

# Future proof layouts with flexbox

*A workshop by [@goodbytes](#)  
[workshops.goodbytes.be](#)*

# Why flexbox?

- because float: left; for layouts is a hack!
- anyone here love clear fixing?
- flexbox is ... flexible
- browser support is great
- <http://caniuse.com/#search=flexbox>

# The imd Gazette



**Make up your own title here**

Robby V.  
Paterfamilias

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Joris H.  
Creativity Gym Drill Instructor

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David H.  
Motivation Machine

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# Does flexbox replace floats?

- yes ... but.
- flexbox is perfect for UI containers / modules like e.g. a photo gallery, a navigation menu, ...
- it's less ideal for designing full page layouts, that's where de css layout module will come in (but that's not quite ready yet)
- so, we'll be using a mixture of flexbox and floats for the best results right now

# display: flex;

- this is where it all starts
- applied to the container element
- all **direct children** will become flex elements

# flex-direction

- property for the flex container
- row
- row-reverse
- column
- column-reverse

# flex-wrap

- property for the flex container
- what should happen when elements don't fit inside the container anymore?
- nowrap
- wrap
- wrap-reverse

# justify-content

- property for the flex container
- the horizontal alignment of your container
- flex-start
- flex-end
- center
- space-around
- space-between

# align-content

- property for the flex container
- the vertical alignment of your elements inside the container
- works only when you have more than one row or column
- flex-start
- flex-end
- center
- space-around
- space-between
- stretch

# align-items

- property for the **flex container**
- the vertical alignment of your flex children
- flex-start
- flex-end
- center
- space-around
- space-between
- stretch

# align-self

- property for the flex items
- vertical alignment of an individual flex item
- auto
- flex-start
- flex-end
- center
- baseline
- stretch

# flex-grow

- property for the flex items
- default: 0
- how much space should a flex item take up inside a flex container
- “*what should I do when there is extra space available?*”
- use numbers like 1, 2, 2.5 to define proportions

# flex-shrink

- property for the flex items
- default: 1
- shrink factor when there isn't enough space in the container left for the elements to show
- “*what should I do when there is not enough space available?*”
- how much should an element shrink

# flex-basis

- property for the flex items
- can be compared to the min-width of an element
- what is the minimum size an element should be before wrapping

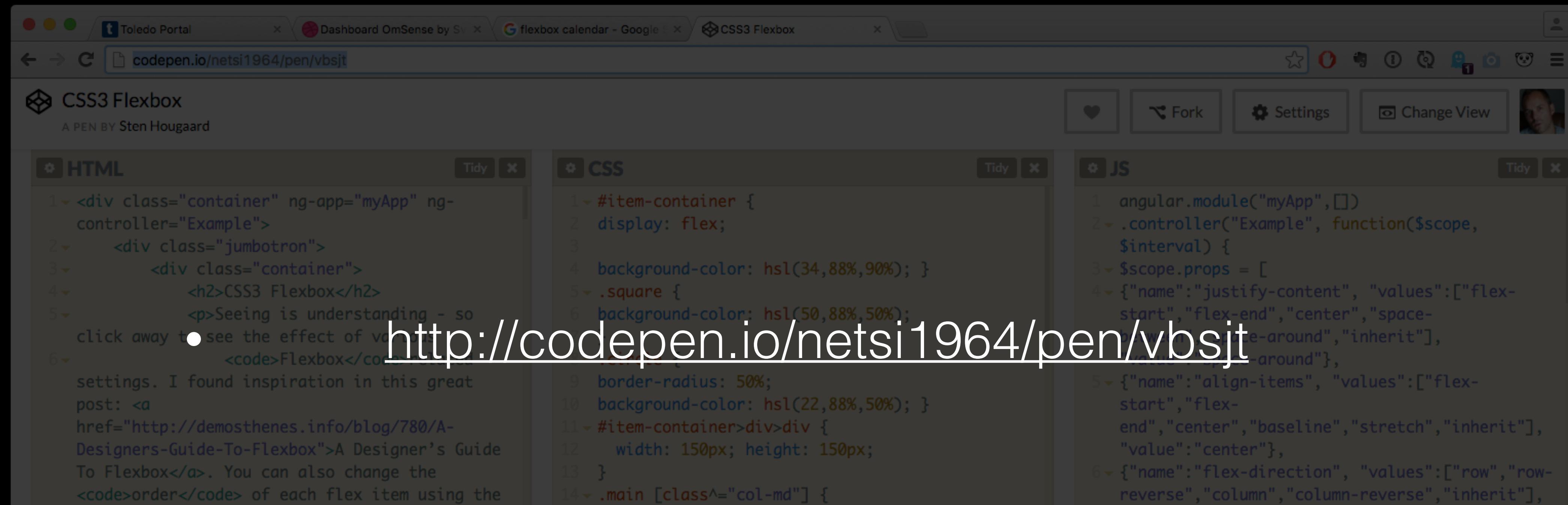
# flex

- property for the flex items
- this is just shorthand
- `flex: flex-grow [flex-shrink] [flex-basis];`

# order

- property for the flex items
- use numbers to define the order in which to show a flex item
- useful for reordering elements
- pretty difficult to achieve when using floats

# Seeing is understanding



# FLEXBOX FROGGY

◀ Level 1 of 24 ▶

Welcome to Flexbox Froggy, a game where you help Froggy and friends by writing CSS code! Guide this frog to the lilypad on the right by using the **justify-content** property, which aligns items horizontally and accepts the following values:

- **flex-start**: Items align to the left side of the container.
- **flex-end**: Items align to the right side of the container.
- **center**: Items align at the center of the container.
- **space-between**: Items display with equal spacing between them.
- **space-around**: Items display with equal spacing around them.

For example, **justify-content: flex-end;** will move the frog to the right.

```
1 #pond {  
2   display: flex;  
3   |  
4 }  
5  
6  
7  
8  
9  
10
```

Next



Flexbox Froggy is created by [Thomas Park](#) • [GitHub](#) • [Twitter](#)

[English](#) • [Español](#) • [Français](#) • [Deutsch](#) • [Português](#) • [Italiano](#) • [Polski](#) • [Česky](#) • [Lietuvių](#) • [Русский](#) • [Türkçe](#) • [فارسی](#) • [简体中文](#) • [한국어](#)  
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# WHAT THE FLEXBOX?!

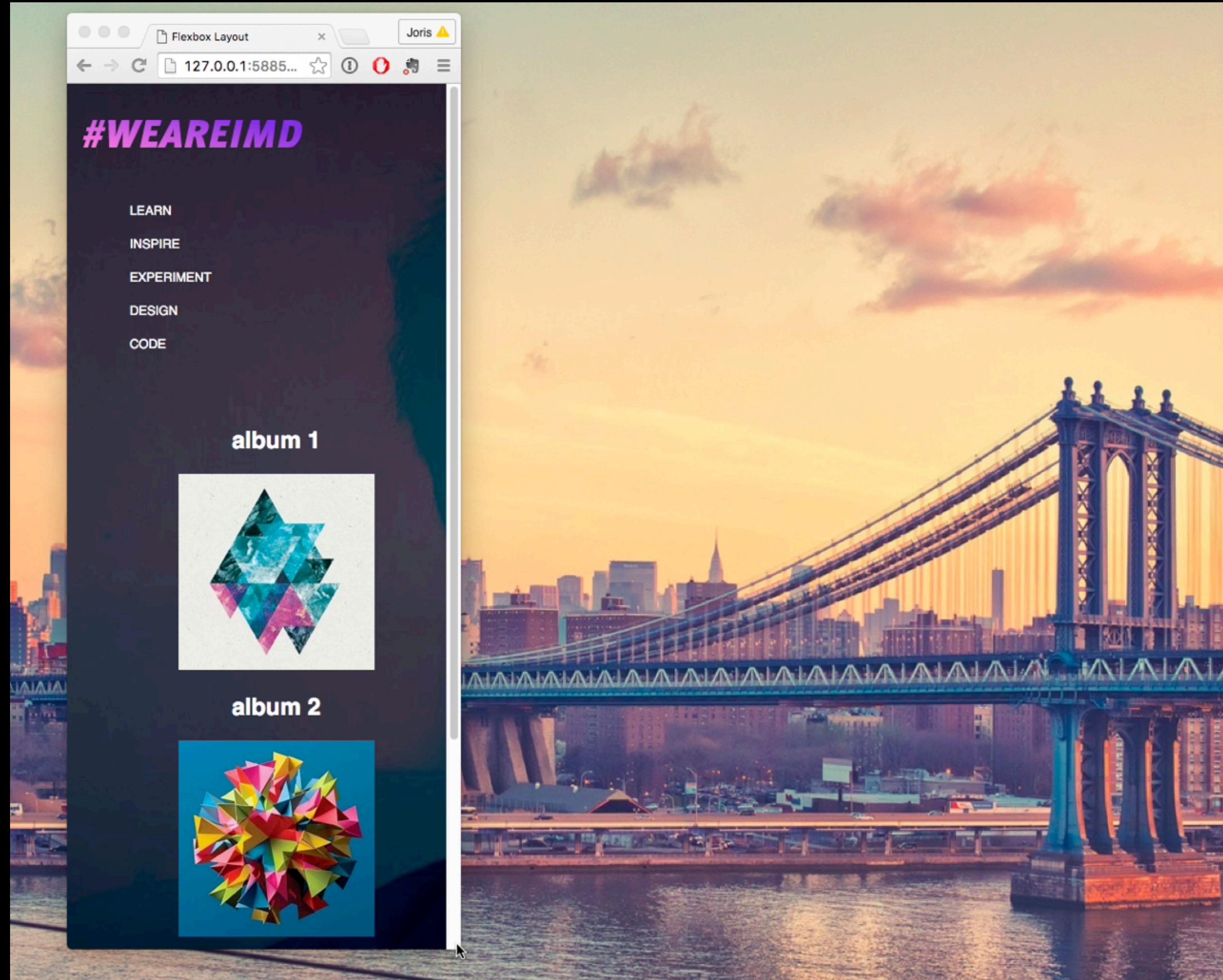
A simple, free 20 video course that will help you master CSS Flexbox!

You are authenticated! Happy Watching!

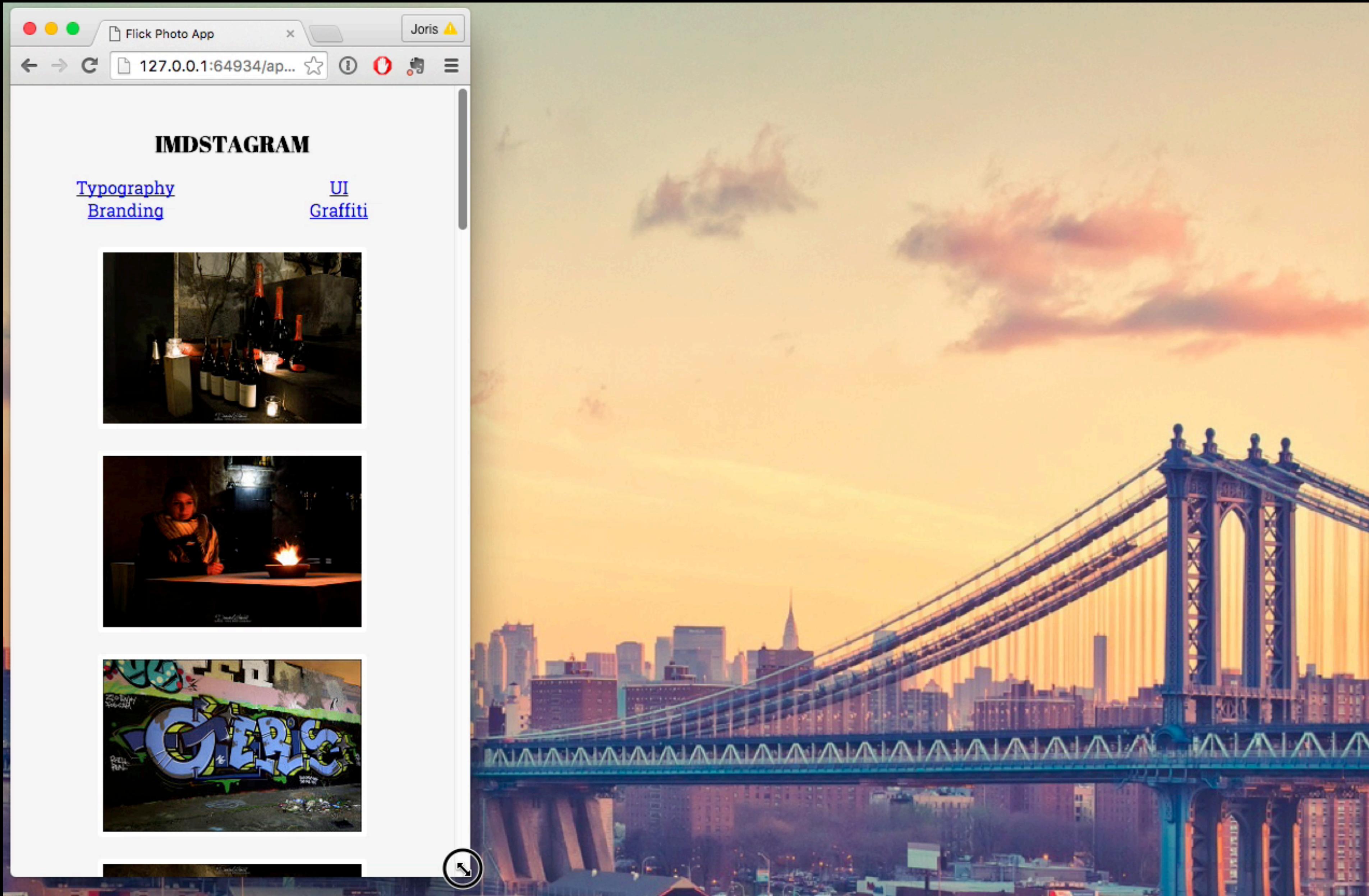
Join [36,538](#) others in learning with Wes Bos!



<http://codepen.io/goodbytes/pen/NxeNzQ>



<http://codepen.io/goodbytes/pen/GobRKW?editors=1100>



# To pass this level

- you went through <http://flexboxfroggy.com/>
- you watched the videos at [flexbox.io](https://flexbox.io) [yes, flex box will be in the test later on and you need to use it in your projects]
- you re-created the layouts seen on the previous slides
  - uploaded it to your private github portfolio in a folder “week2/flexbox - use the codepen starter template
  - uploaded it to your private github portfolio in a folder “week2/IMDstagram - use the codepen starter template
- previews of the final result can be seen on videos on toledo

# Must read/watch resources

- <http://flexboxfroggy.com/>
- [http://flexbox.io/#/ \[videos\]](http://flexbox.io/#/)
- <https://css-tricks.com/snippets/css/a-guide-to-flexbox/>