bem/>



```
/* Atoms */
.a-label {}

.a-input {}
.a-input--big {}

.a-button {}

.a-section {}

.a-link {}
.a-link--inverted {}
```



```
/* Molecules */
.m-form {}
.m-form__title {}
.m-form__input-group {}
.m-form__action {}

.m-breadcrumbs {}
.m-breadcrumbs__item {}
.m-breadcrumbs__item--dark {}
```



```
/* Organisms */  
.o-header {}  
  
.o-footer {}  
.o-footer--small {}  
  
.o-sidebar {}  
.o-sidebar__menu {}  
.o-sidebar__actions {}
```



```
/* Pages */  
.p-home {}  
  
.p-contact {}  
  
.p-jobs {}  
  
.p-portfolio {}
```

The background features a dark, abstract space scene with glowing, wavy lines in shades of pink, orange, and yellow. Small white dots of varying sizes represent stars scattered across the dark background.

REAL-WORLD



```
~ git --version  
git version 2.21.0
```



```
~ node -v  
v10.15.1
```



```
~ yarn -v  
1.13.0
```



```
~ npm -v  
6.4.1
```

<https://bit.ly/2TrP8Pf>



```
~ git clone https://github.com/studiohyperdrive/advanced-styling-setup_workshop.git  
~ cd advanced-styling-setup_workshop  
~ git checkout start
```



~ yarn install

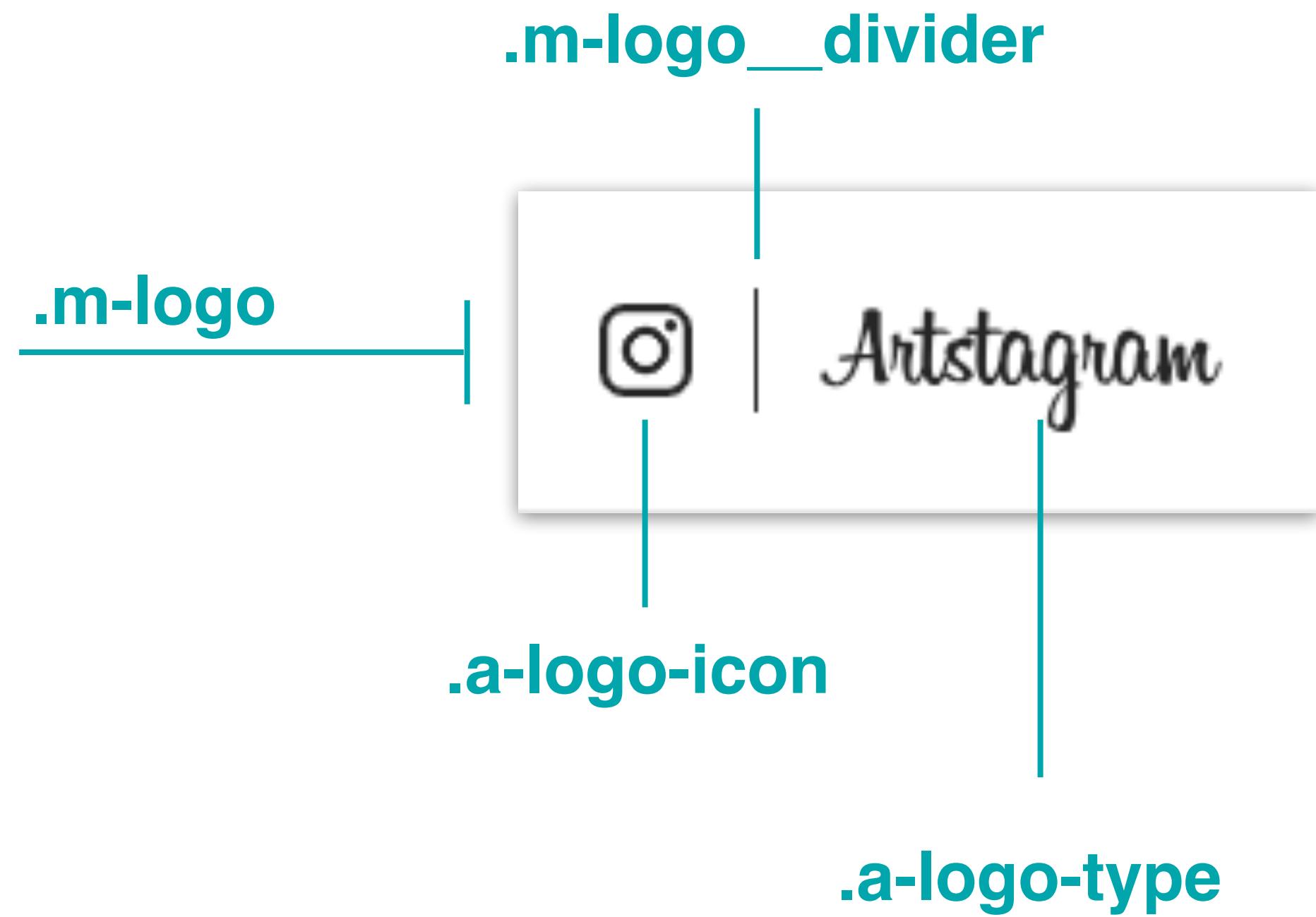


~ npm install



```
→ advanced-styling-setup_workshop git:(start) yarn start
yarn run v1.13.0
$ parcel src/index.html
Server running at http://localhost:1234
✨ Built in 2.24s.
```

.m-logo





~ git checkout checkpoint/1-logo

.o-header



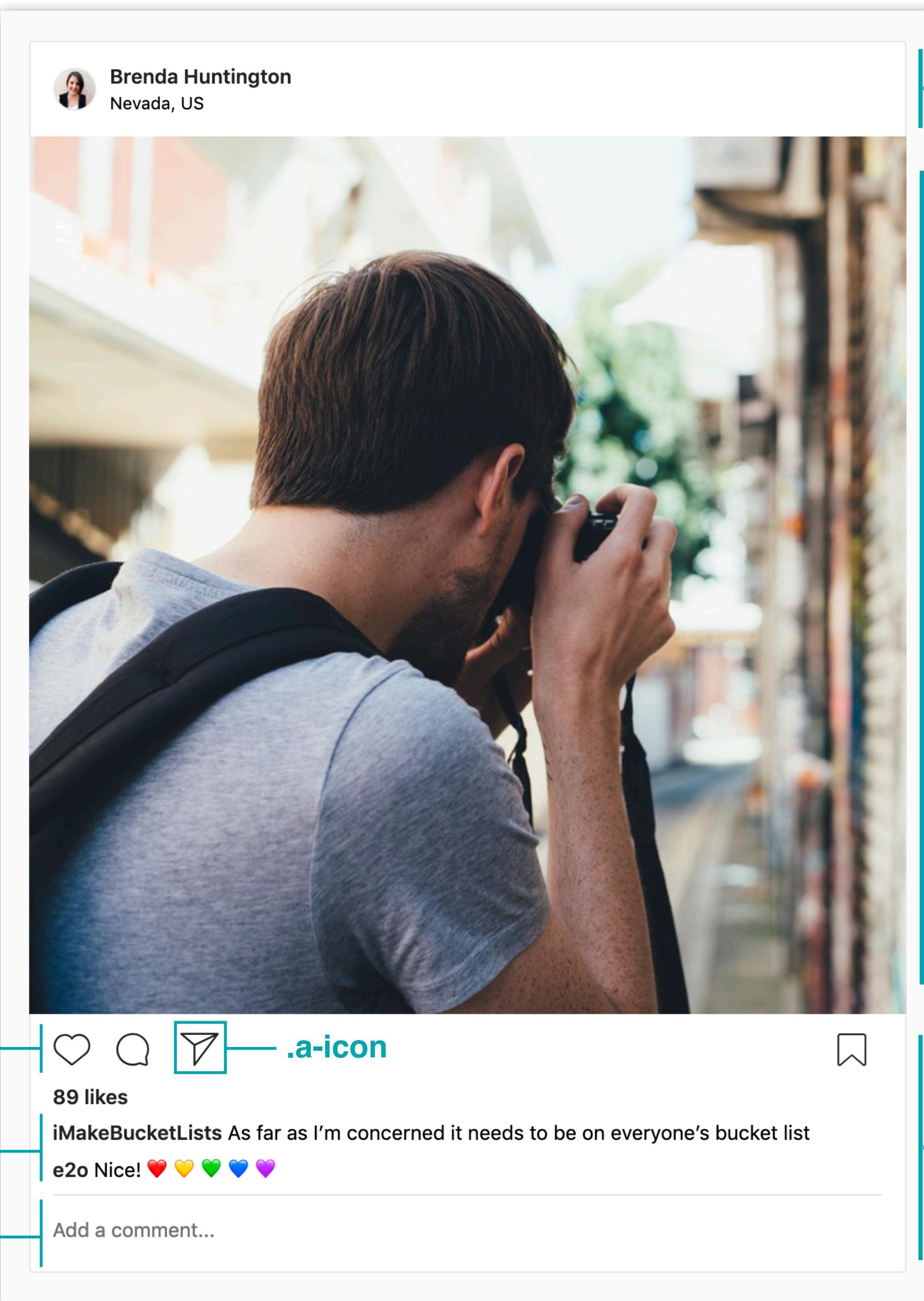


~ git checkout checkpoint/2-header

.o-card

.o-card

.o-card__header



.o-card__actions



89 likes

iMakeBucketLists As far as I'm concerned it needs to be on everyone's bucket list

e2o Nice! ❤️ 🌈 🌿 💙 💜

Add a comment...

.o-card__image

.o-card__content

.m-comments

.m-comment-box

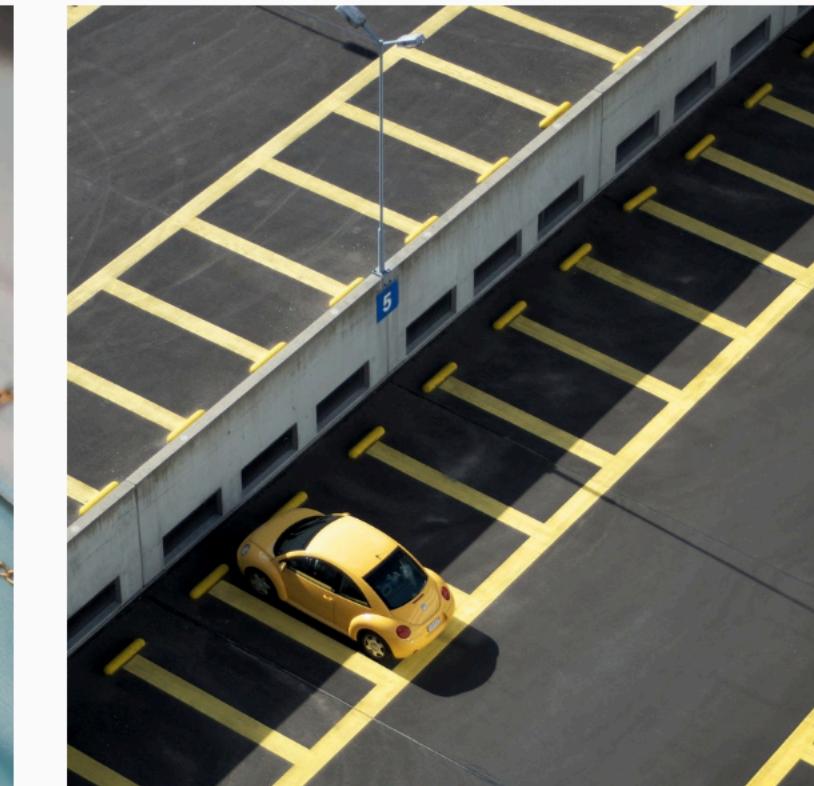
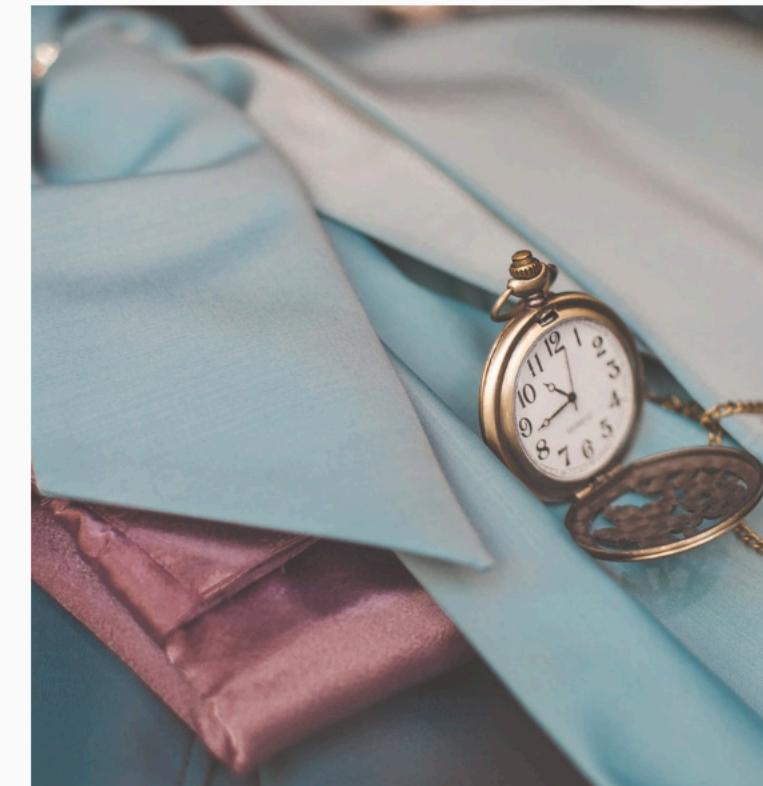
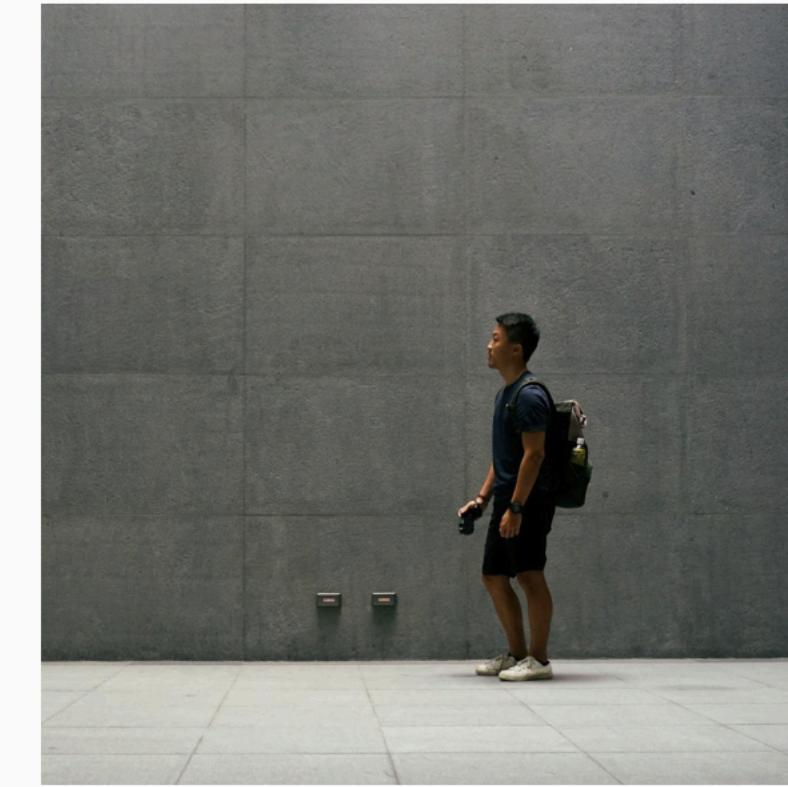


~ git checkout checkpoint/3-cards

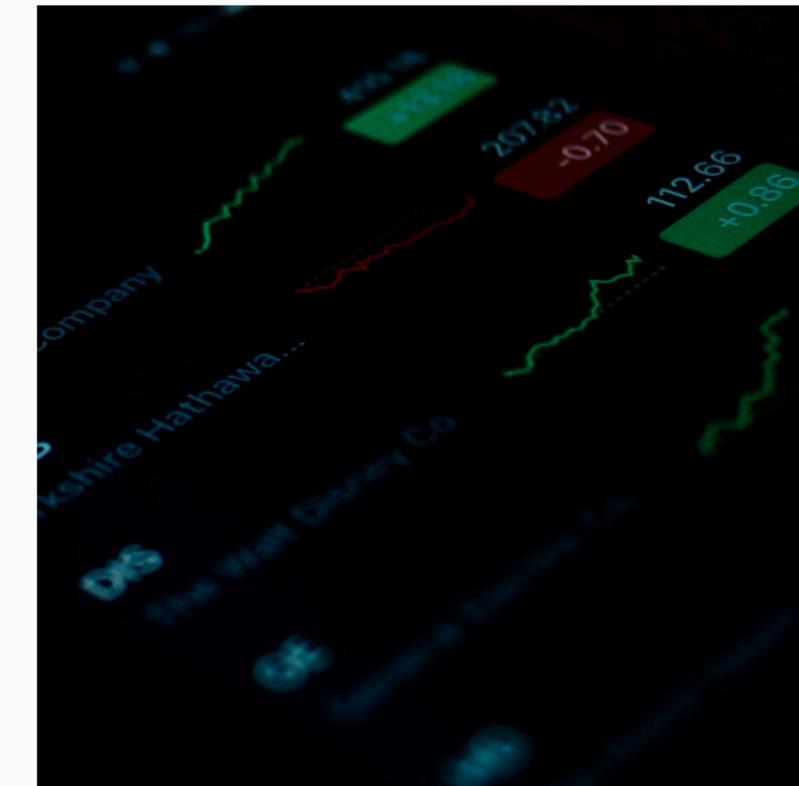
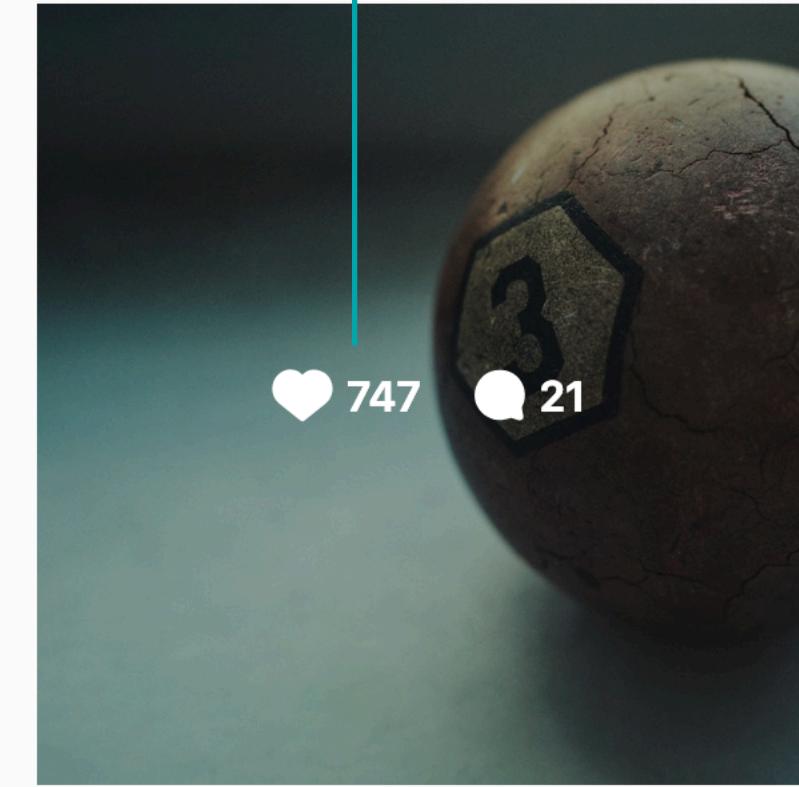
```
git checkout .  
git checkout master
```

.m-pictures__item

.m-pictures__picture



.m-pictures__stat



.m-pictures__overlay



~ git checkout checkpoint/4-pictures

.m-footer

.m-footer__links

.m-footer__inner

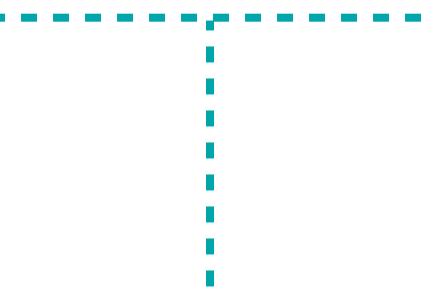
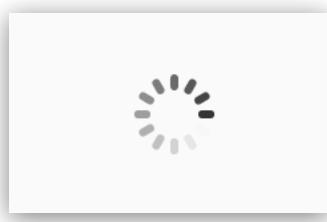


.m-footer__copyright



~ git checkout checkpoint/5-footer

.a-loader



.a-loader—centered



~ git checkout checkpoint/6-loader

