



# CSS (Part 4)

## Layout & Frameworks

Dr. Omar Hammad





# layout

/'leɪəʊt/

*noun*

the way in which the parts of something are arranged or laid out.  
"the road layout"

- the way in which text or pictures are set out on a page.  
"the layout is uncluttered and the illustrations are helpful"
- the process of setting out material on a page.  
"doing layout for newspapers and magazines"

Similar:

arrangement

geography

design

organization

make-up

shape





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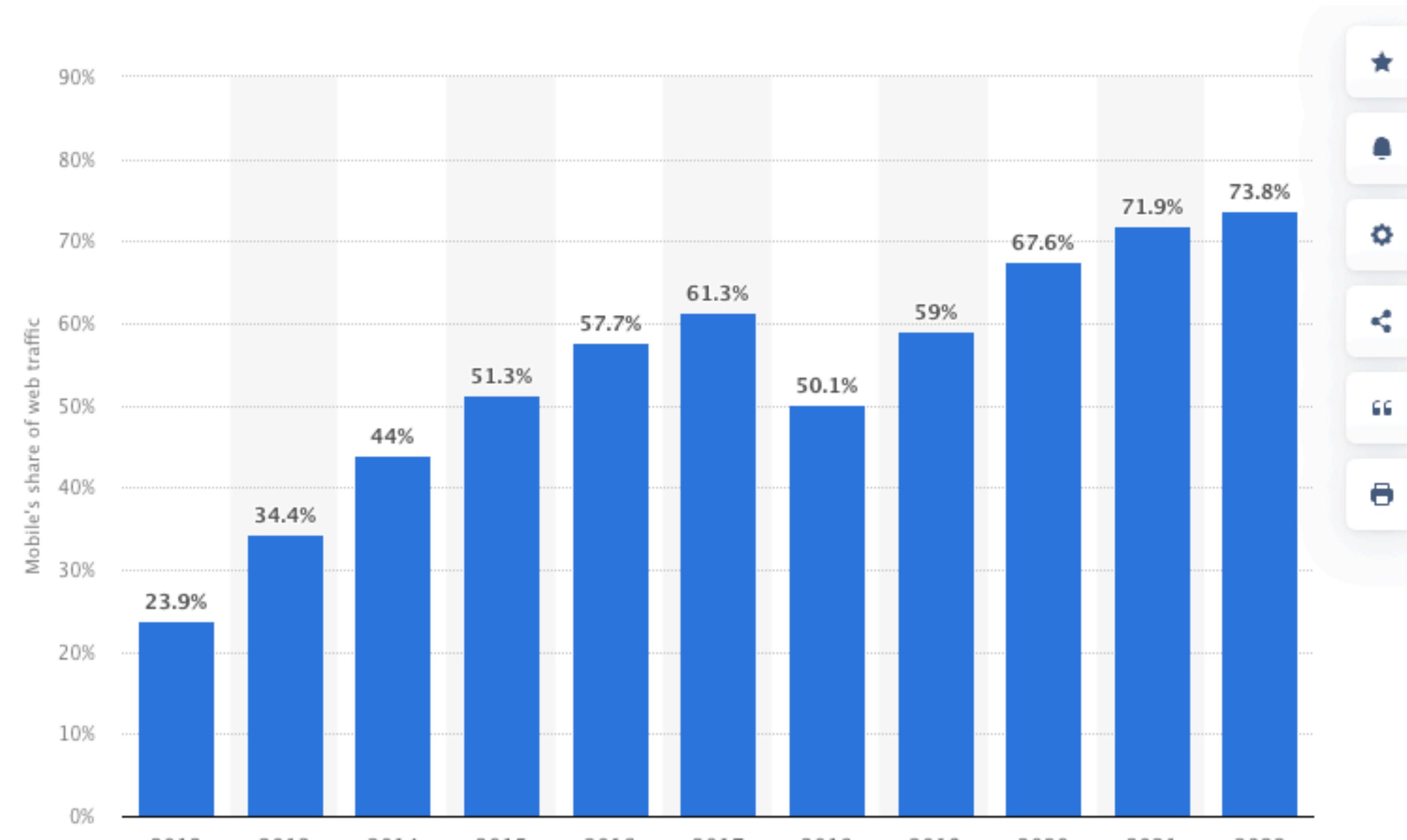
organization

make-up

shape



# Mobile Web Traffic



© Statista 2023

[Additional Information](#)

[Show source](#)

# Making a website responsive..

Flow of  
elements

Position  
elements

Floating  
Elements

Flexbox  
Layout

Viewport  
Settings

Media  
Queries

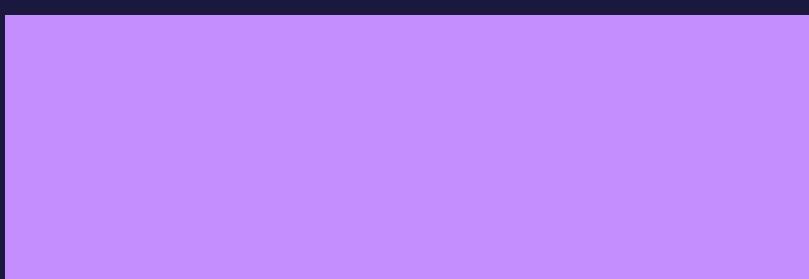
CSS  
Frameworks

```
<div> <h1> <h2> <h3> <h4> <h5> <h6> <p> <ul> <ol>  
<li> <table> <tr> <td> <th> <form> <button>  
<option> <blockquote> <pre>
```

**Block**

```
<span><a> <img> <input> <textarea> <label>  
<select> <strong> <em> <cite> <abbr> <code> <sup>  
 <sub>
```

**Inline**



# Making a website responsive..



Flow of  
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Position  
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Floating  
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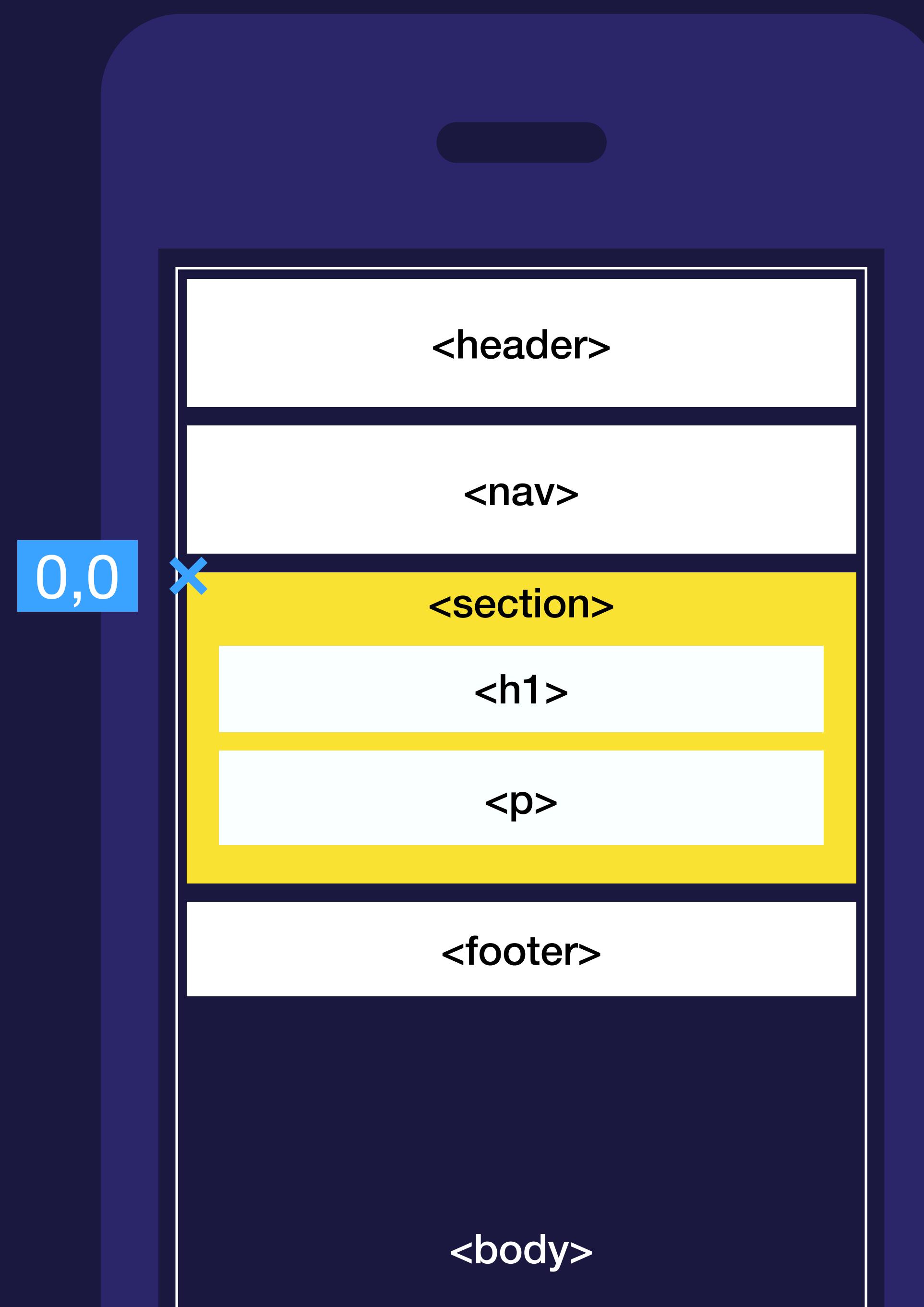
Media  
Queries

CSS  
Frameworks

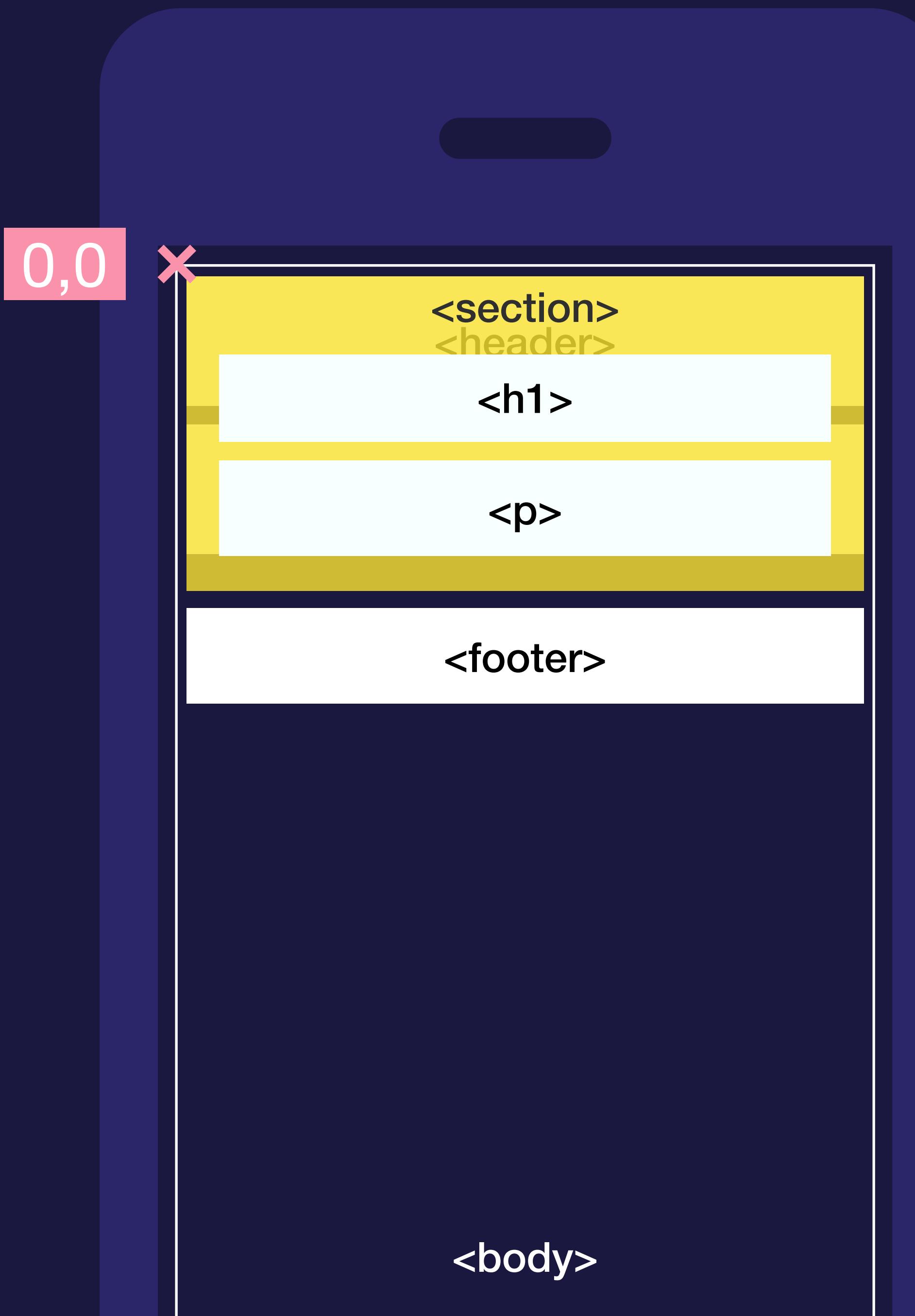
# positioning an element

```
div {  
  position: relative  
}  
  
relative absolute fixed
```

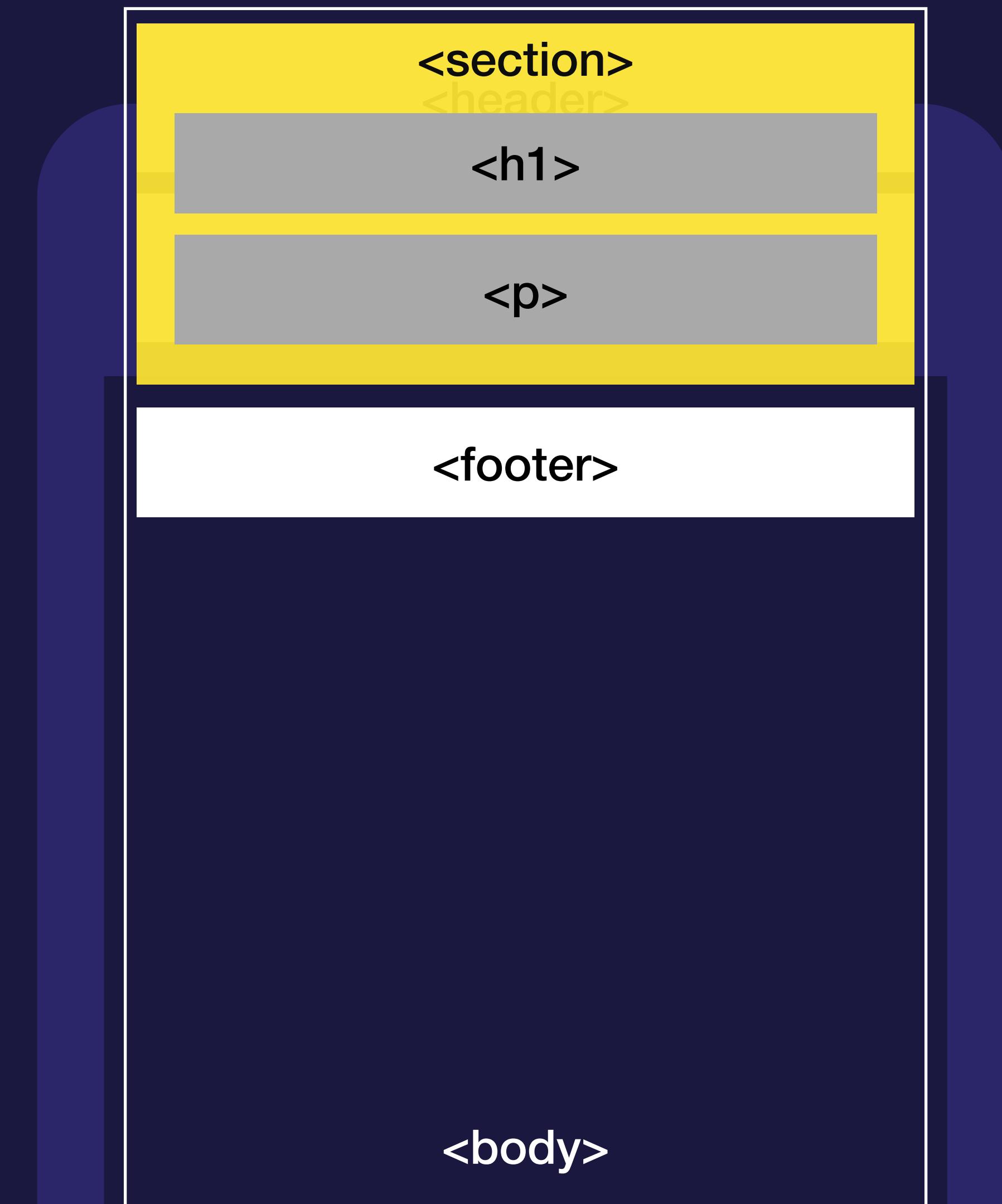
```
section {  
  position: relative;  
  top: 0;  
  left: 0;  
}
```



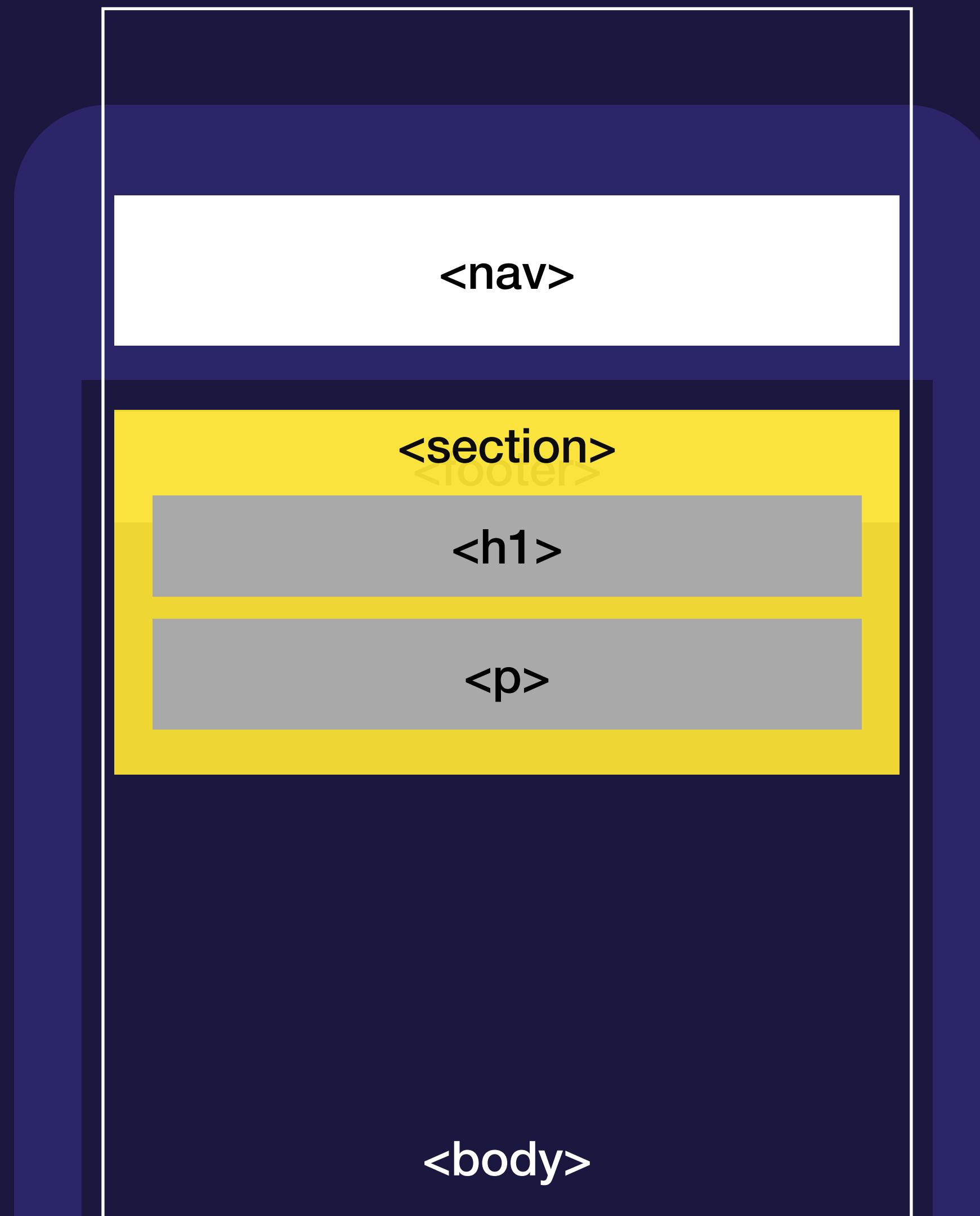
```
Section {  
position: absolute fixed  
top: 0;  
left: 0;  
}
```



*absolute*



*fixed*



# Making a website responsive..



Flow of  
elements



Position  
elements

Floating  
Elements

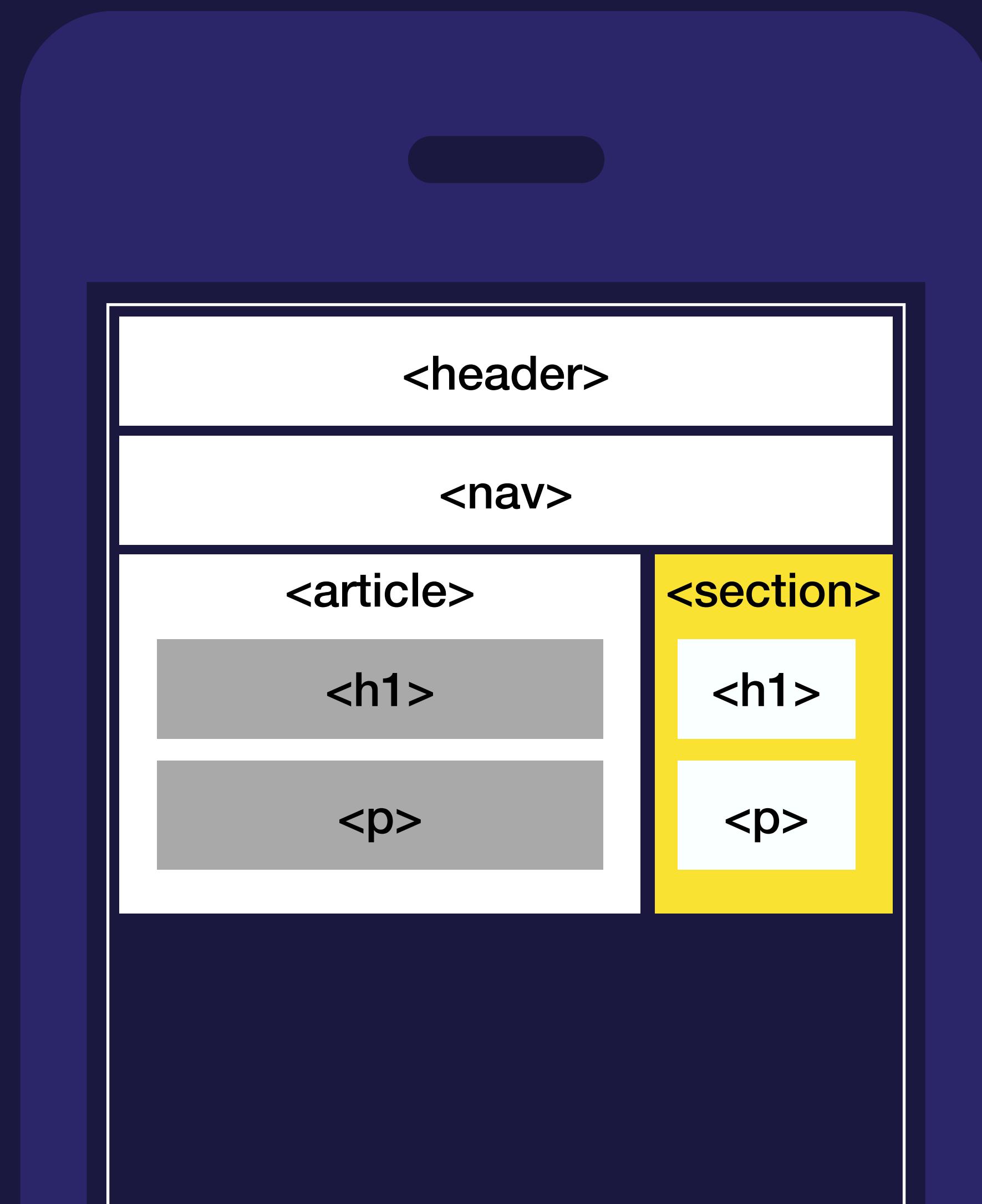
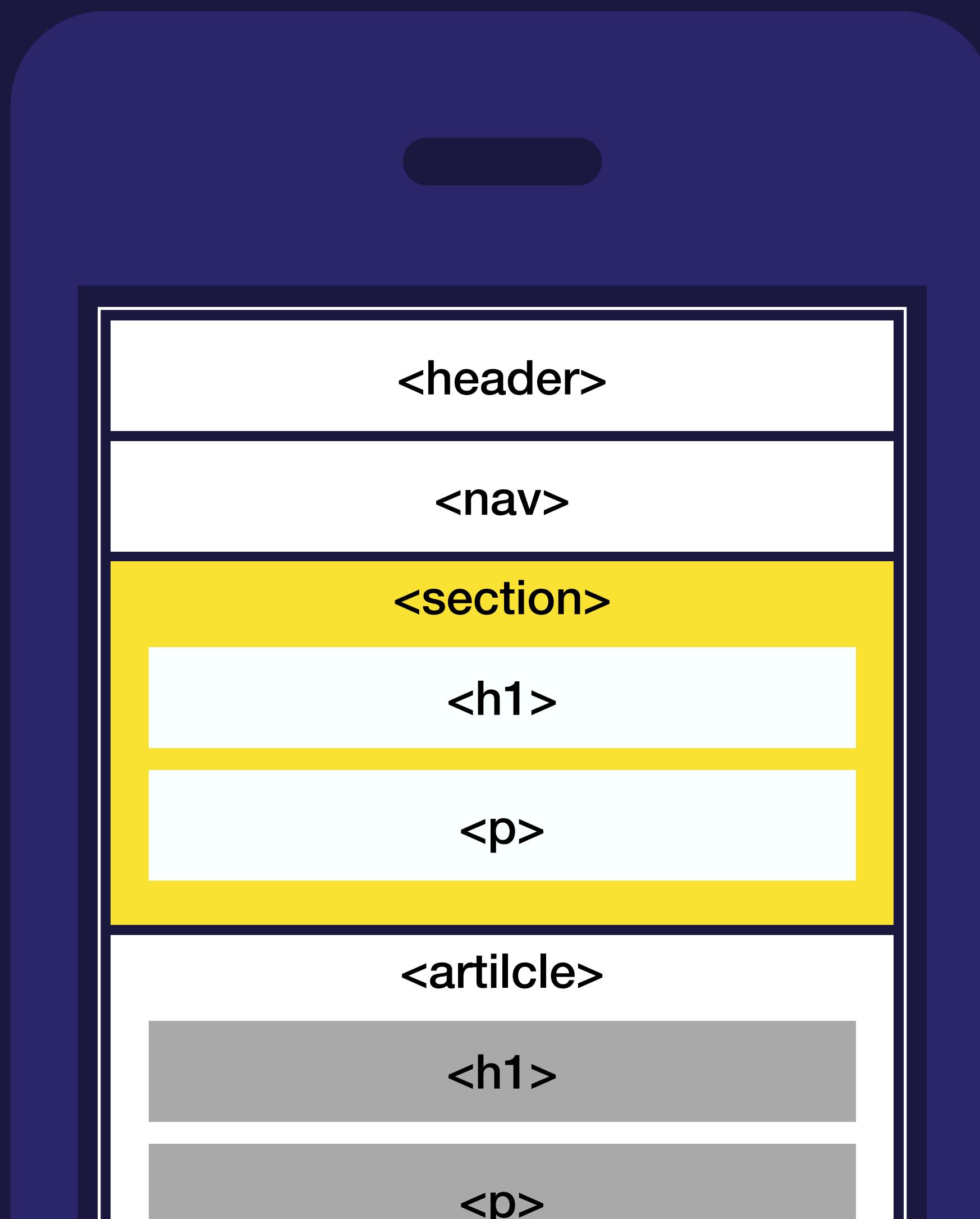
Flexbox  
Layout

Viewport  
Settings

Media  
Queries

CSS  
Frameworks

## section {float:right}



# Making a website responsive..



Flow of  
elements



Position  
elements



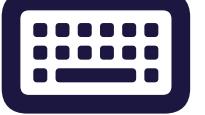
Floating  
Elements

Flex-box  
Layout

Viewport  
Settings

Media  
Queries

CSS  
Frameworks

 Demo

# Let's create a sticky navigation

## THE BLOG

Home  
All Posts  
About Us  
Contact

### Recent Blog Posts



Monday, 18 Sep 2023

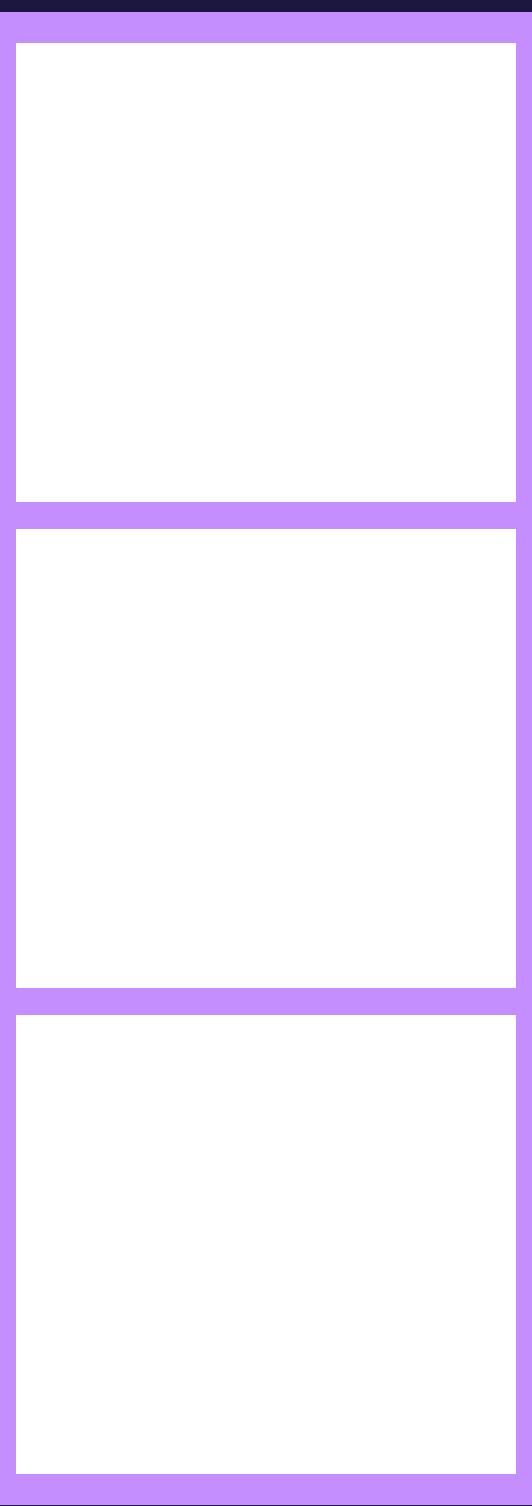
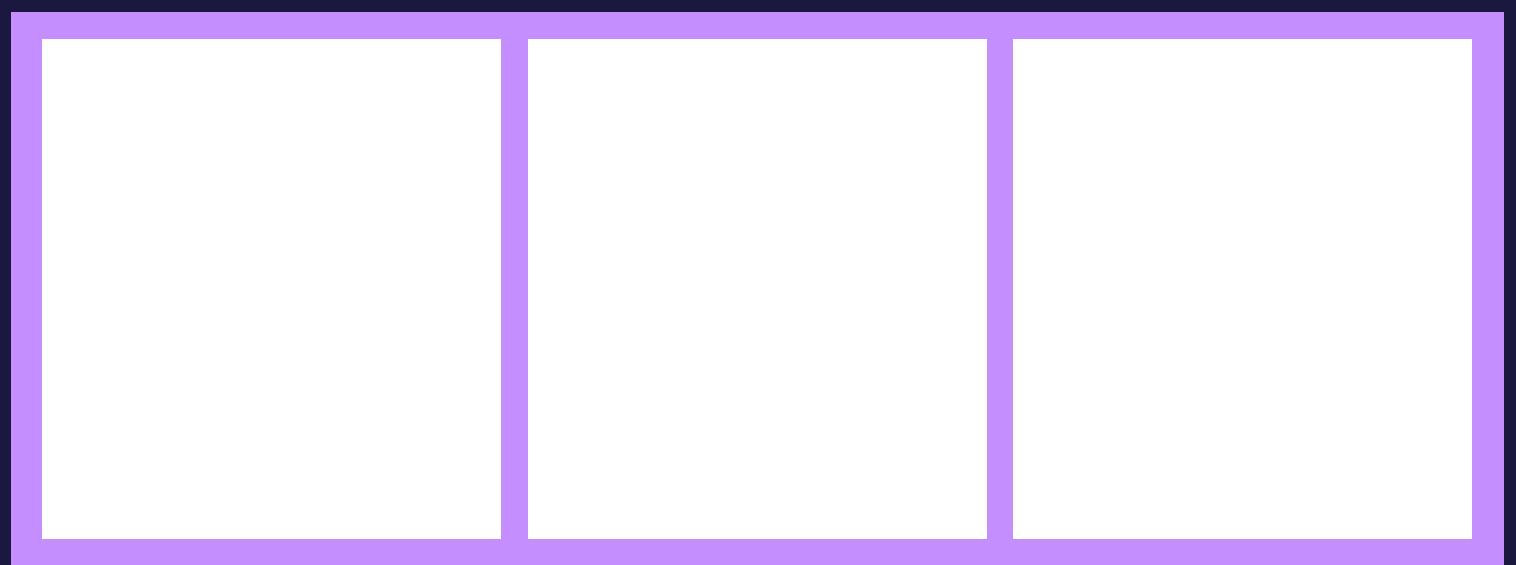
#### Post Title 1

This is a brief summary of the first blog post.

[Read More](#)

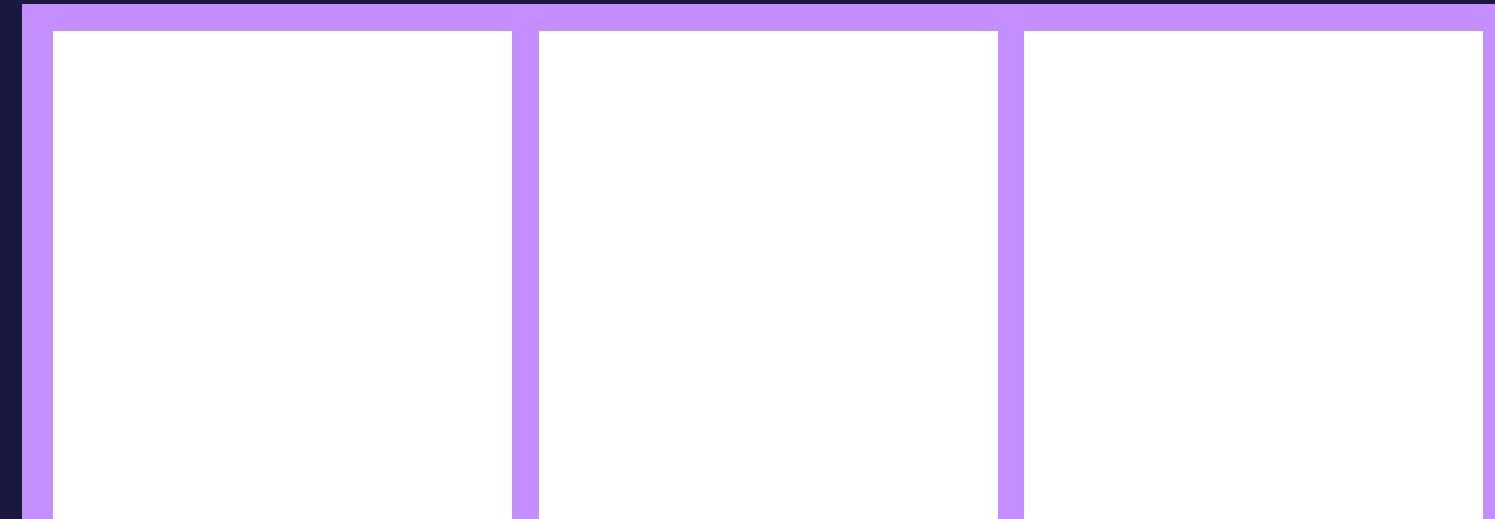
Tag Name Tag Name Tag Name

# Flexbox (Flexible Box) layout



# It basically consists of ..

Flex container



Flex items

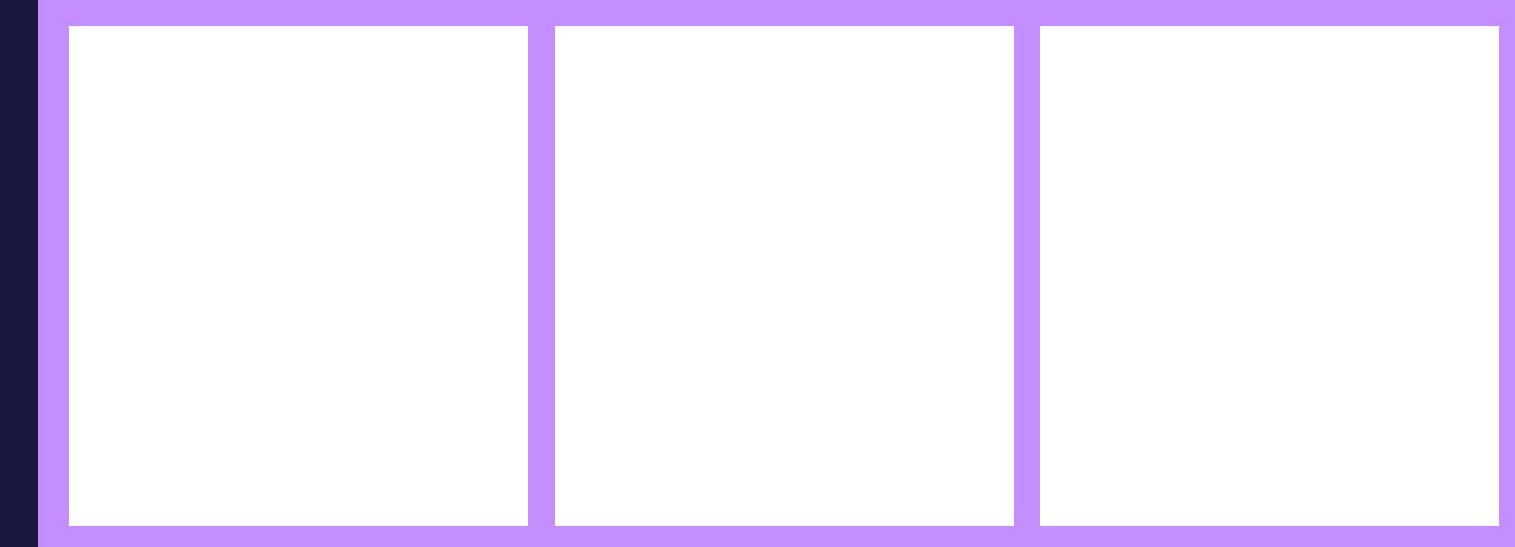
# Flex box syntax ..

```
div { display: flex }
```

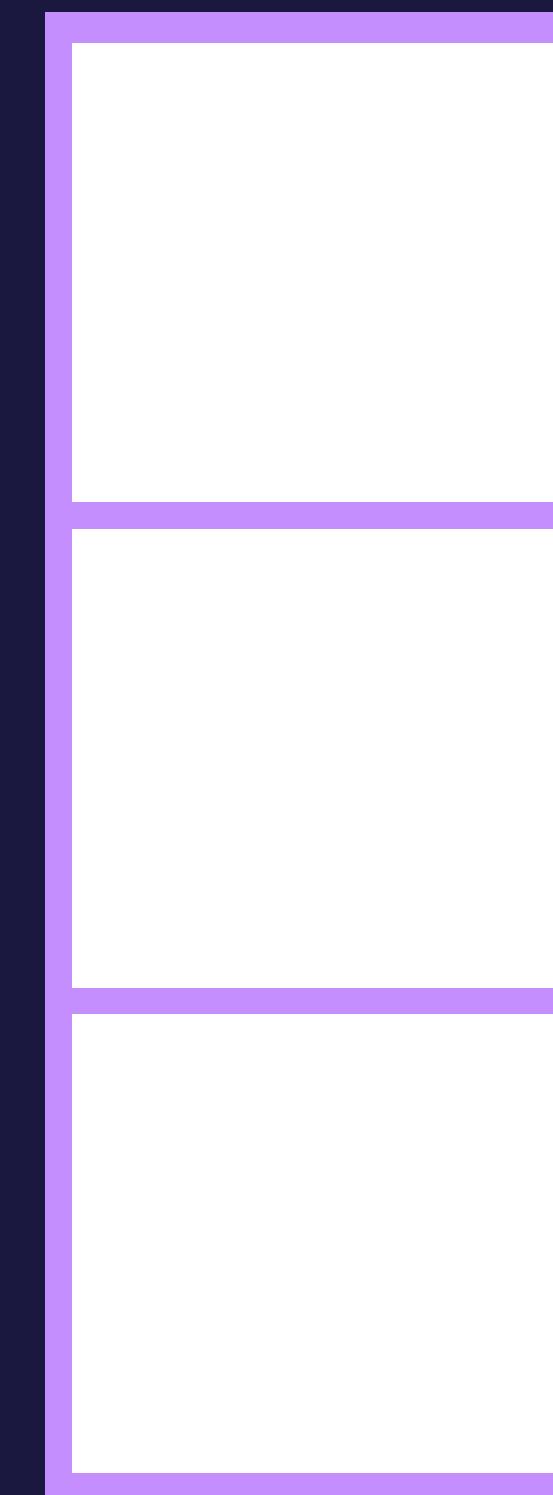
# flexbox direction

flex-direction

row



column



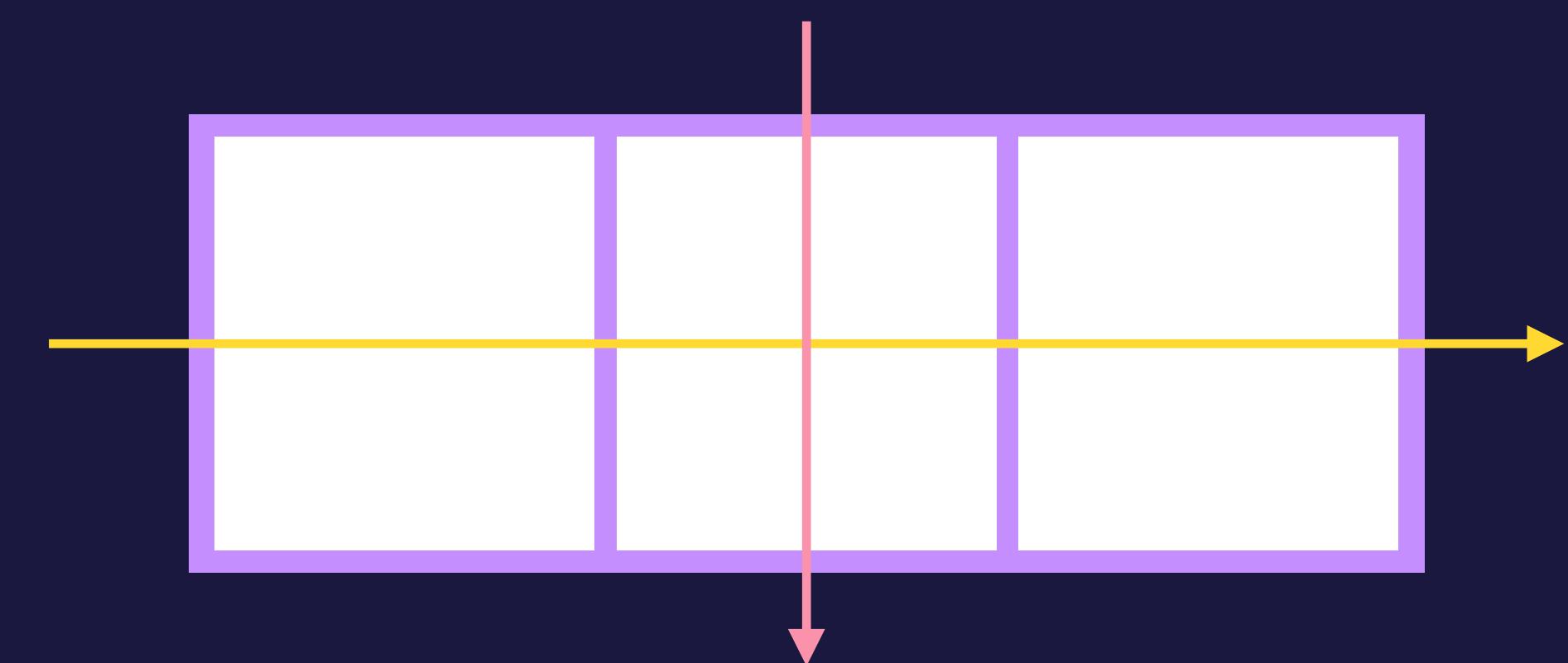
# flexbox direction

flex-direction

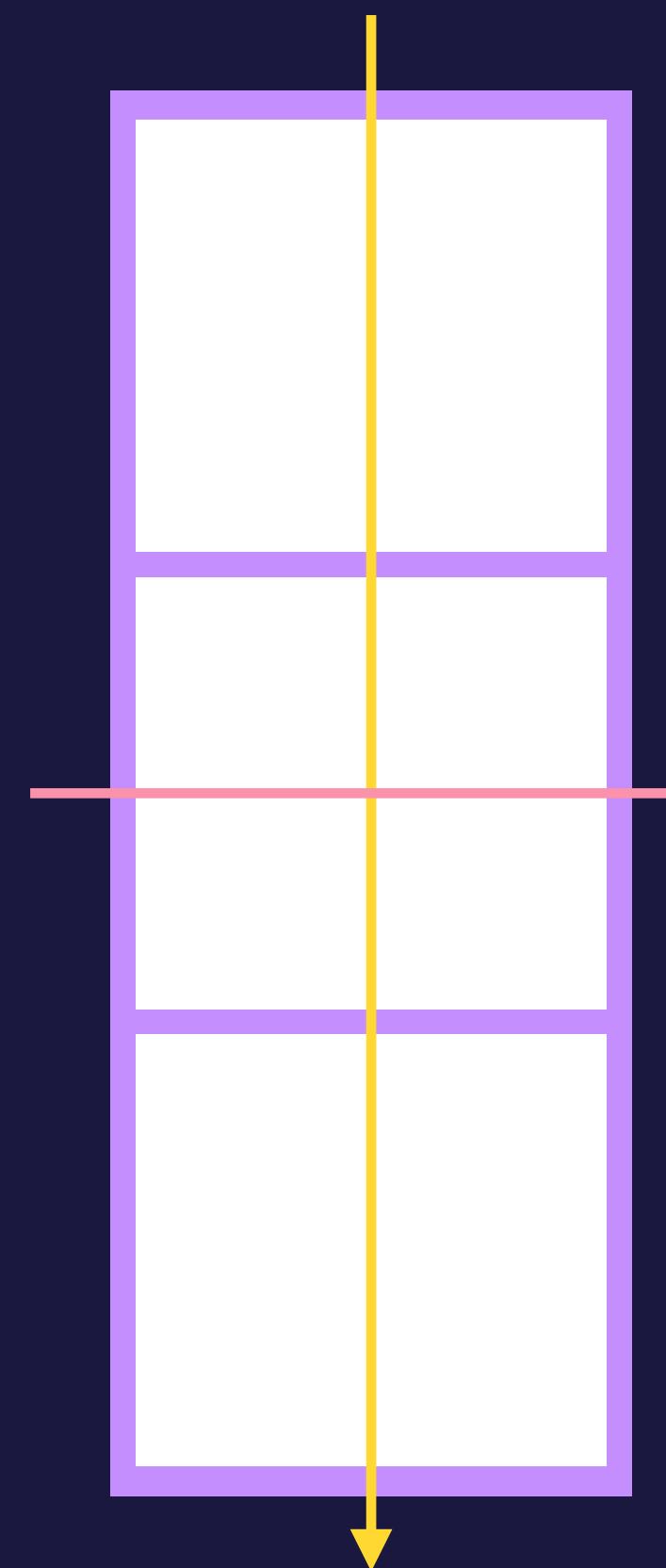
row

column

Main axis



Cross axis

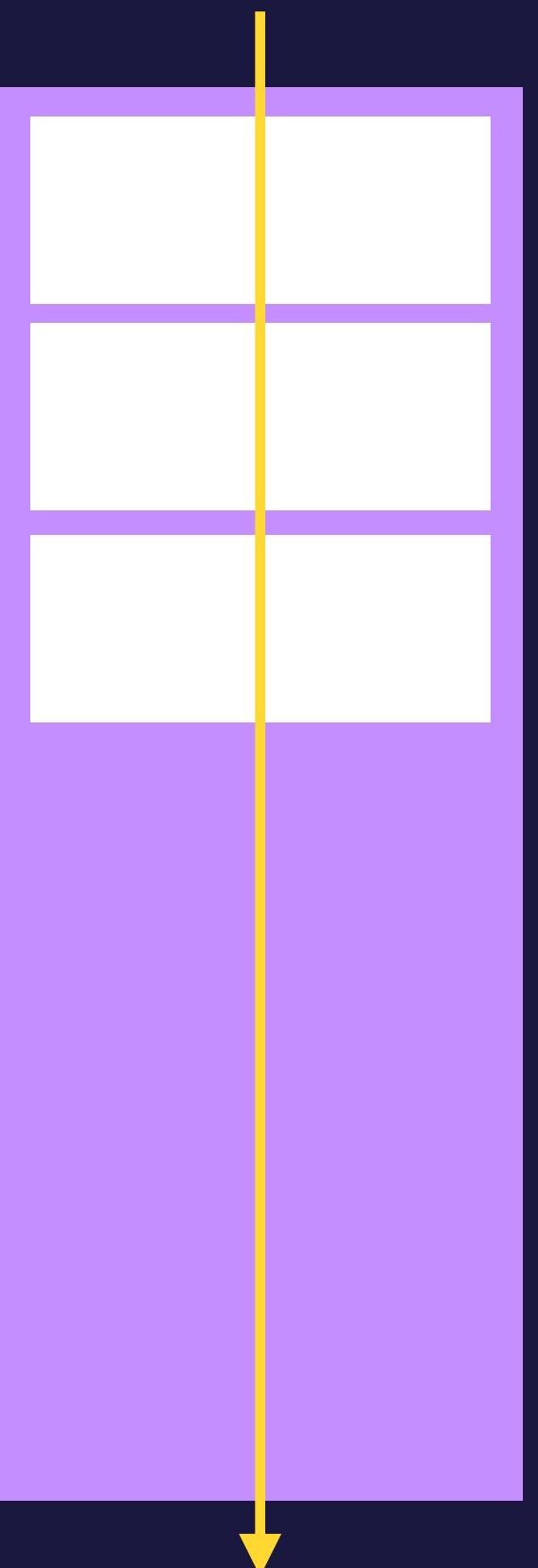


# Aligning items along Main Axis

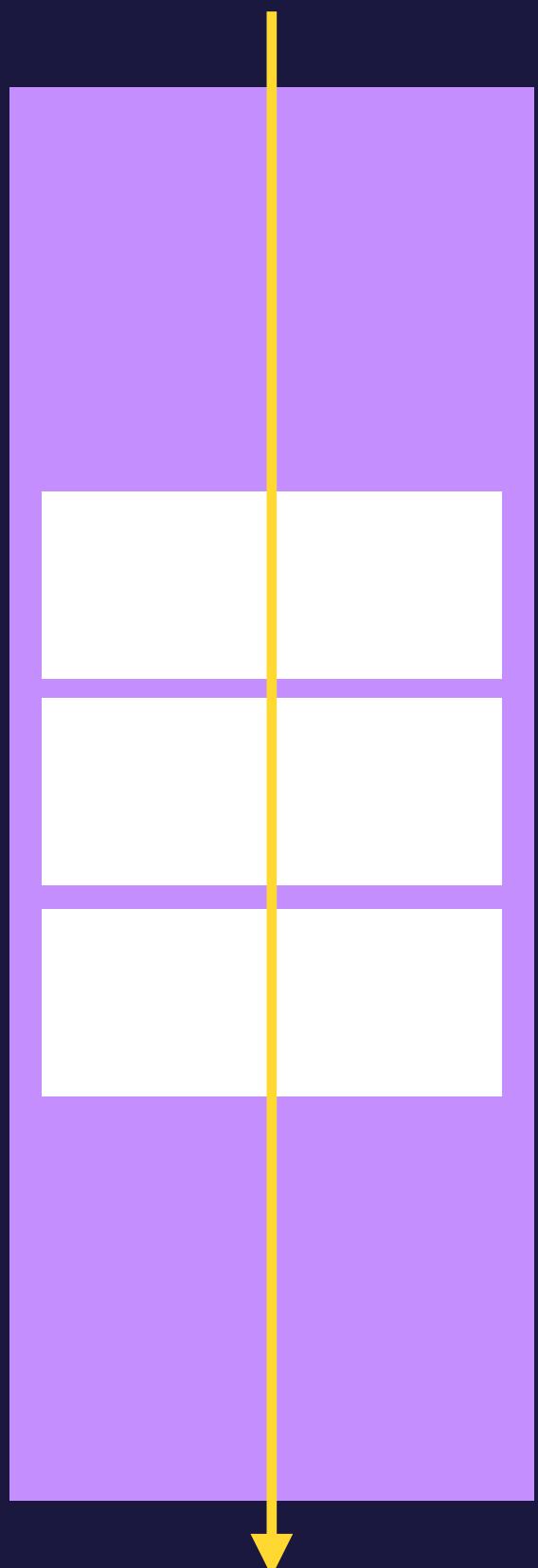
Justify-content

Assuming  
flex-direction : column;

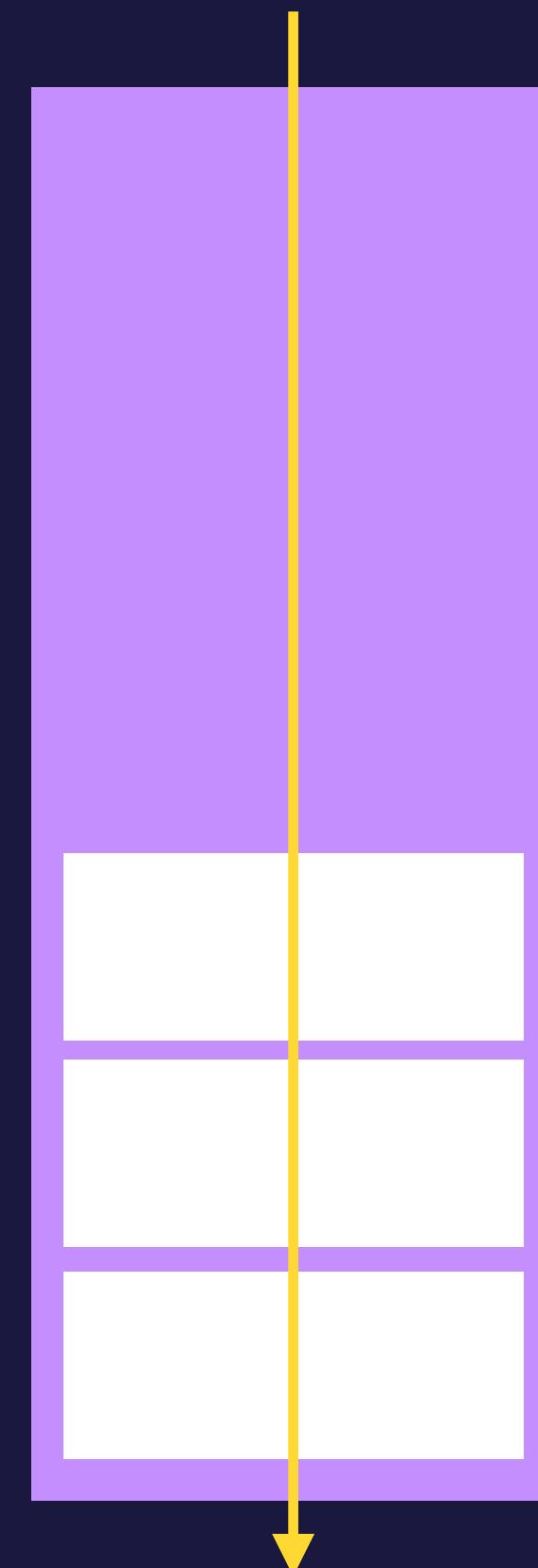
flex-start



center



flex-end



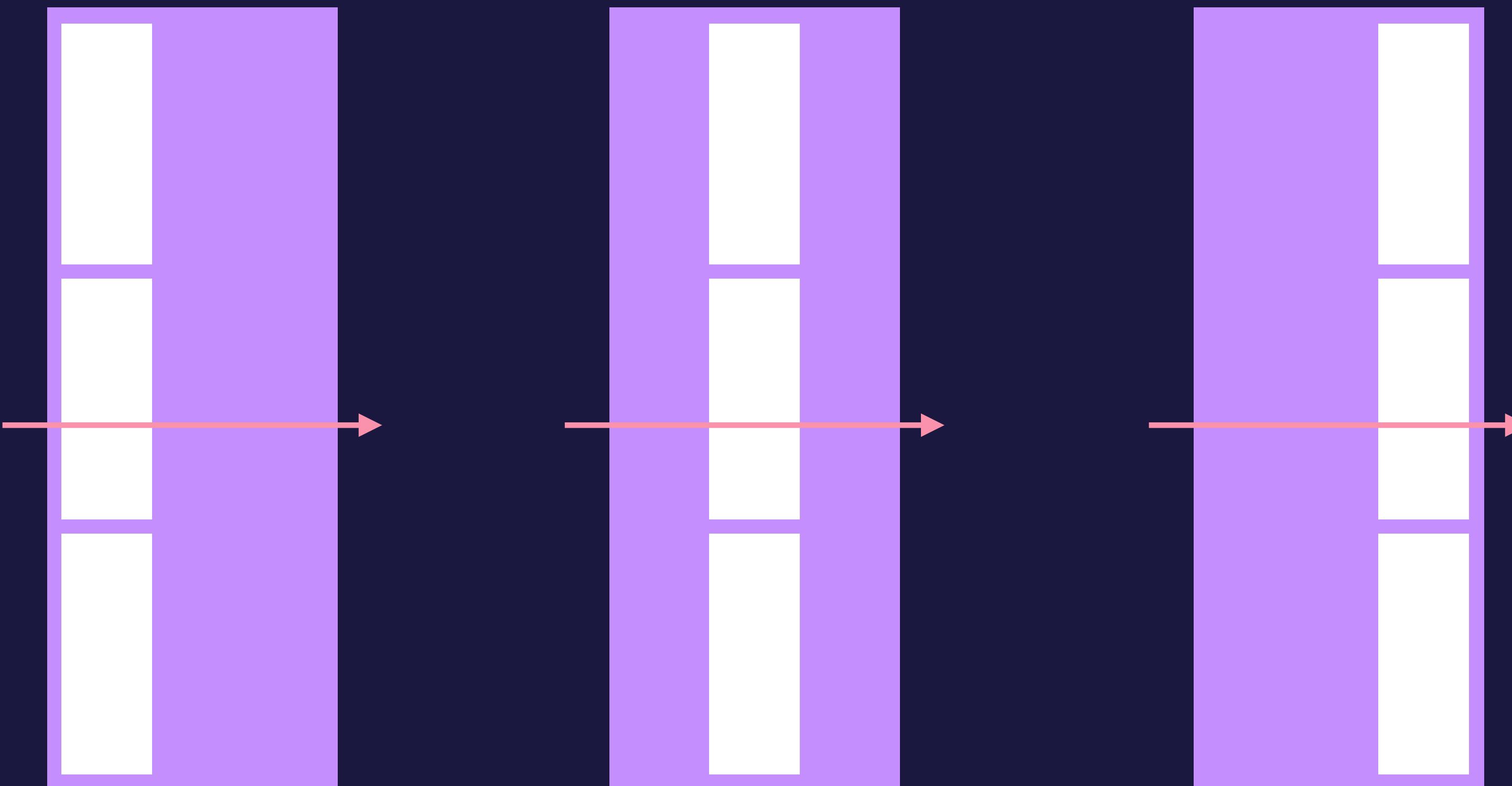
# Align items along Cross Axis

align-items:

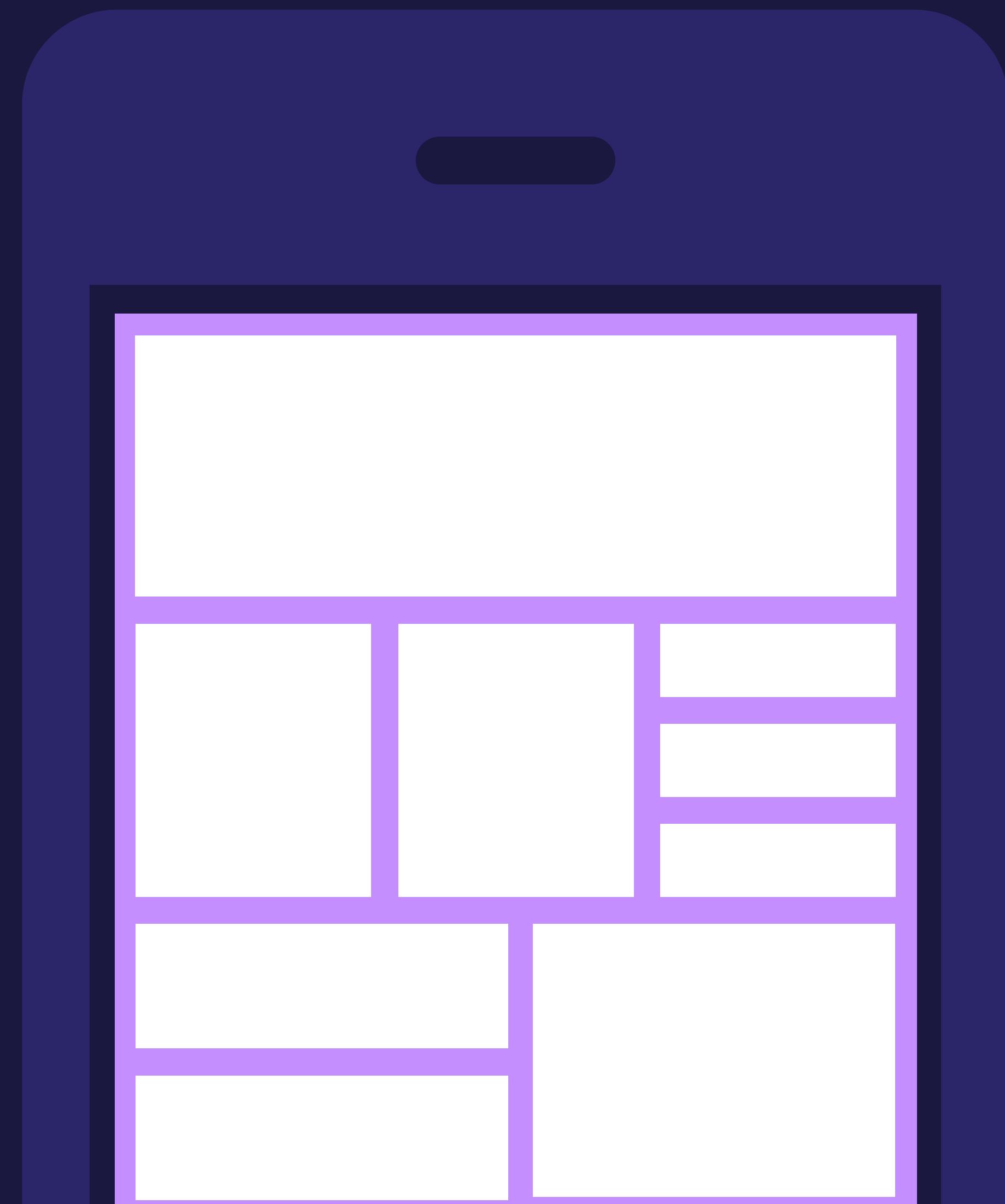
flex-start

center

flex-end



# POWERFULL when combined!!



🔗 [MDN > CSS flexible box layout](#)

# FLEXBOX FROGGY

Welcome to Flexbox Froggy, a game where you help Froggy and friends by writing CSS code! Guide this frog to the lily pad 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   justify-content: flex-end;  
4 }  
5  
6  
7  
8  
9  
10
```

Next

Flexbox Froggy is created by [Codepiper](#) • [GitHub](#) • [Twitter](#) • [Settings](#)

Want to learn CSS grid? Play [Grid Garden](#).



# Making a website responsive..



Flow of elements



Position elements



Floating Elements



Flex-box Layout

Viewport  
Settings

Media  
Queries

CSS  
Frameworks

**How many pixels are in 1 inch?**

How many pixels are in 1 inch?

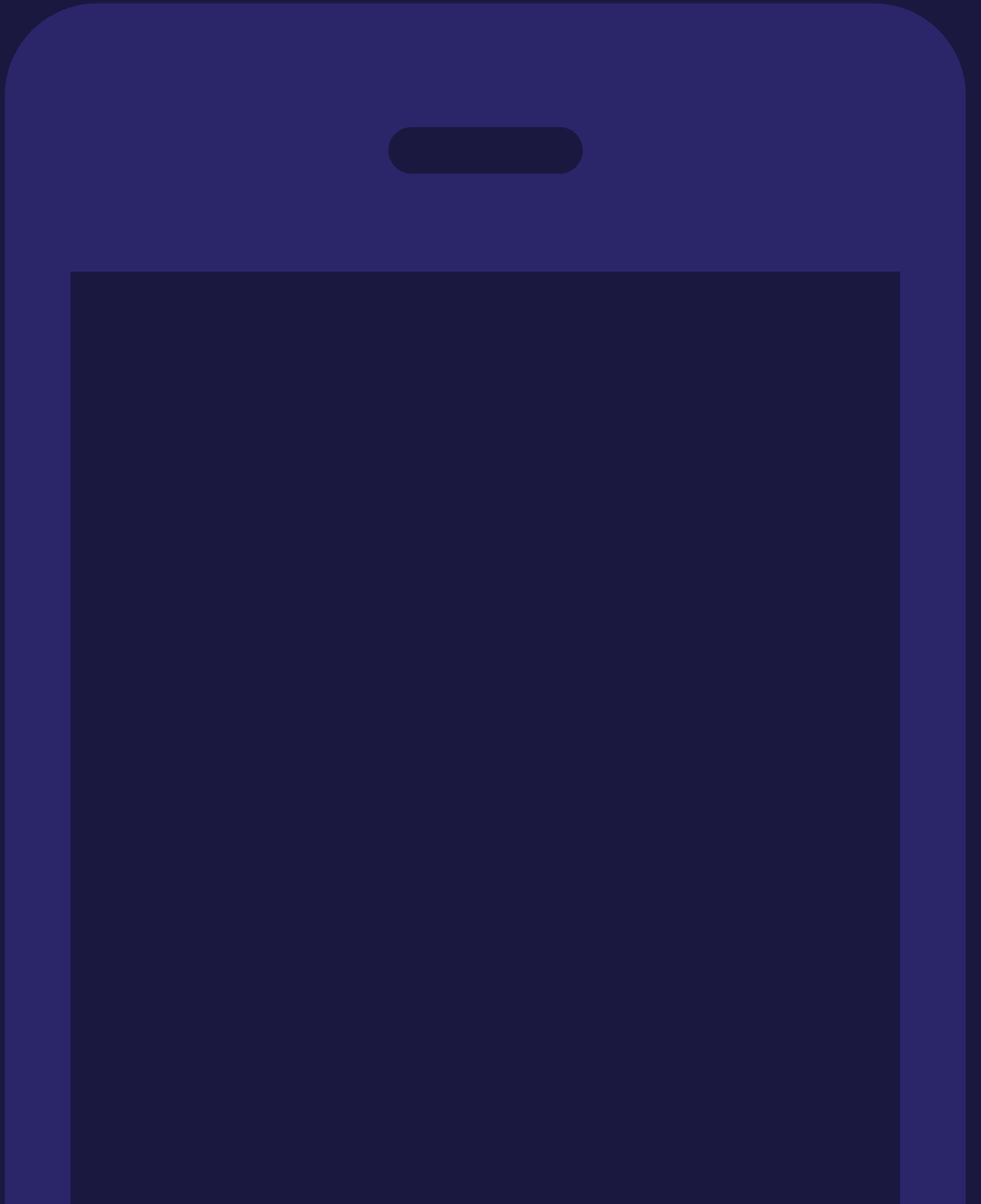
**What is the resolution  
of the screen?**

How many pixels are in 1 inch?

**What is the resolution  
of the screen?**

Or what we call **PPI**

```
<meta name="viewport" content="width=device-width">
```

A dark blue silhouette of an iPhone 15 Pro Max is positioned on the left side of the slide. It features rounded corners, a black front panel, and a small black notch at the top center. The phone is oriented vertically.

# **iPhone 15 Pro Max**

**Screen size**

1290px × 2796px

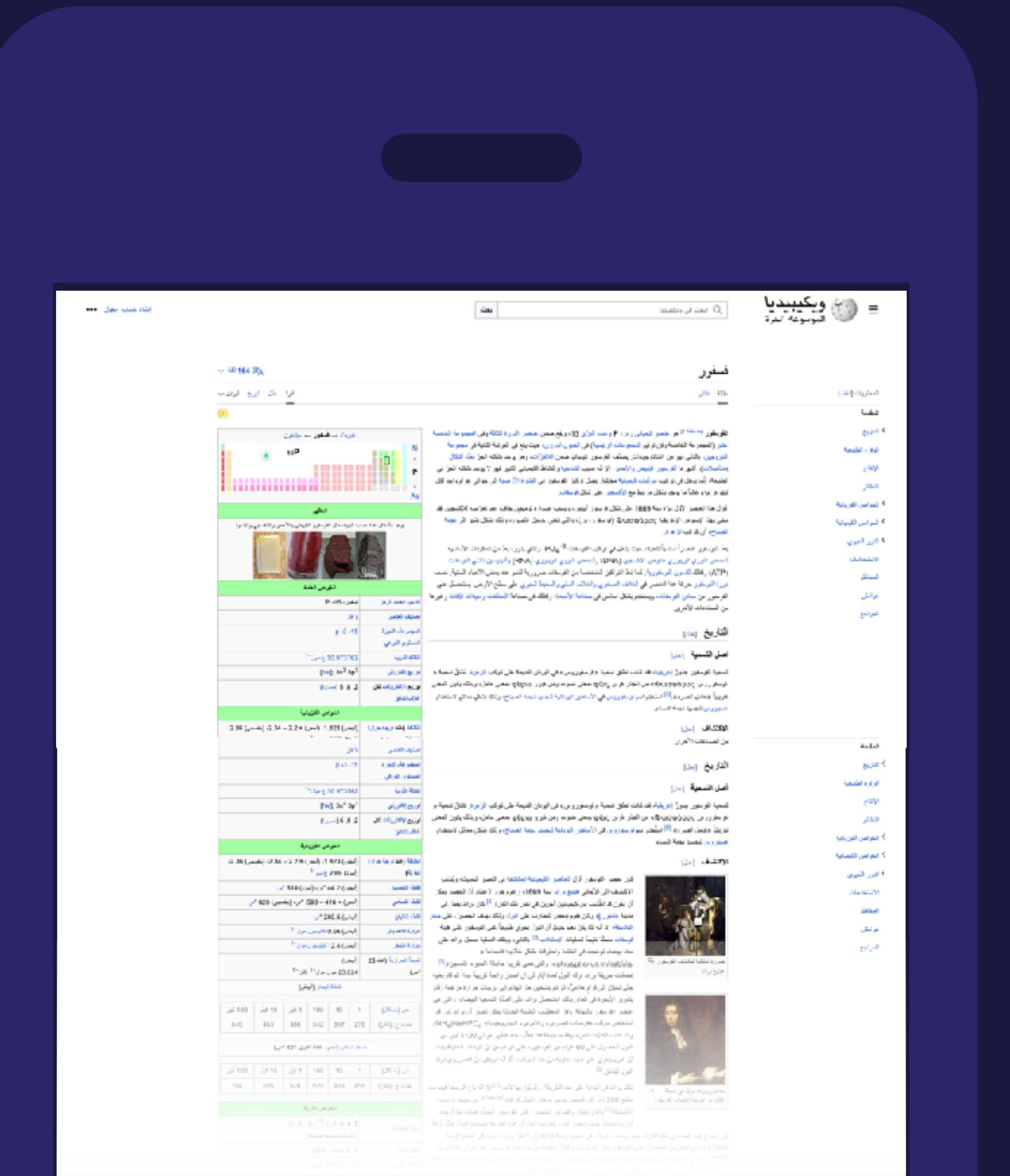
**Viewport size**

430px × 932px

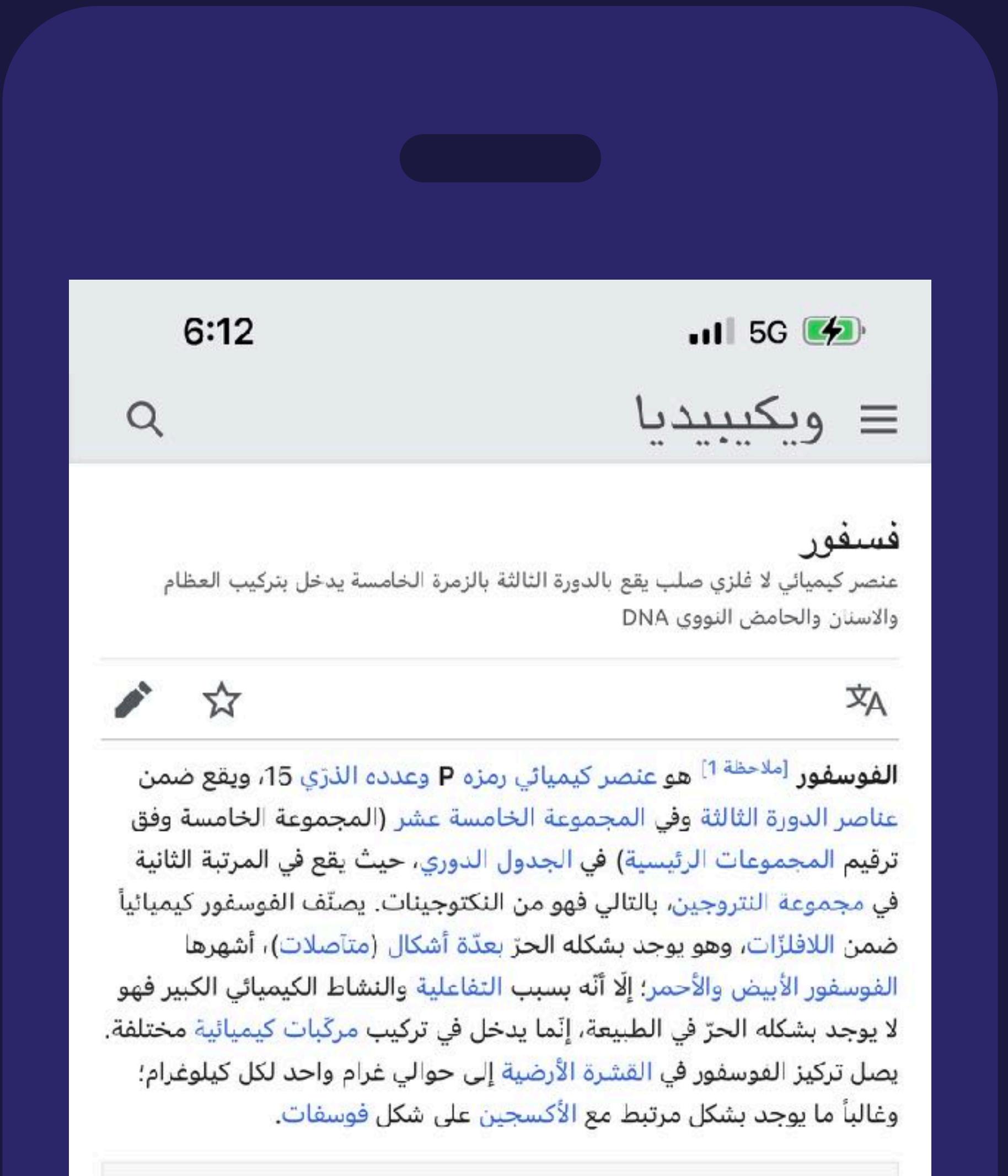
**Device pixel ratio**

3

# A website scaled to fit screen size.



```
<meta name="viewport" content="width=device-width">
```





**Use your mobile phone to open  
the following web page**

 [w3schools.com/css/css\\_rwd\\_viewport.asp](https://www.w3schools.com/css/css_rwd_viewport.asp)

# Making a website responsive..



Flow of  
elements



Position  
elements



Floating  
Elements



Flex-box  
Layout



Viewport  
Settings

Media  
Queries

CSS  
Frameworks



```
nav li { display : }
```

block



inline



```
@media media-type and (media-feature-rule) {  
    ...  
}  
    all      width:600px  
    print   height:200px  
    screen  min-width:600px
```



# Let's make our blog responsive

[All Blog Posts](#)



Monday, 18 Sep 2023

**Post Title 1**

This is a brief summary of the first blog post.

[Read More](#)

Tag Name Tag Name Tag Name



Monday, 18 Sep 2023

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# Making a website responsive..



Flow of  
elements



Position  
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Floating  
Elements



Flex-box  
Layout



Viewport  
Settings



Media  
Queries

CSS  
Frameworks



Amazing pools



Countryside



Beach



Beachfront



Castles



Rooms



Amazing views



Cabins



Mansions



Iconic cities



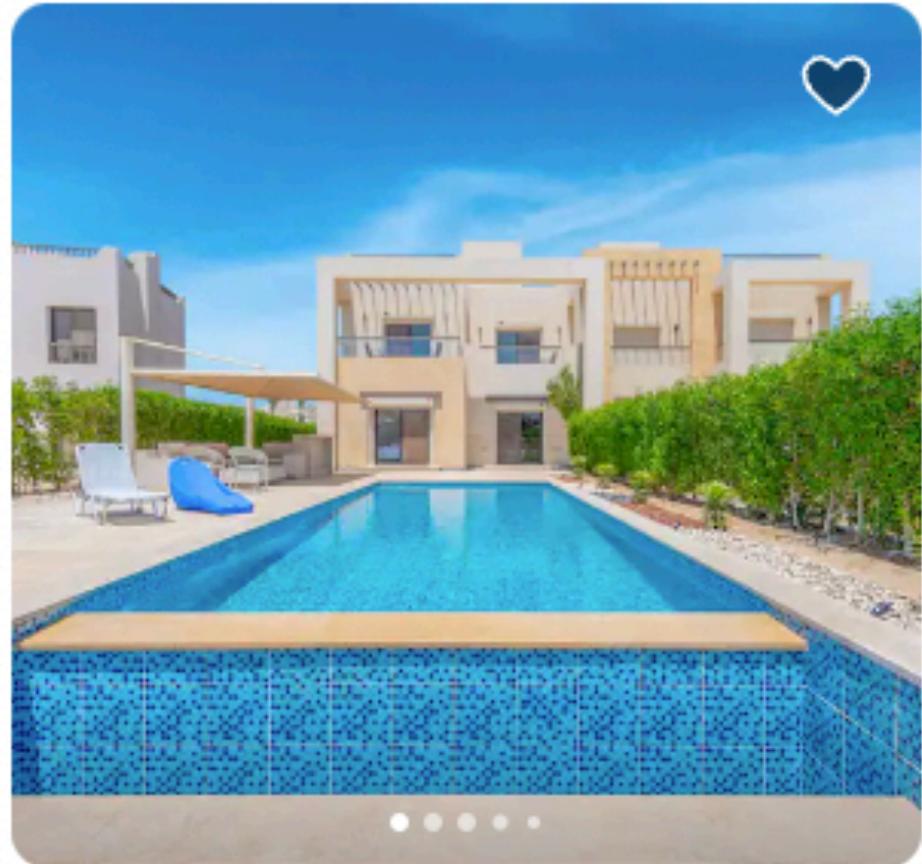
Tiny homes



Trending



Design

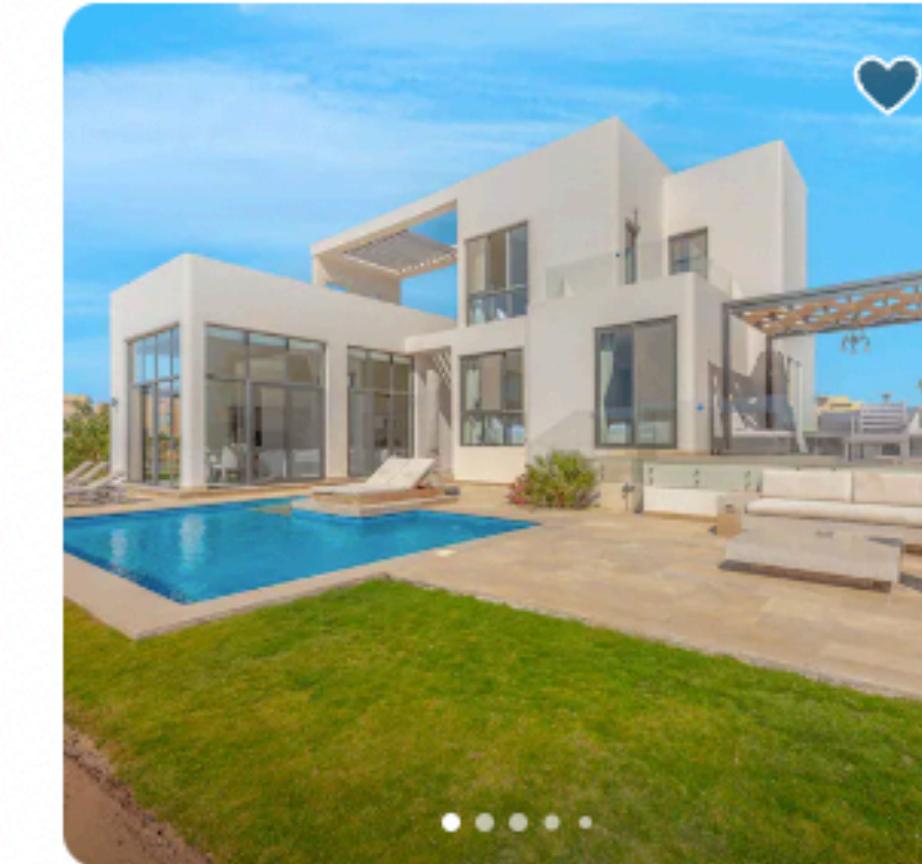
 FiltersDisplay total before taxes 

El Gouna, Egypt

863 kilometers away

Oct 1 – 6

SR1,230 night

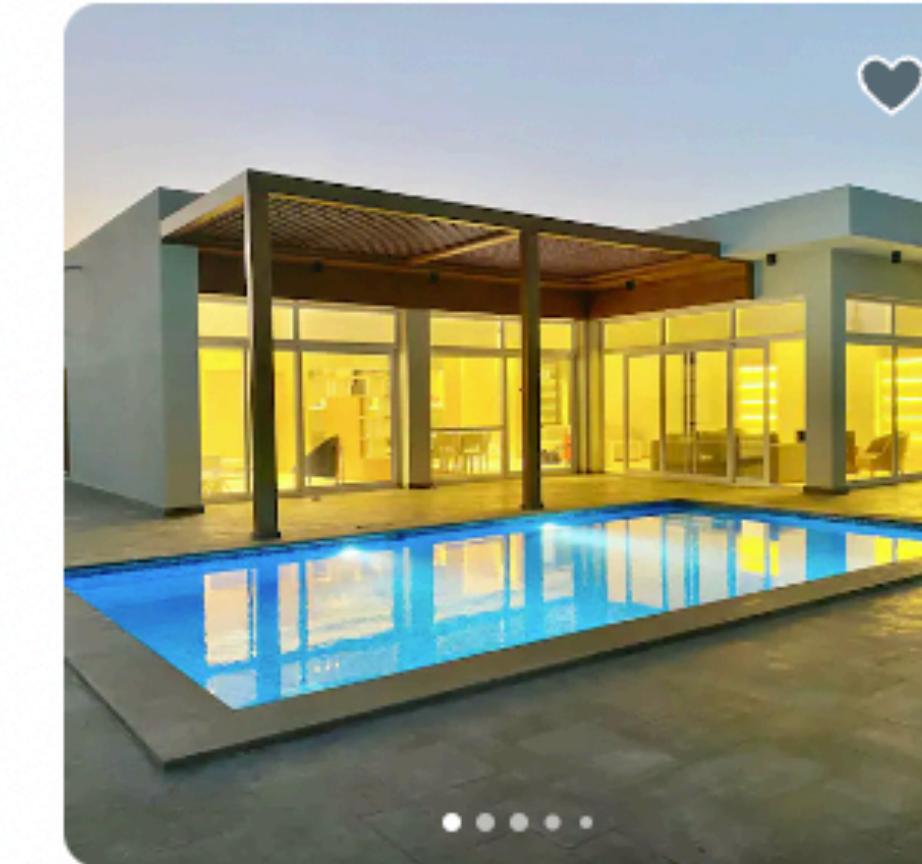


El Gouna, Egypt

862 kilometers away

Oct 7 – 12

SR2,377 night



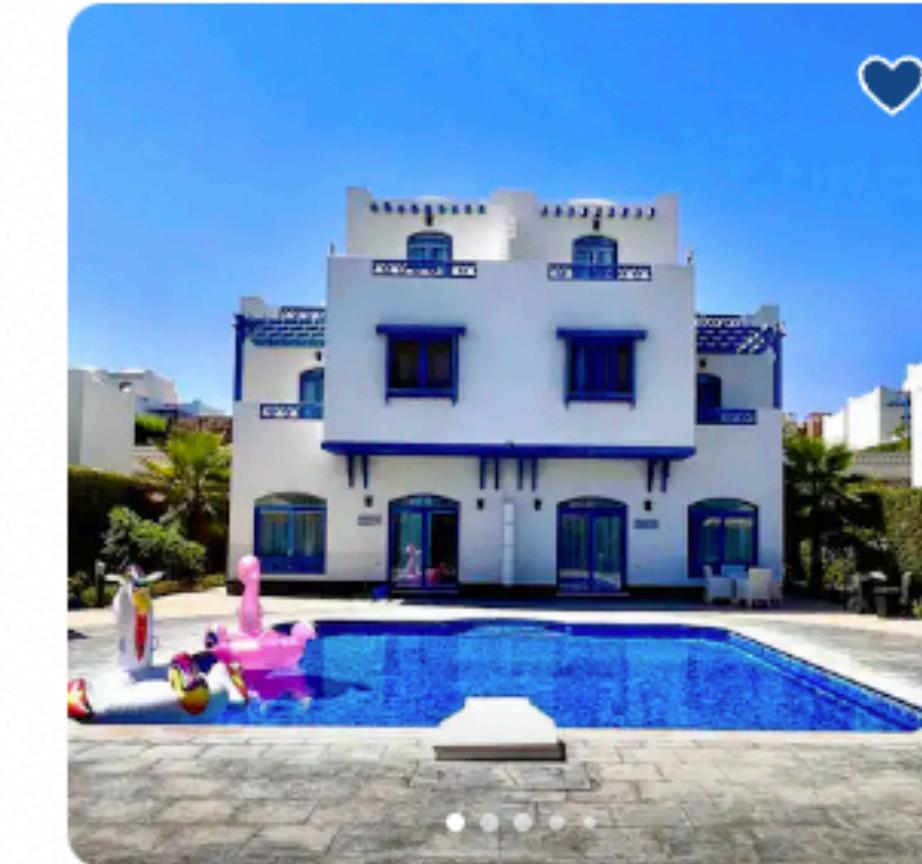
★ 5.0

Hurghada, Egypt

796 kilometers away

Oct 1 – 7

SR2,054 night



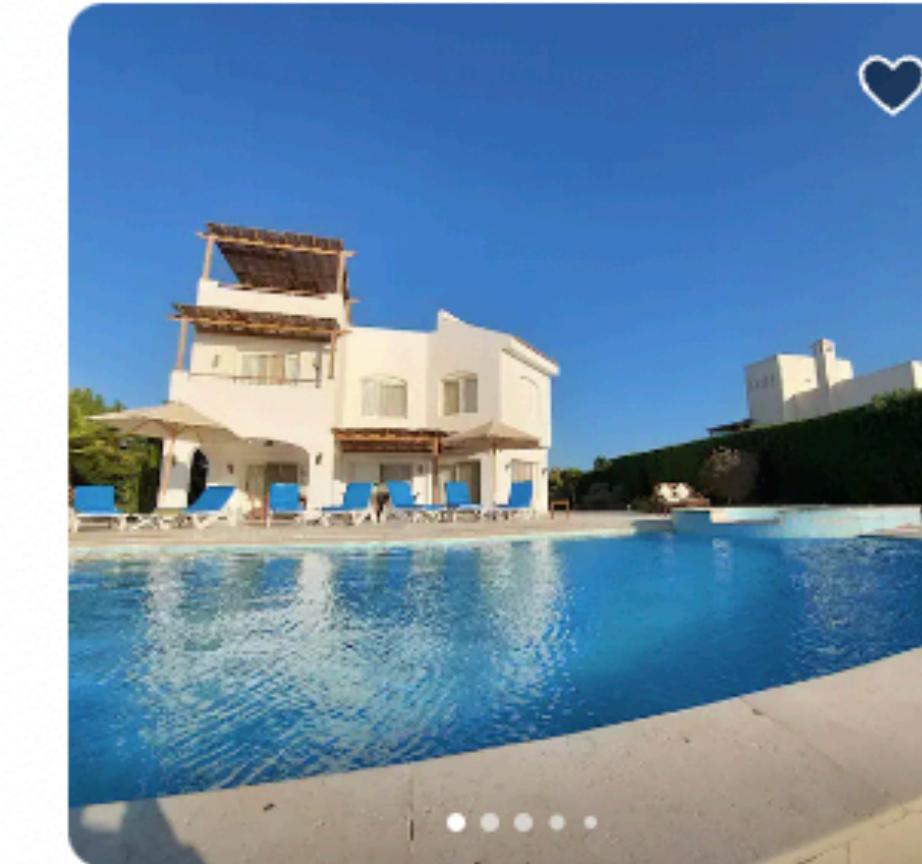
★ 4.83

Hurghada , Egypt

816 kilometers away

Oct 20 – 25

SR1,164 night



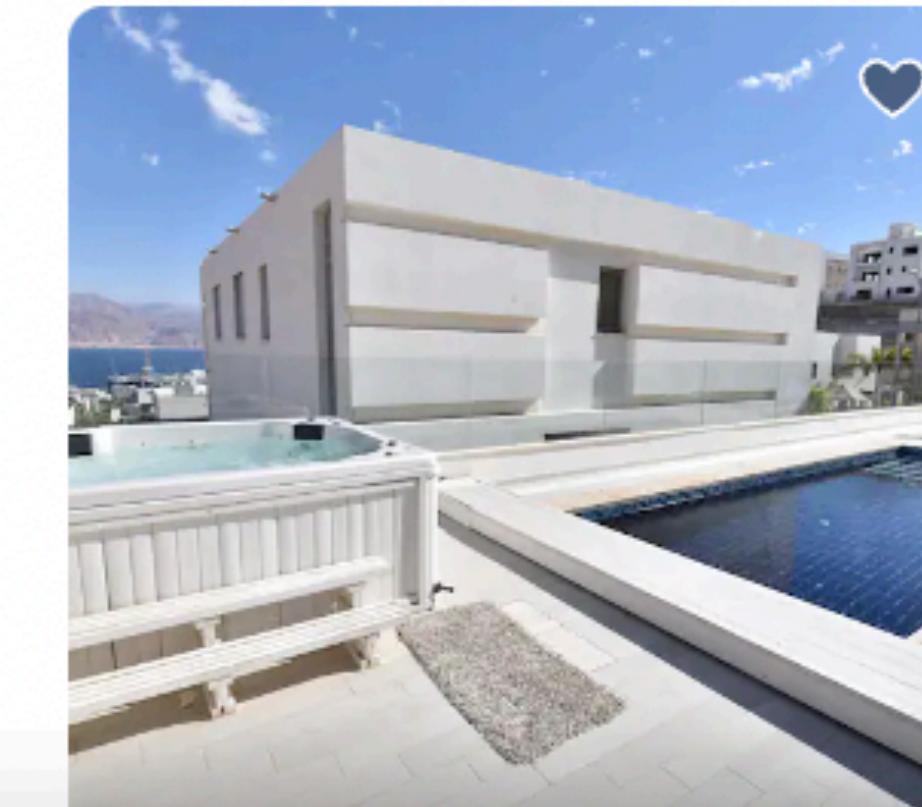
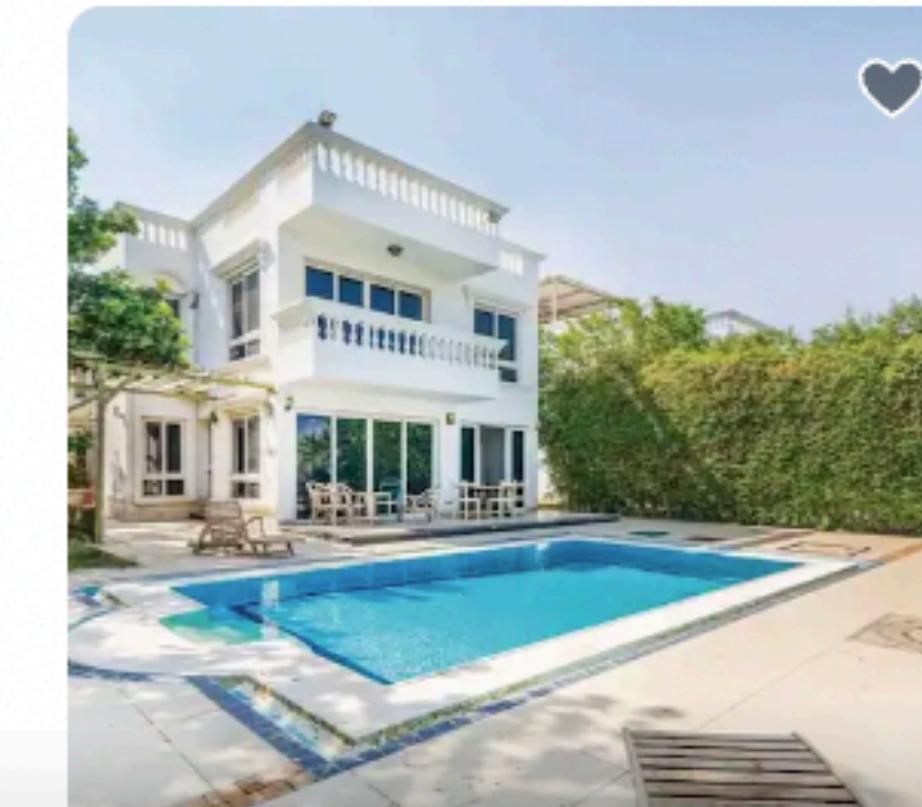
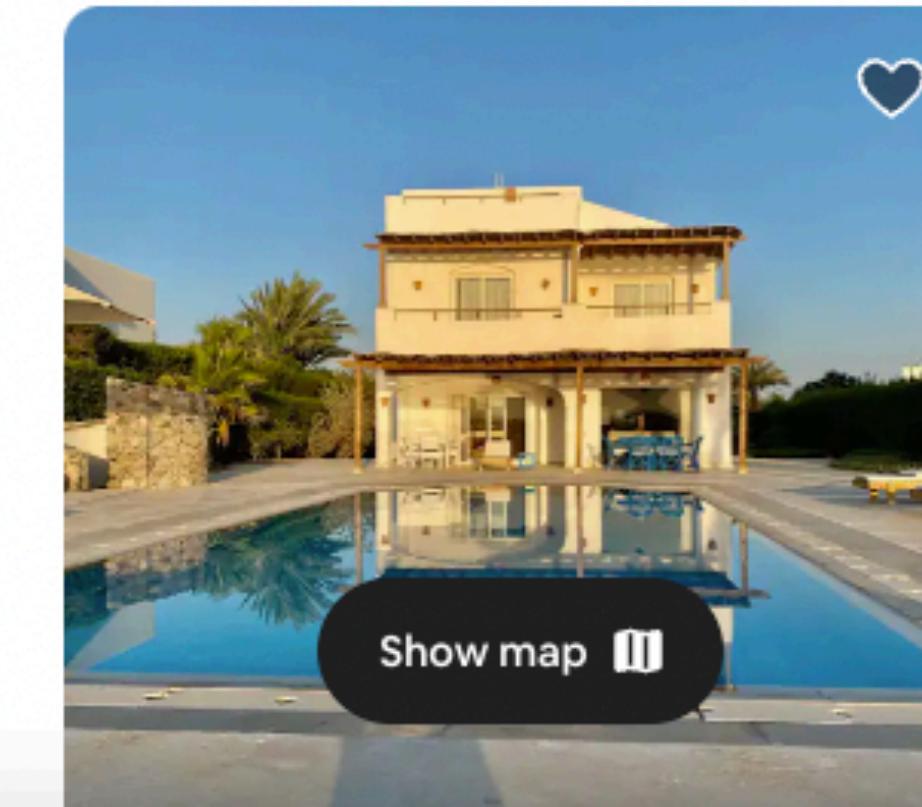
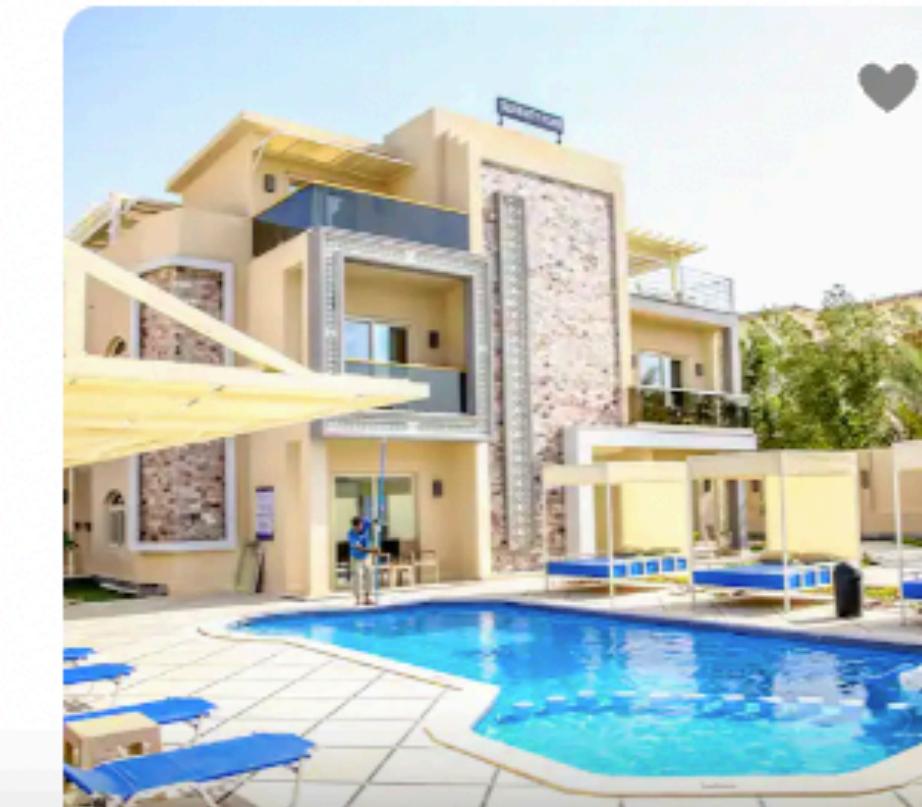
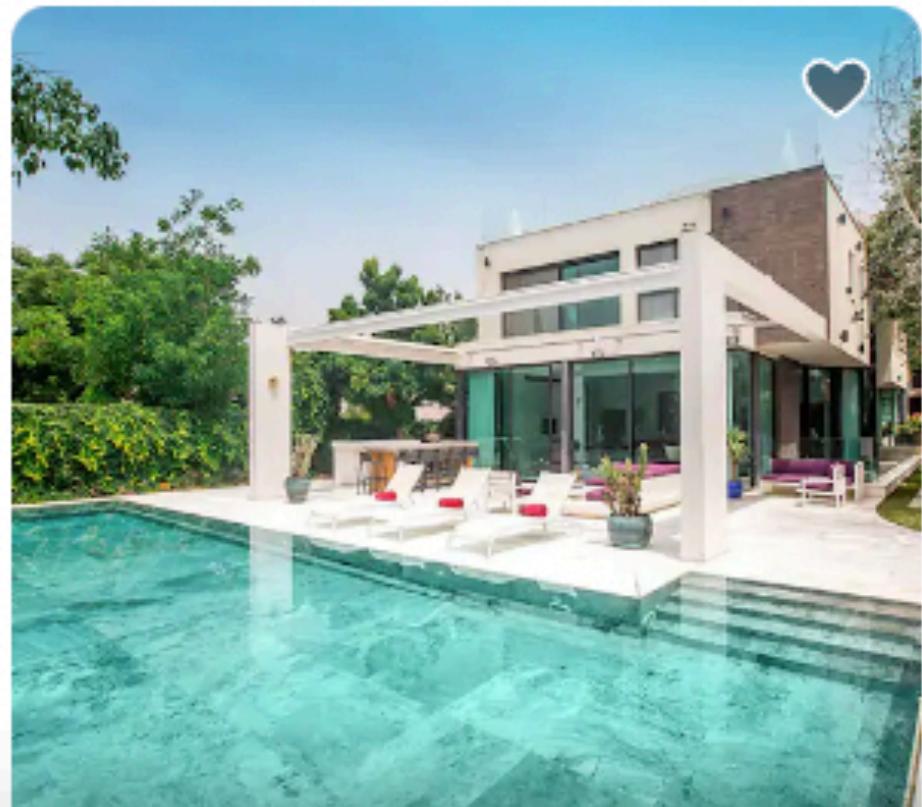
★ 5.0

Hurghada, Egypt

860 kilometers away

Oct 8 – 13

SR2,483 night



W.

Search in Inspiration

IN Inspiration

Log in Sign Up

Be Pro

Submit Website

FEATURED IN AWWWARDS

Courses

Sites of the Day

Websites

Elements

Coming soon

Be inspired by the world's top thinkers

C2MTL 12<sup>th</sup> edition

HANDS-ON WORKSHOPS TIME

FINDING THE TOP INSIDE ALL

1 - Studio Kiln – Site of the Day

BEST TAGS

Animation Portfolio 404 pages Clean

C2 Montréal by KOKI-KIKO and friends wins SOTM May

Engine Studio Commerce

Newsfeed View All

Policies

Close

Industries

Arts

Culture

Music

Tech

Fashion

Kiln

w. home

Home

SOTD

Nominees

Directory

Collections

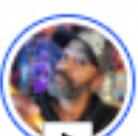
WHO DARES SHOW

Next Project

Pure Represent

View Project

Touring Sun



Add Yours



Kenneth ...



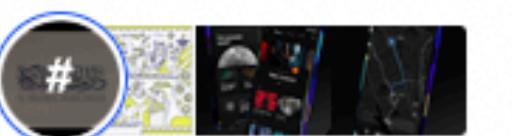
Videos



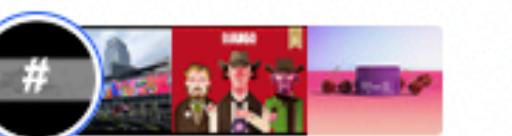
#graphicdesign



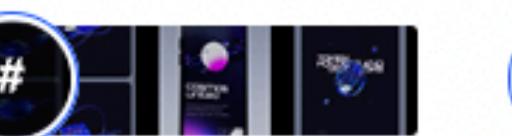
#photography



#interaction



#illustration



#motion



Trending Locations

For You

Follo Click to go back, hold to see history ons

Personalize Your Feed

Digital agency landing page.



Marian Hany

118

662

Multiple Owners

138 847

Multiple Owners

4 38

551 5.2k

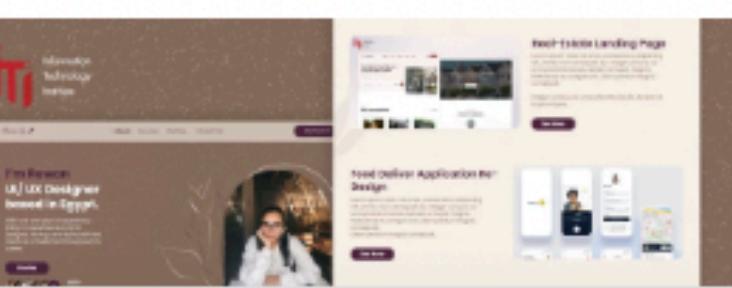
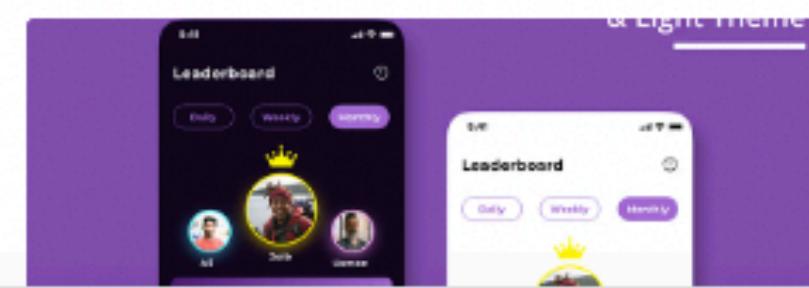
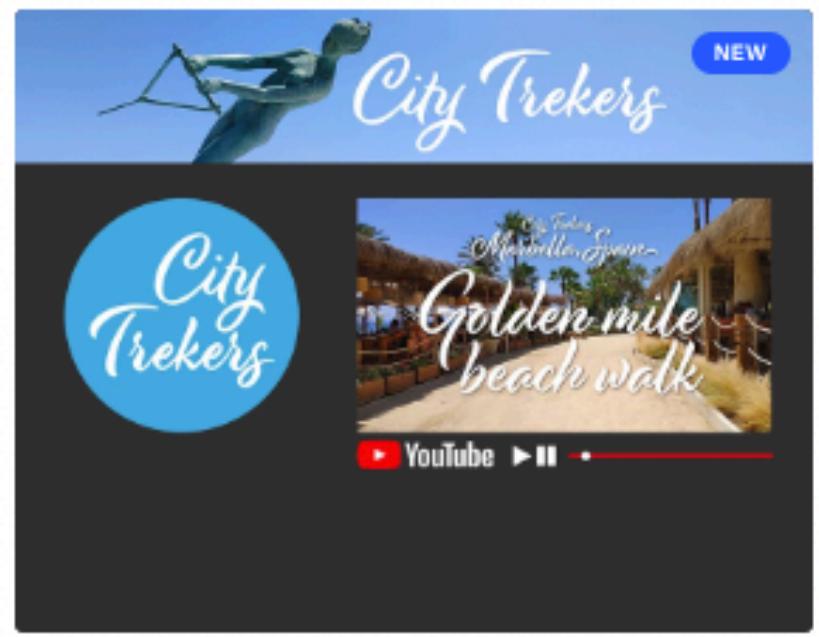
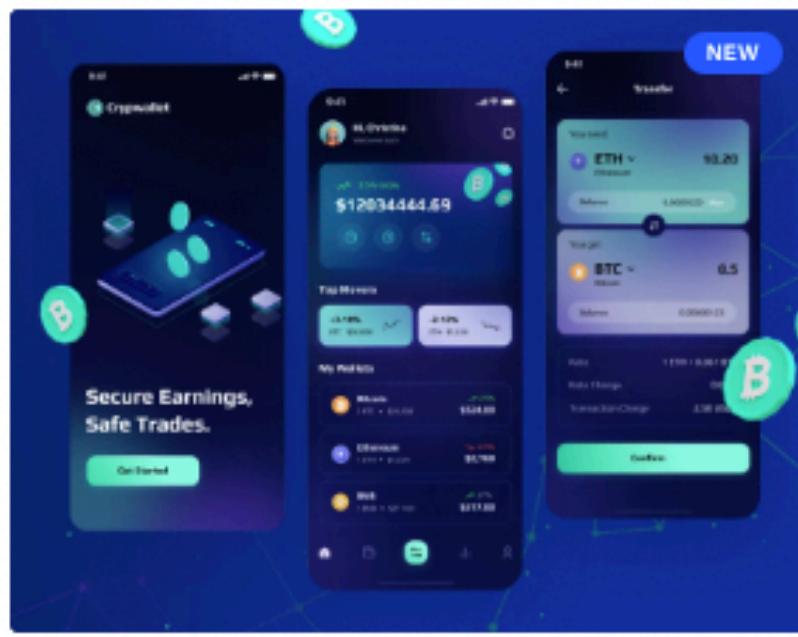
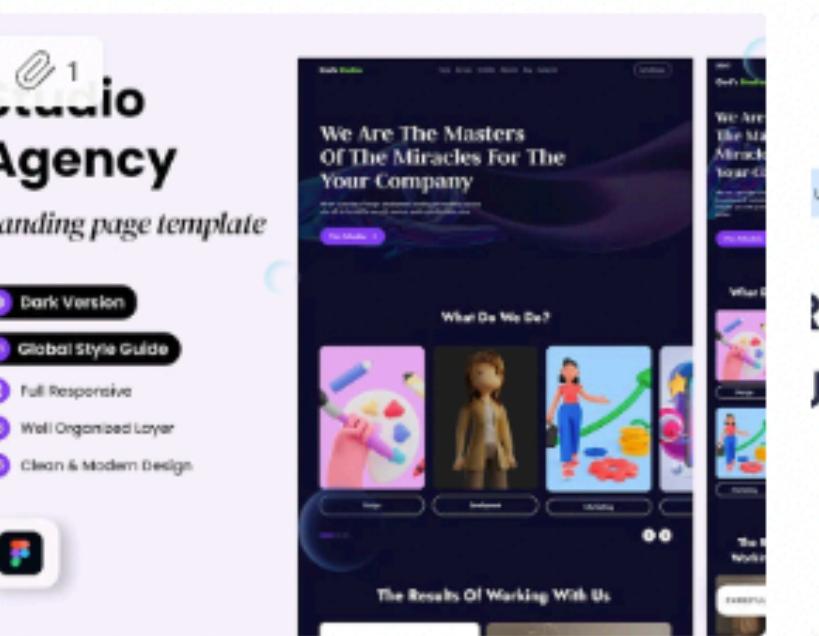
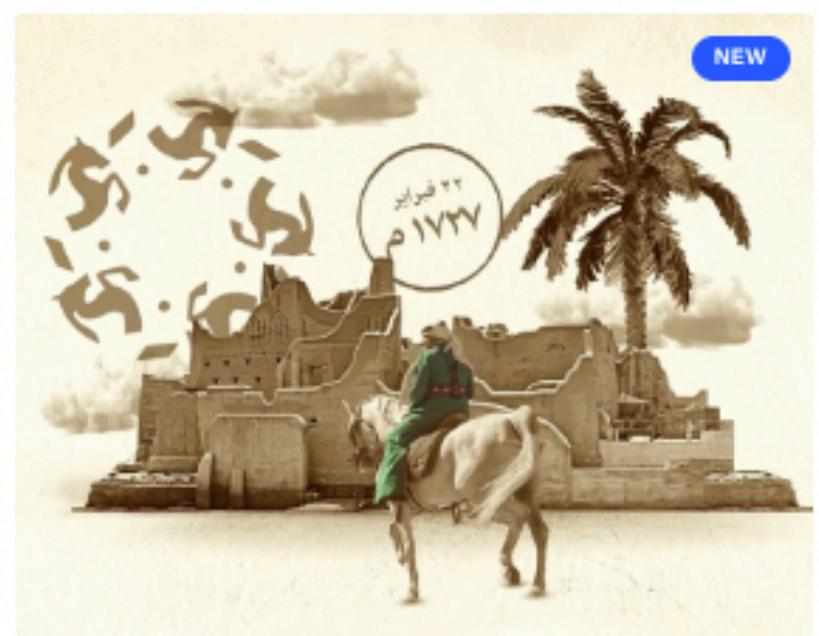
Donaldrp Hallia

240

1.6k

Multiple Owners

28 127





## Identify technologies on websites

Find out the technology stack of any website. Create lists of websites that use certain technologies, with company and contact details. Use our tools for lead generation, market analysis and competitor research.



## Empower your sales and marketing teams



### Website profiling

Find out what websites are built with.



### Lead generation

Find prospects by the technologies they use.



### Market research

Compare market shares and technology trends.



### Competitor analysis

Discover who uses competitors' software.



### Data enrichment

Technology, company and contact information.



### Custom reports

Create lists of websites and contacts.



### Website monitoring

Monitor website technology changes.



### Browser extension

See the technologies on websites you visit.



### CRM integration

See the technologies of your leads.



### Email verification

Improve delivery and mailing list quality.



### API access

Instant and real-time technology lookups.



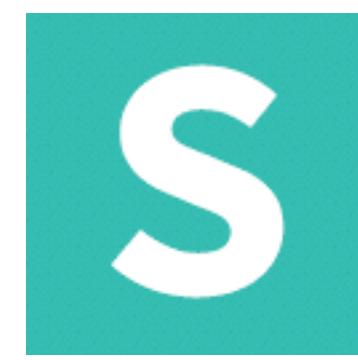
### Security recon

Reveal web technologies and version numbers.





 tailwindcss



 Pure.css  
CSS

BASE   GRIDS   FORMS   BUTTONS   TABLES   MENUS





What are the **pros** and  
**cons** of using frameworks?





# Pure HTML

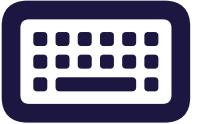
```
<form>
  <div class="form-group">
    <label for="inputUsername">Username</label>
    <input type="text" class="form-control" id="inputUsername" placeholder="Enter your username" required="required" name="username">
  </div>
  <div class="form-group">
    <label for="inputEmail">Email address</label>
    <input type="email" class="form-control" id="inputEmail" placeholder="Enter your email address" required="required" name="email">
  </div>
  <div class="form-group">
    <label for="inputPassword">Password</label>
    <input type="password" class="form-control" id="inputPassword" placeholder="Enter your password" required="required" name="password">
  </div>
  <div class="form-group">
    <label for="inputConfirmPassword">Confirm Password</label>
    <input type="password" class="form-control" id="inputConfirmPassword" placeholder="Enter your password again" required="required" name="confirm-password">
  </div>
  <button type="submit" class="btn btn-primary">Sign up</button>
</form>
```

```
<form>
  <label for="username">Username:</label>
  <input type="text" id="username" name="username" placeholder="Enter your username" required="required" name="username">
  <label for="email">Email address:</label>
  <input type="email" id="email" name="email" placeholder="Enter your email address" required="required" name="email">
  <label for="password">Password:</label>
  <input type="password" id="password" name="password" placeholder="Enter your password" required="required" name="password">
  <label for="confirm-password">Confirm Password:</label>
  <input type="password" id="confirm-password" name="confirm-password" placeholder="Enter your password again" required="required" name="confirm-password">
  <button type="submit">Sign up</button>
</form>
```

Sass

{less}

# Let's explore Sass & Bootstrap

 Demo

Sass

