

# CSS COMPONENTS DESIGN

# OBJECTIVES OF TODAY

- Improve your components culture
  - Code your own CSS library
  - Build pages using components
- 
- **First goal:** code [this CSS components library](#)
  - **Second goal:** build pages like [Airbnb Home](#) or [Product Hunt dashboard](#) using components.

# COMPONENTS = LEGO BRICKS

navbar

button

banner

card

avatar

tab

tab

tab

tab

# **USED TO BUILD PAGES**

# **10 COMPONENTS => 90% OF YOUR APP DESIGN**

That's the secret of frontend developers

# **COMPONENTS CULTURE**

# IMAGES



**Avatar**



**Thumbnail**

# BUTTONS

Start now

Twitter

SIGN UP

Google

Write a story

Medium

Free trial

treehouse

# FORMS (VERTICAL OR INLINE)

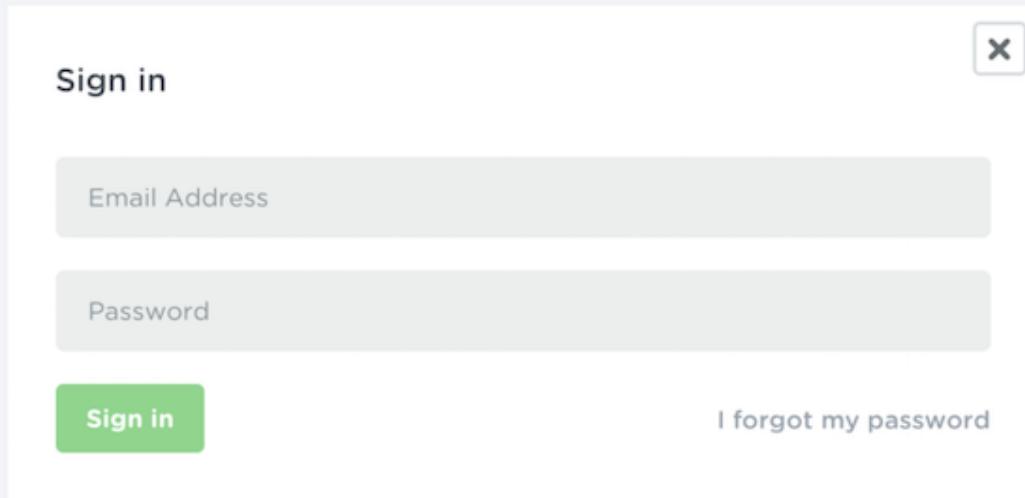
## Login form (treehouse)

Sign in

Email Address

Password

[I forgot my password](#)



## Search form (airbnb)

Où voulez-vous aller ?	Arrivée	→ Départ	1 voyageur	Rechercher
------------------------	---------	----------	------------	------------

# TABS / NAV

Medium

STAFF PICKS   TOP STORIES   BOOKMARKS

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ProductHunt

6,418  
Upvoted

509  
Submitted

35  
Made

27  
Collections

23,346  
Followers

1,413  
Following

TWEETS  
4 021

ABONNEMENTS  
1 783

ABONNÉS  
3 972

AIMÉS  
5 218

LISTES  
10

Twitter

# NAVBAR

Medium



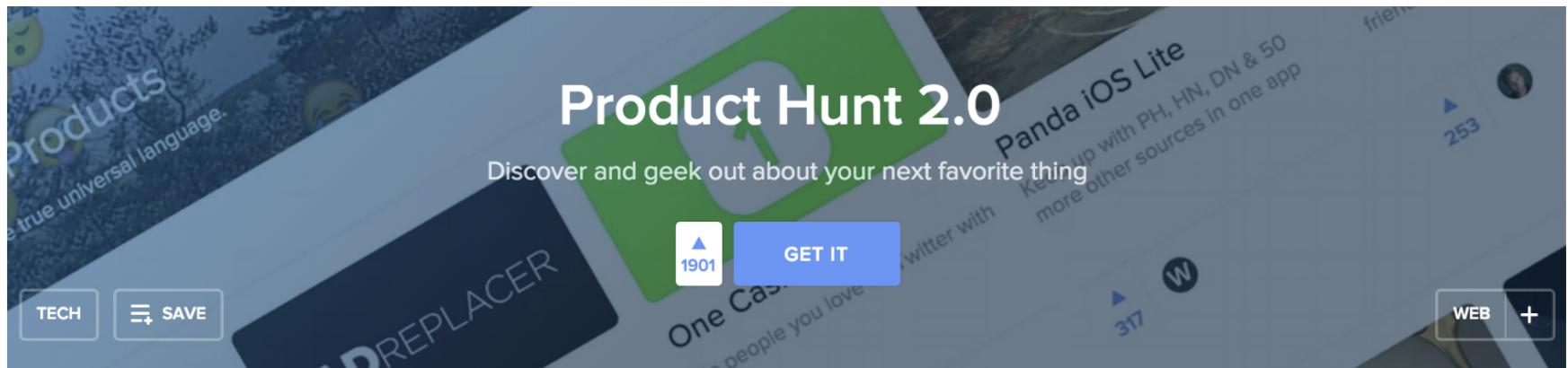
Twitter



Github



# BANNER



# CARD

The image displays a grid of six cards from the Dribbble website, showcasing various design projects:

- Operator** by Goutham: A collection of small icons representing different types of plants.
- Justas Galaburda**: An illustration of books and papers, with the text "HOW TO ACHIEVE MORE IN 2016".
- Joe White**: A logo for "THE FIKA COMPANY COFFEE ROASTERY" featuring a bear silhouette.
- Goutham**: A purple calendar interface for January.
- Dann Petty**: A screenshot of a complex software interface with multiple windows and data tables.
- Studio~JQ**: A circular graphic showing a map of Alta, Utah, with a central value of 442,116 and text indicating PAF: 97.8.

*Dribbble*

# CARD



90 € ⚡

Superbe gîte à Rome  
Logement entier · ★★★★★ · 213 commentaires



69 € ⚡

Colosseo, Hidden Gem  
Logement entier · ★★★★★ · 105 commentaires



90 €

Chic Artist's Loft in Rome Center  
Logement entier · ★★★★★ · 112 commentaires



57 € ⚡

Penthouse Tiburtina Station Center  
Logement entier · ★★★★★ · 89 commentaires

# CARD



Clash Royale

The next game from Supercell,  
makers of Clash of Clan



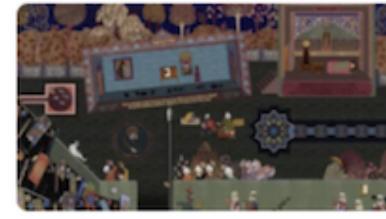
Follow The Dots

AN ENDLESS FINGERLESS  
RUNNER GAME



Ginger Roll

Save the world from evil Iblis in  
this cute arcade platform



THE CAT AND THE  
COUP

A documentary videogame on 28  
Mordad coup

▲  
8



▲  
4



▲  
4



▲  
2



*Product Hunt*

# LIST

- ▲ 77



**Faraday Future FFZERO1**

Groundbreaking all electric race car


- ▲ 48

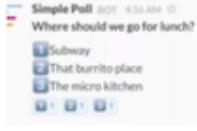


**Human for Android**

Compare your daily activity to people around you



ANDROID
- ▲ 61

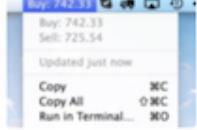


**Simple Poll**

The easiest way to create polls in Slack



SLACK
- ▲ 38



**BitBar**

Put the output from any script in your Mac OS X Menu Bar



MAC
- ▲ 49



**Hu:toma**

Emotionally evolved AIs for personal or business use



WEB

# DROPDOWN

A screenshot of the Medium.com website interface. At the top, there is a search bar labeled "Search Medium" with a magnifying glass icon, a button labeled "Write a story", and a circular profile picture of a person with a green notification badge containing the number "4". A vertical dropdown menu is open from the profile picture, listing the following options:

- New story
- Import story
- Drafts and stories
- Stats
- Publications

---

- Profile
- Settings
- Sign out

# **COMPONENTS - CSS ORGANIZATION**

# ORGANIZE CSS BY COMPONENTS

- Yesterday: one file `style.css`
- Today: one file **per component**

```
.  
|   └── css  
|       ├── components  
|       |   ├── avatar.css  
|       |   ├── button.css  
|       |   └── card.css  
|       └── style.css  
└── index.html
```

# STYLE.CSS IMPORTS ALL OTHER CSS FILES

```
/* style.css */
/* --- Import Google Fonts stylesheets --- */
@import url("http://fonts.googleapis.com/
css?family=Open+Sans:400,300,700|Montserrat:400,700");

/* --- Import Components stylesheets --- */
@import url("components/avatar.css");
@import url("components/button.css");

/* --- Fonts --- */
body {
    font-family: "Open Sans", "Helvetica", "sans-serif";
}
h1, h2, h3 {
    font-family: "Montserrat", "sans-serif";
}
```

Then **one CSS link only** in the HTML page

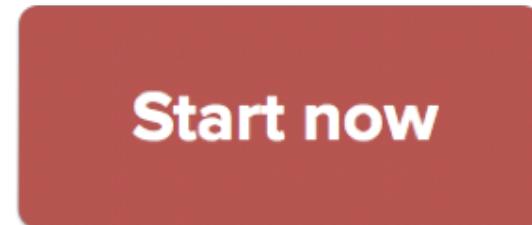
```
<link rel="stylesheet" href="css/style.css">
```

# BASIC COMPONENT

Let's **live-code** **avatar** and **button** components



Avatar



Start now

Button

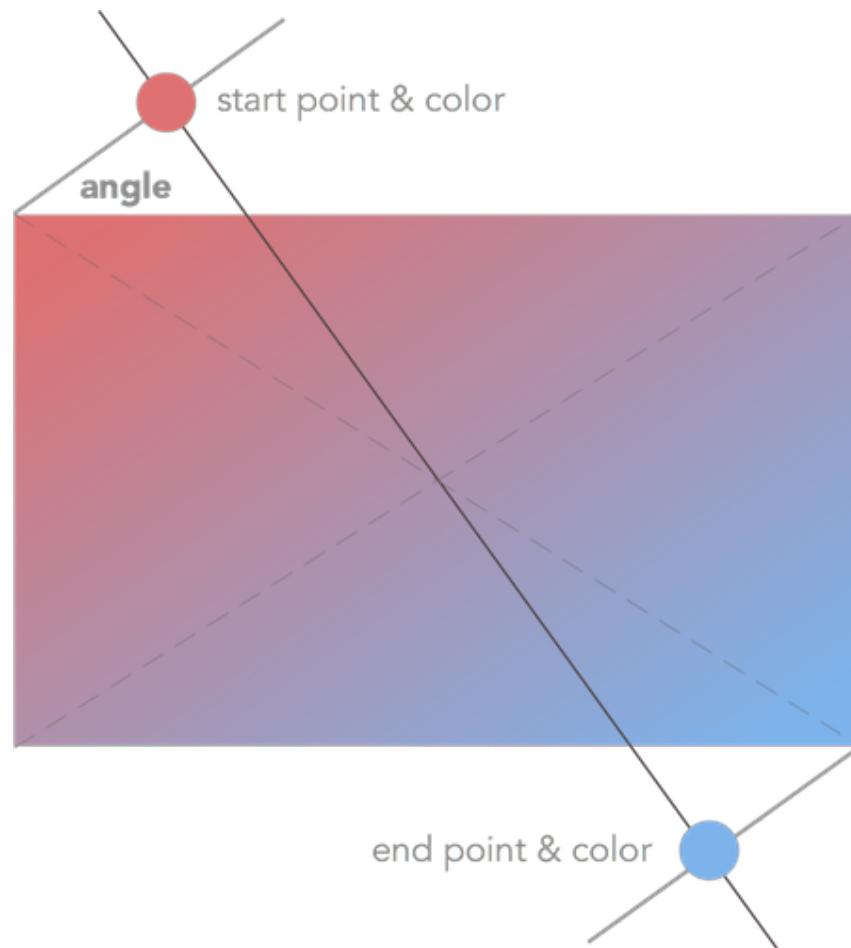
# ADVANCED CSS PATTERNS

For advanced components, we need advanced techniques

# 1 - GRADIENT FILTER

- Background pictures are too contrasted or of poor quality.
- They need a filter.

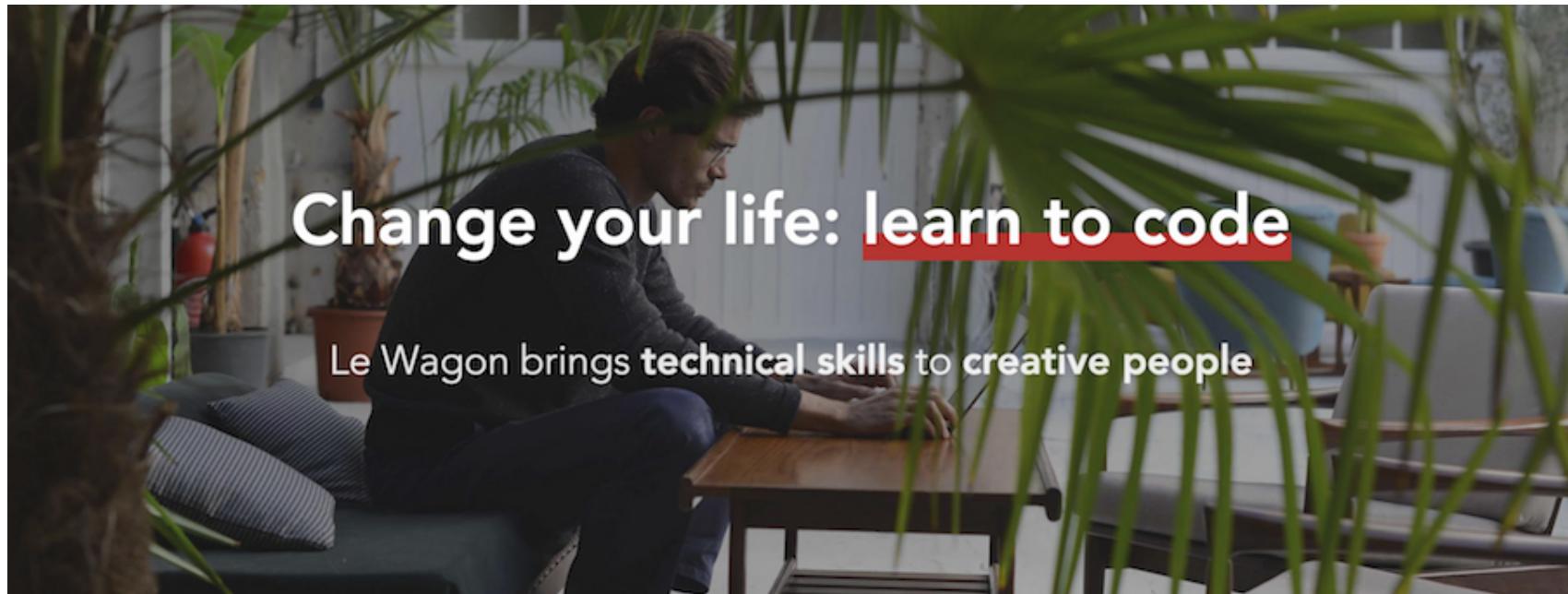
# LINEAR GRADIENT - THEORY



Forget about theory, just play with parameters in the

# LINEAR GRADIENT - CODE

```
.banner {  
  background-image: linear-gradient(135deg, rgba(0,0,0,0.8) 0,  
                                    url('background.jpg'));  
  background-size: cover;  
}
```



# USER-UPLOADED PICTURES

```
.banner {  
  background-size: cover;  
}
```

Put background image and gradient **in your HTML**

```
<div class="banner" style="background-image: linear-gradient(  
  ...  
</div>
```

## **2 - RELATIVE > ABSOLUTE PATTERN**

When you need to position elements precisely in a div

# POSITION RELATIVE

- Offset from **initial** position
- A way to **pin an element**



Let's offset the logo on <https://www.lewagon.com/>

# POSITION ABSOLUTE

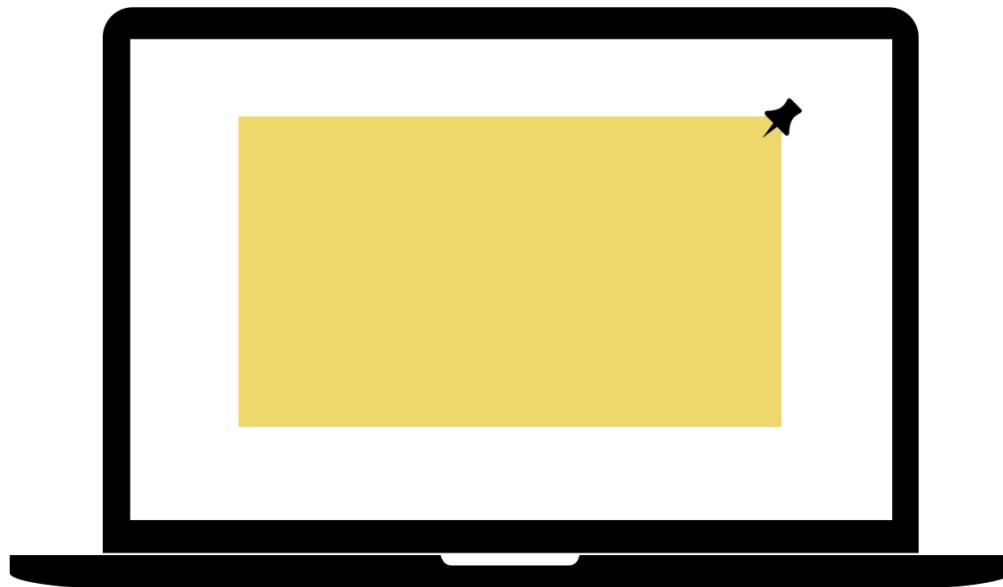
- Offset from **1st positioned parent**
- If no pinned parent => **body**

# **RELATIVE > ABSOLUTE**

The ultimate CSS pattern.

# RELATIVE > ABSOLUTE

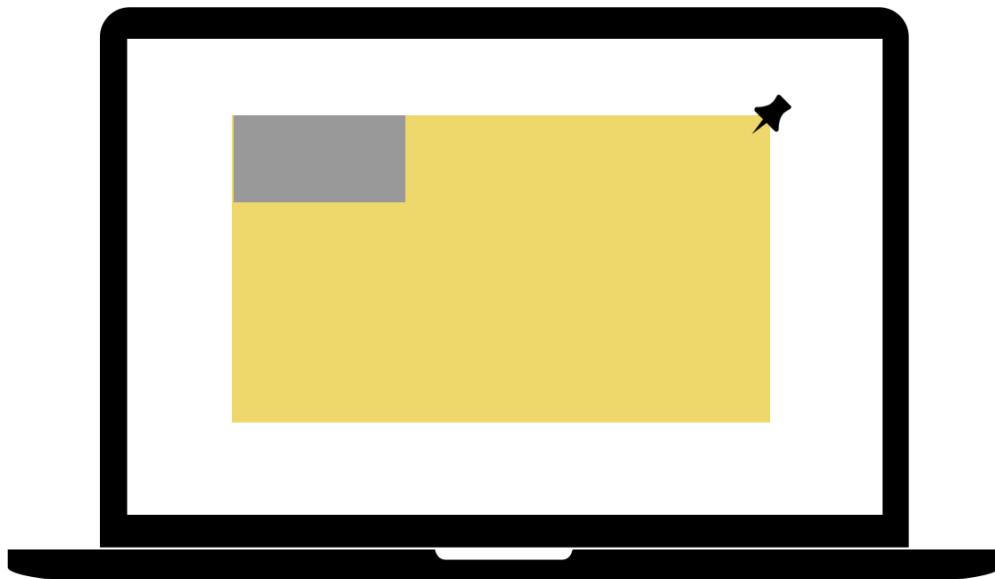
1) Pin a div with `position: relative`



```
#relative {  
  position: relative;  
}
```

# RELATIVE > ABSOLUTE

2) Put an inside div with `position: absolute`

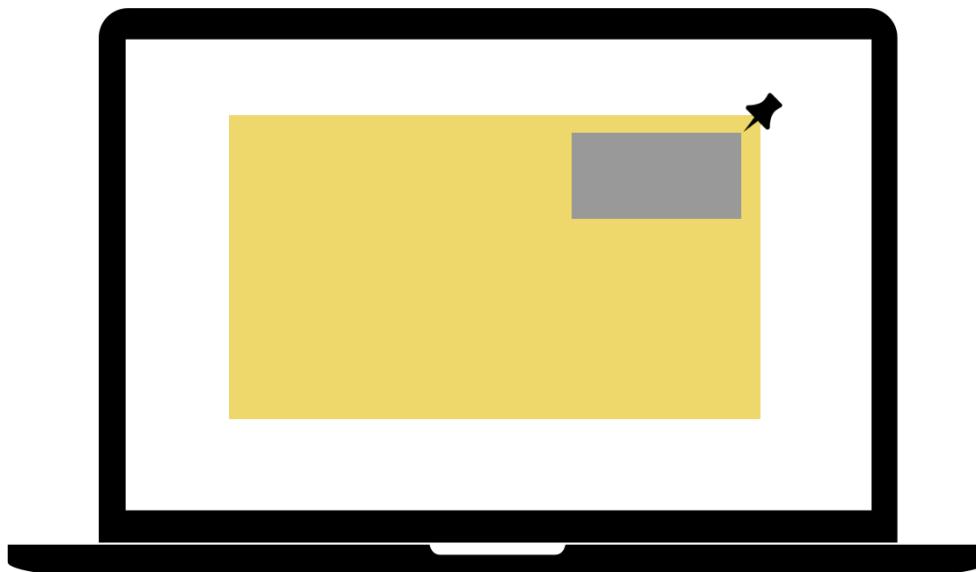


```
#relative {  
  position: relative;  
}
```

```
#absolute {  
  position: absolute;  
}
```

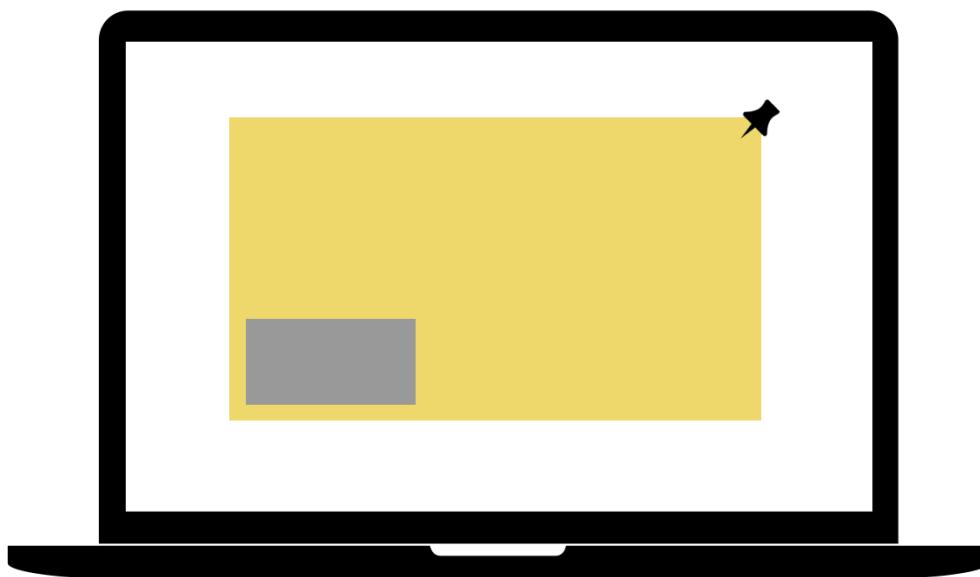
# RELATIVE > ABSOLUTE

3) Now you can play with inside div



```
#relative {  
    position: relative;  
}  
  
#absolute {  
    position: absolute;  
    top: 10px;  
    right: 10px;  
}
```

# RELATIVE > ABSOLUTE



```
#relative {  
    position: relative;  
}  
  
#absolute {  
    position: absolute;  
    bottom: 10px;  
    left: 10px;  
}
```

# CARD DESIGN

Let's **live-code** a **card** component using:

1. A linear gradient filter
2. The **Relative > absolute** pattern



# **FLEXBOX**

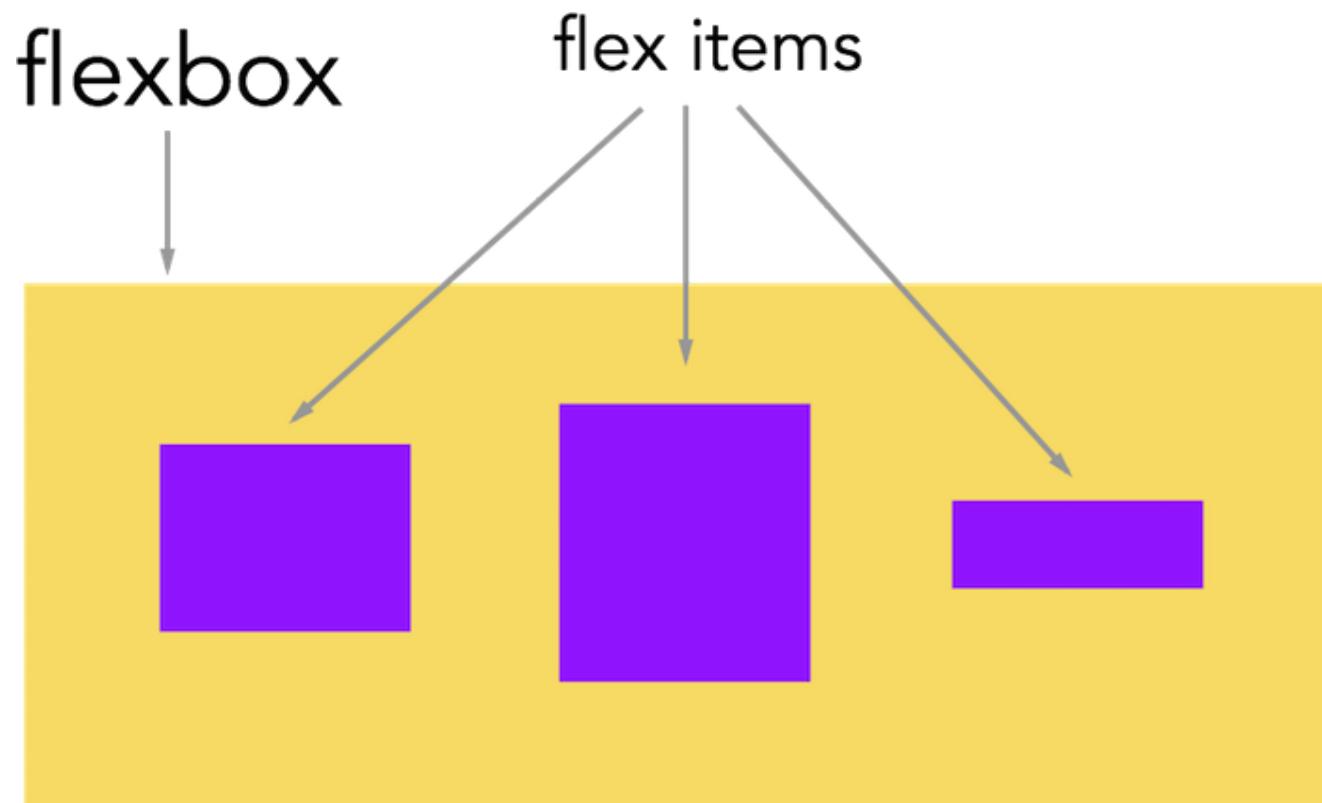
## **AWESOME FOR:**

- Vertically align items
- Build small component grids (ex: for tabs)

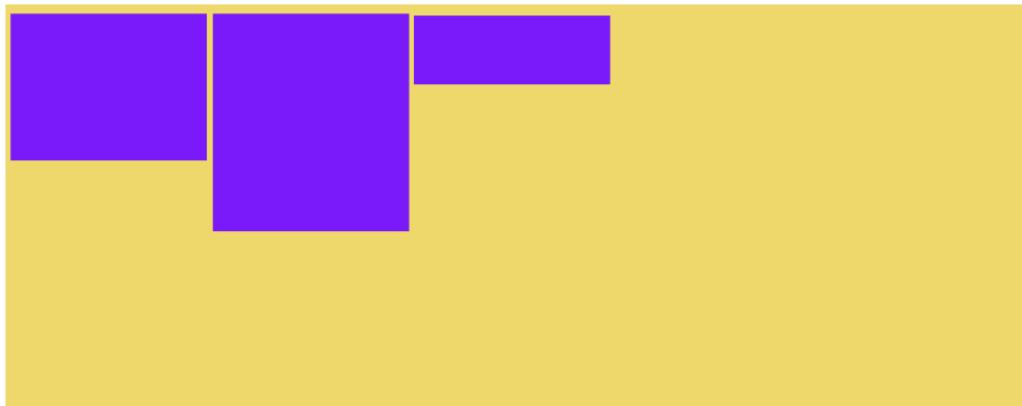
## **NOT ADAPTED FOR:**

- Positioning in corners: use the Relative > Absolute pattern
- For the main responsive grid, use Bootstrap

# FLEXBOX - VOCABULARY



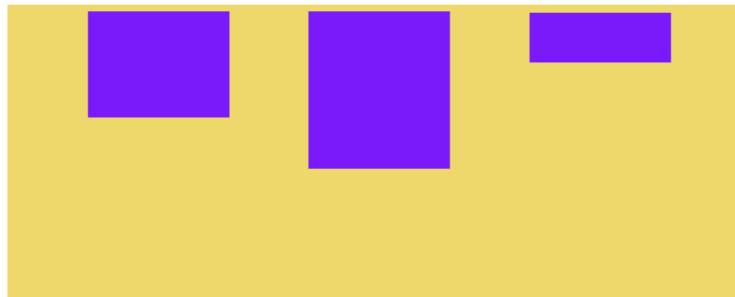
# FLEXBOX - BASICS



```
.flexbox {  
  display: flex;  
}
```

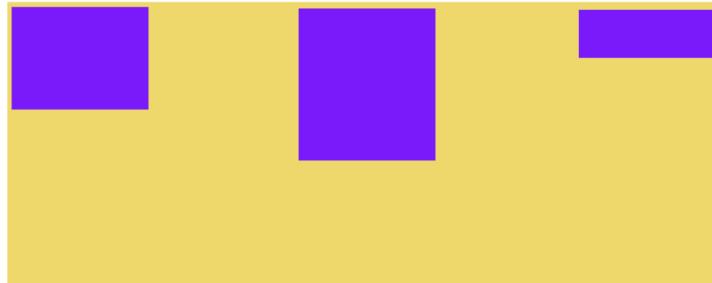
```
.flex-item {  
  flex: 0 0 20%;  
}
```

# FLEXBOX - SPACE AROUND



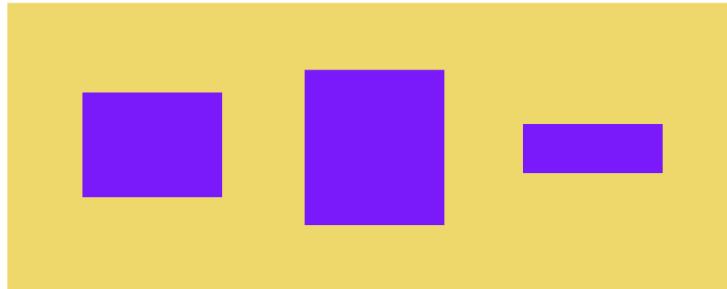
```
.flexbox {  
  display: flex;  
  justify-content: space-around;  
}  
  
.flex-item {  
  flex: 0 0 20%;  
}
```

# FLEXBOX - SPACE BETWEEN



```
.flexbox {  
  display: flex;  
  justify-content: space-between;  
}  
  
.flex-item {  
  flex: 0 0 20%;  
}
```

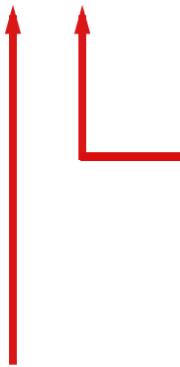
# FLEXBOX - ALIGN ITEMS



```
.flexbox {  
  display: flex;  
  justify-content: space-around;  
  align-items: center;  
}  
.flex-item {  
  flex: 0 0 20%;  
}
```

# FLEXBOX - ITEM BEHAVIOR

```
.flex-item {  
  flex: X X 200px;  
}
```



**flex-shrink:** can I shrink?

**flex-grow:** can I grow?

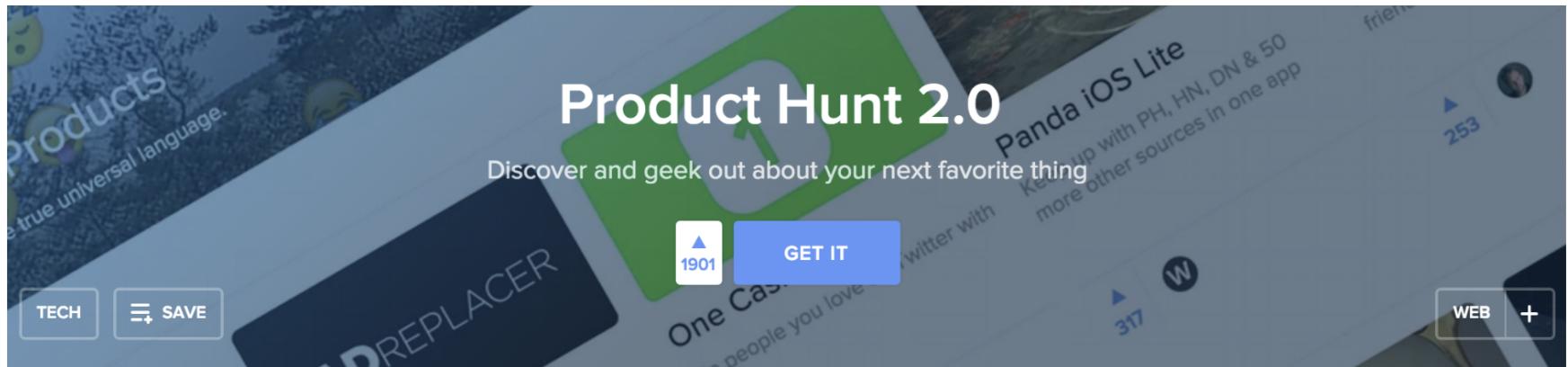
# FLEXBOX - GROW EXAMPLE



```
.flexbox {  
  display: flex;  
  align-items: center;  
}  
.flex-item {  
  flex: 0 0 20%;  
}  
.flex-body {  
  flex: 1 0 auto;  
}
```

# FLEXBOX - BANNER

Let's **live-code** a **banner** (centering content on horizontal & vertical axis)



# FLEXBOX - TABS

Let's **live-code** a tabs building a simple grid in flexbox

# FLEXBOX - LIST

Let's **live-code** **list items** setting a **flex-grow** on the central description.

# BUILDING PAGES WITH COMPONENTS

# WHAT'S A LAYOUT?

- Components = **elementary bricks**
- Layout = **global structure**

# **TWO FUNDAMENTAL LAYOUT COMPONENTS**

## **CONTAINER & WRAPPER**

# CONTAINER

Full-width content is ugly. You should put page content in a container.

```
.container {  
  margin: 0 auto;  
  width: 970px;  
}
```

# WRAPPER

You often need a background color (full-width) around content.

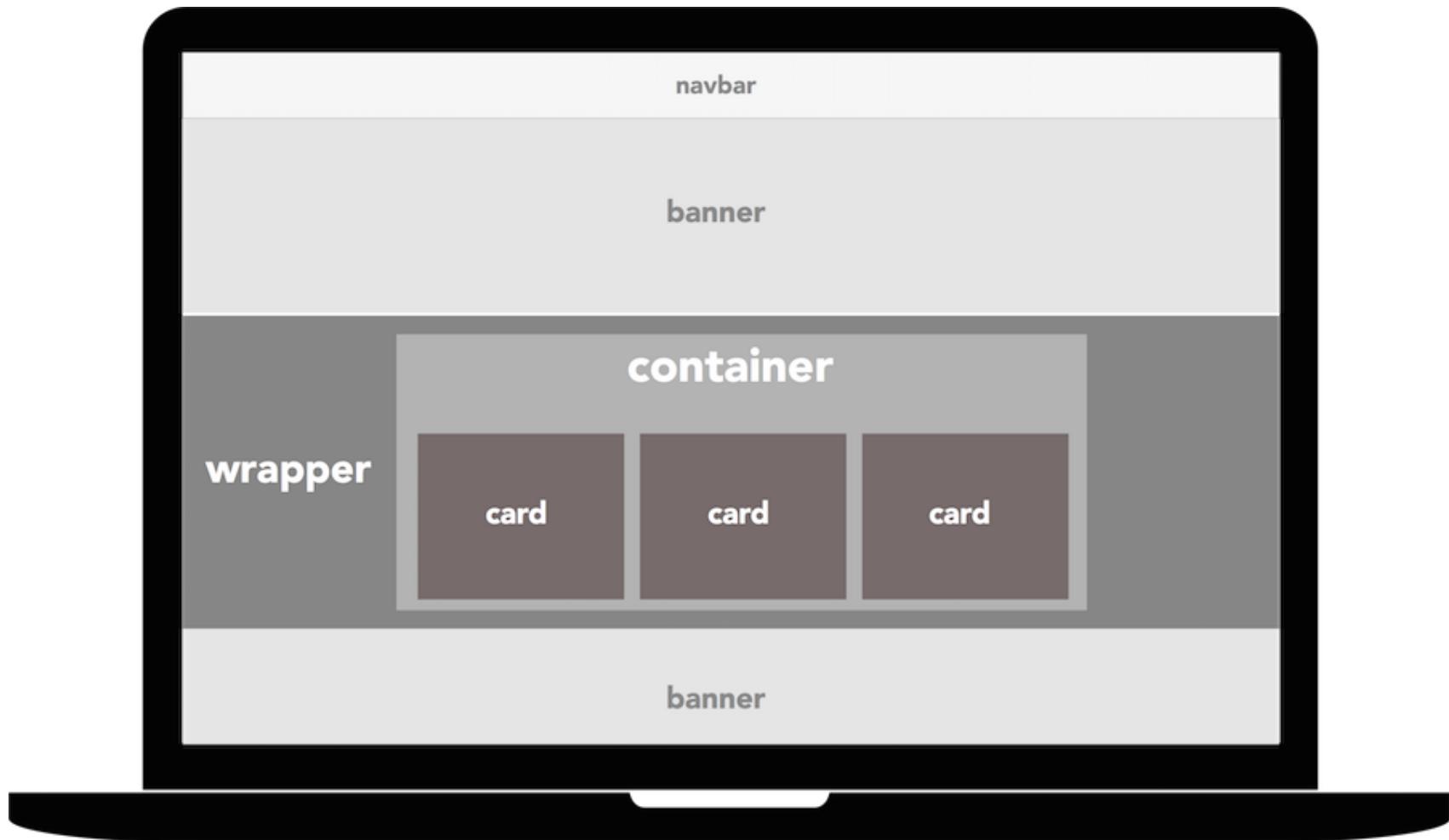
```
.wrapper {  
    background-color: lightgrey;  
}
```

# **LAYOUT - USE CASES**

**Can you decompose each page into simple components?**

# AIRBNB HOME?

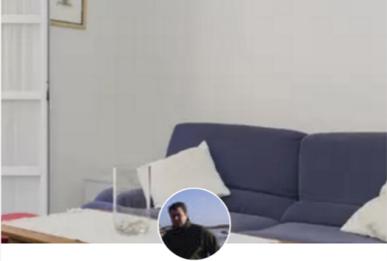
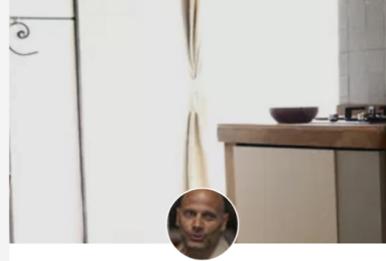
# SOLUTION



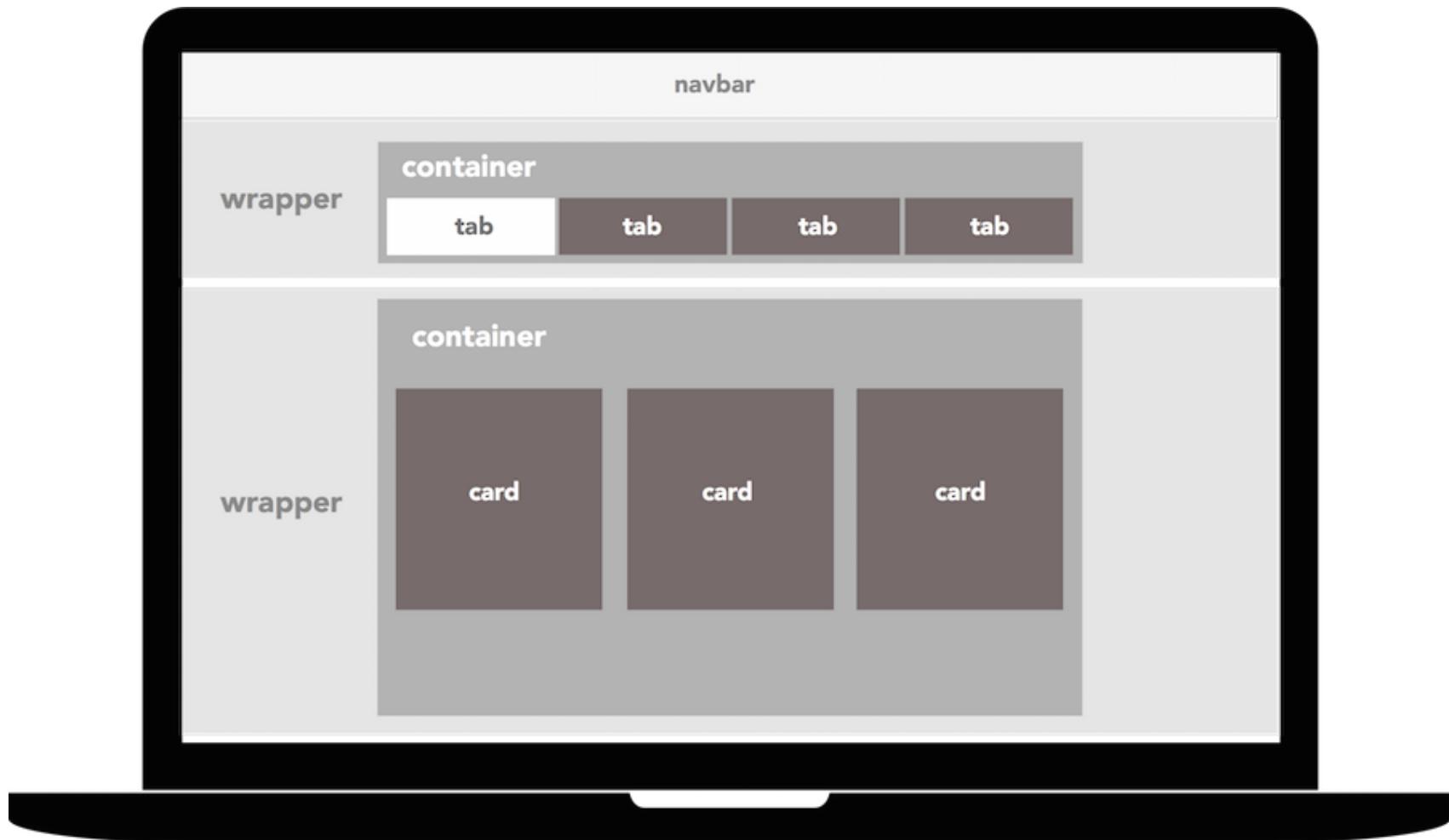
# AIRBNB DASHBOARD?

The screenshot shows the Airbnb dashboard interface. At the top, there's a search bar with the placeholder "Where are you going?" and a user profile for "Boris". Below the header is a navigation bar with links: Dashboard, Inbox, Your Listing, Host Assist, Your Trips (which is highlighted), Profile, Account, and Travel Credit.

The main content area is titled "Past Trips" and displays three trip cards:

- Sevilla**  
May 21 - 24, 2015 · 2 guests  
Centro, zona Encarnación  
  
[See Trip Details](#)  
[View Receipt](#)  
[View Invoices](#)
- Rome**  
Dec 19 - 23, 2014 · 2 guests  
Art beauty apartment Colosseum  
  
[See Trip Details](#)  
[View Receipt](#)  
[View Invoices](#)
- London**  
Nov 29 - 30, 2014 · 2 guests  
Luxury Kingsize private entry/bath!  
  
[See Trip Details](#)  
[View Receipt](#)  
[View Invoices](#)

# SOLUTION



# PRODUCT HUNT DASHBOARD?



**papillard**  
co-founder @LeWagon

<b>350</b> Upvoted	<b>456</b> Submitted	<b>189</b> Followers	<b>13</b> Following
-----------------------	-------------------------	-------------------------	------------------------

▲ 95



**Kudoz**  
Tinder for job search

♥ ⌂ ★

▲ 67



**uSlide**  
Youtube sucks for education

♥ ⌂ ★

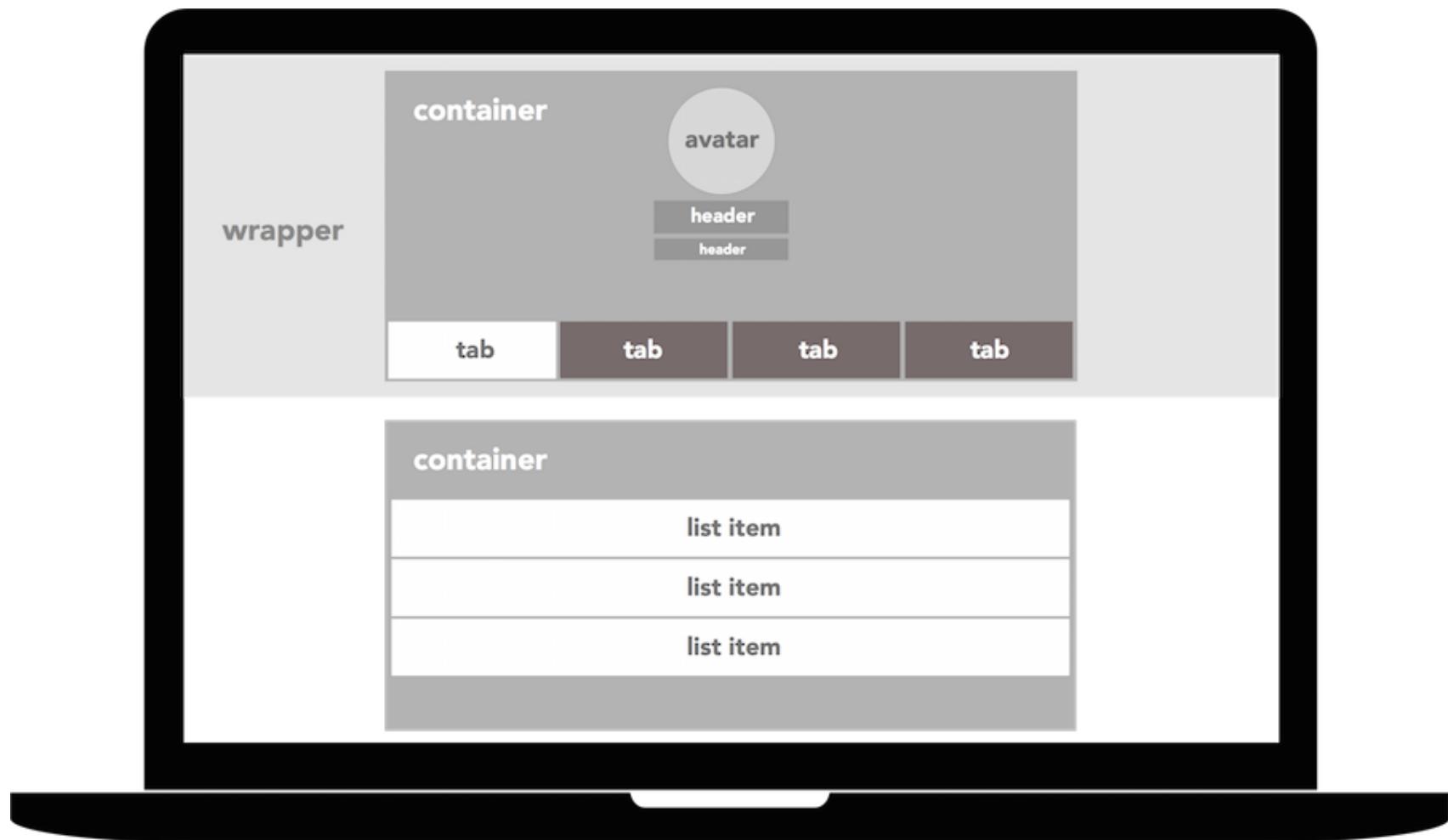
▲ 55



**Roadstr**  
Rent a vintage car

♥ ⌂ ★

# SOLUTION



# MORE ADVANCED LAYOUT

Wait for Bootstrap grid tomorrow.

# **LET'S BUILD YOUR CSS COMPONENTS LIBRARY!**