

# Web Programming

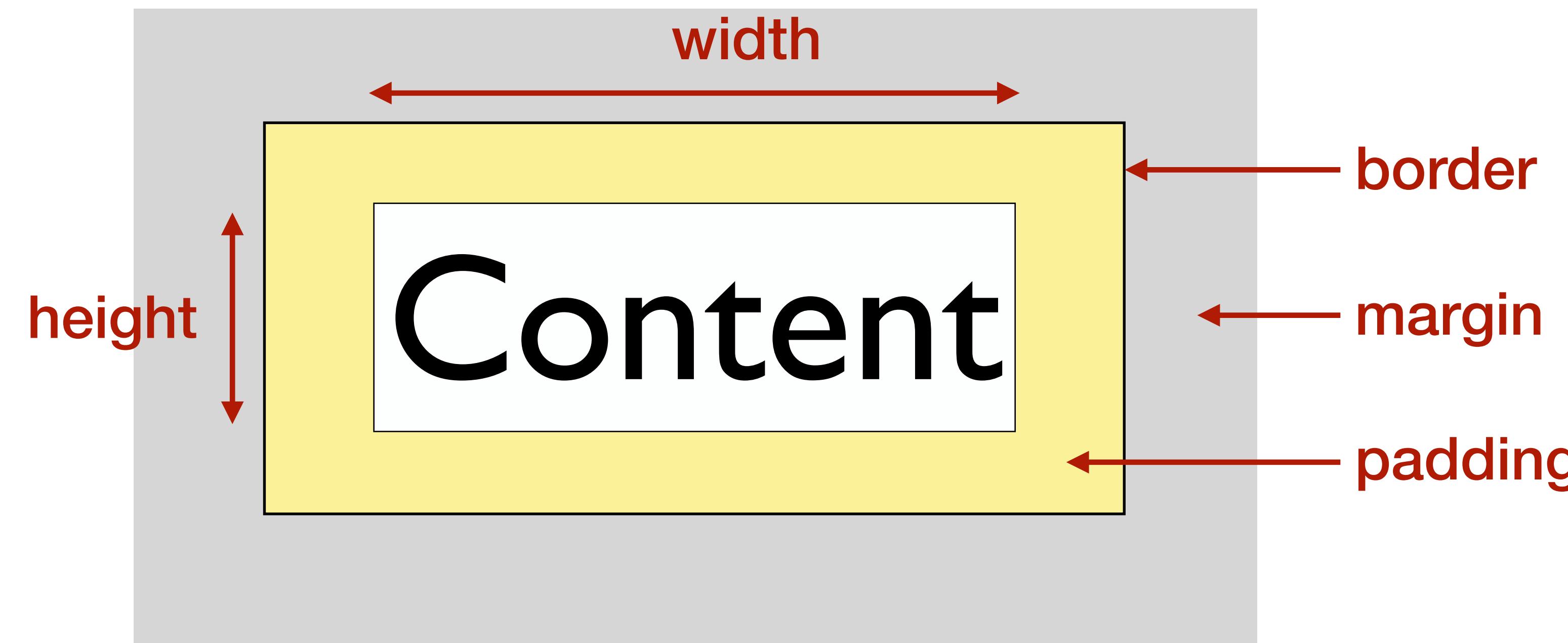
## **CSS Part III.**

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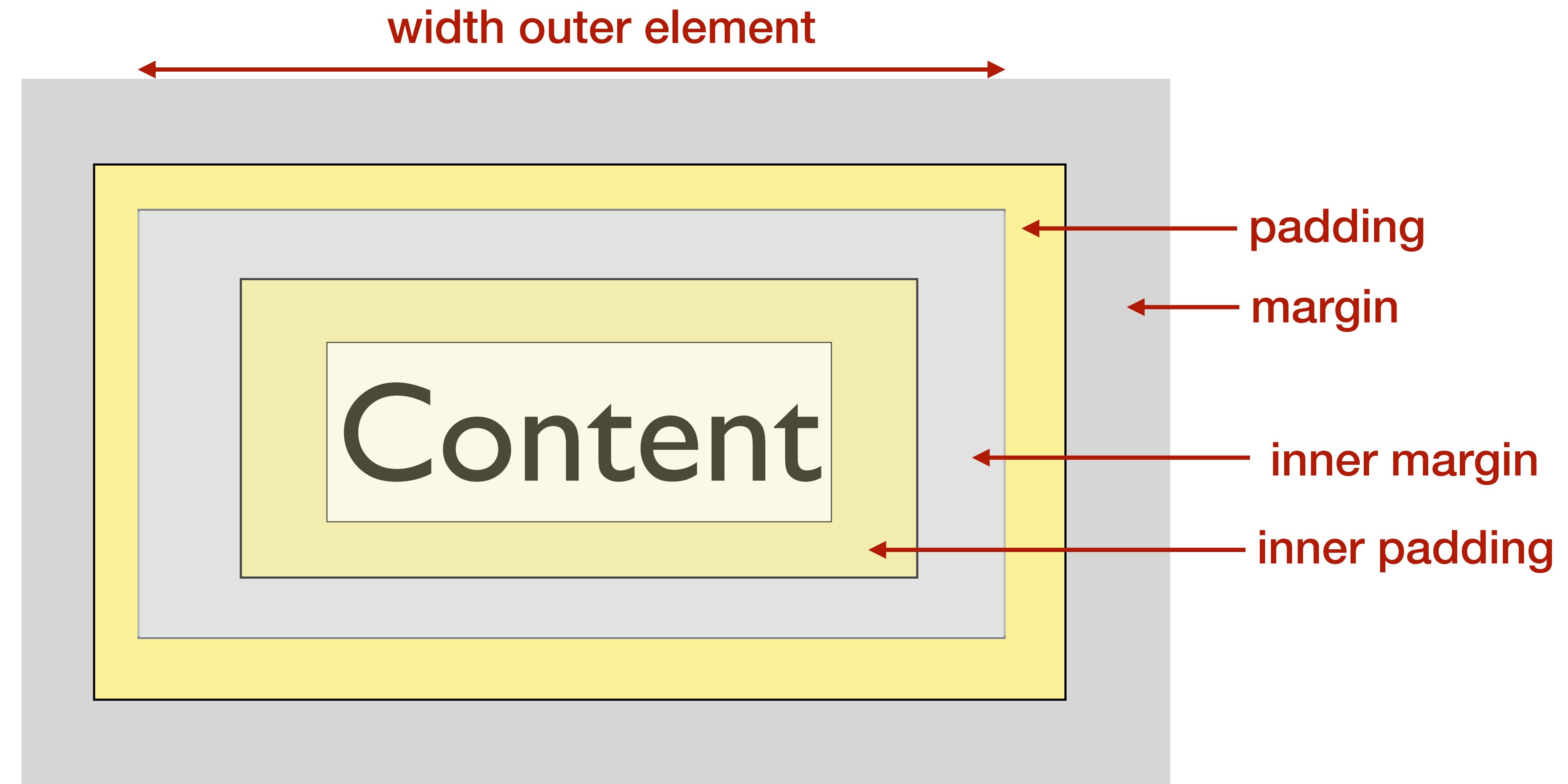
# **Part III**

# **Positioning**

# The Box Model



# nested block elements



# nested block elements

- **Width:** If not specified otherwise,  
total width of inner element  
 $= (\text{width} + \text{margin} + \text{border} + \text{padding})$   
 $= \text{width}$  of outer element
- **Height:** if outer element has no padding or border, vertical  
margin may collapse (overlap)

# Block level vs. inline

- Imagine that there is an invisible box around every HTML element
- **Block level elements** start on a new line
  - E.g., `<h1>`, `<p>`, `<ul>`, `<li>`, `<div>` ...
- **Inline elements** flow with the text
  - E.g., `<a>`, `<em>`, `<img>`, `<span>` ...



block level



inline

# **width property**

- By default, block elements are given a width equally to the parent element's width
- **width** applies only to block elements and to the **<img>** element

# Display type

- **display** specifies the type of box used for a HTML element
- Values:
  - **inline** block-level element acts like an inline element
  - **block** inline element acts like a block element
  - **inline-block** block-level element flows like an inline element, but retains other features of a block-level element
  - **none** element is hidden from the page
  - **(flex** ... later)

# Example

HTML

```
<ul>
    <li>Home</li>
    <li>About</li>
    <li>News</li>
    <li>Partners</li>
    <li>Contact</li>
</ul>
```

- Home
- About
- News
- Partners
- Contact

# Example: inline

CSS

```
li {  
    display: inline;  
    padding: 3px;  
    border: 1px solid grey;  
    width: 5em; ←  
}
```

has no effect (width of inline elements is ignored)



# Example: inline-block

CSS

```
li {  
    display: inline-block;  
    padding: 3px;  
    border: 1px solid grey;  
    width: 5em; ← has effect  
}
```



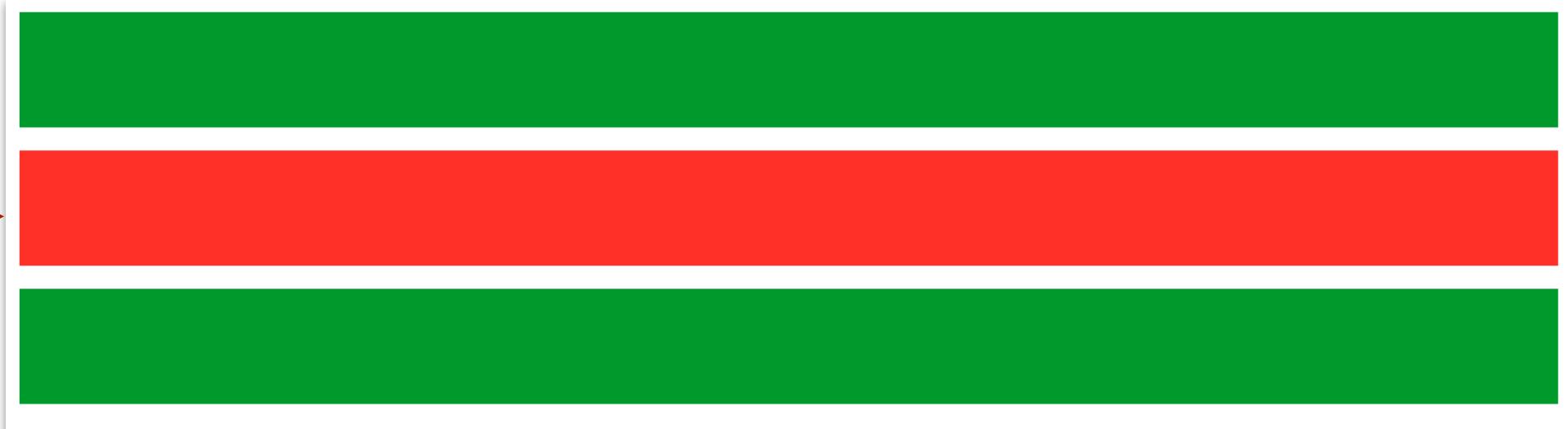
# Visibility

- **visibility** specifies whether an element is visible
- Values
  - **visible** the element is visible (default)
  - **hidden** the element is hidden (but it still takes up space!)
- Note: an element that is set to invisible will still takes up the space on the page
  - (Use **display: none;** for hiding it completely)

# Display vs. visibility

HTML

```
<div></div>
<div id="mydiv"></div>
<div></div>
```



CSS

```
#mydiv {
    display: none;
}
```

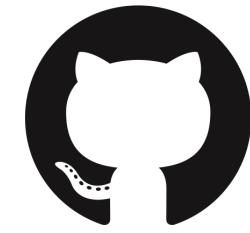


CSS

```
#mydiv {
    visibility: hidden;
}
```



# **Exercise #1**



[github.com/dat310-2024/info/tree/master/  
exercises/css/positioning](https://github.com/dat310-2024/info/tree/master/exercises/css/positioning)

# Positioning

- Property: **position**
- Values:
  - **static** default positioning
  - **relative** position relative to where it would normally appear
  - **absolute** position
  - **fixed** position

# Static positioning

- **position: static**
- Normal flow
- This is the default setting, no need to specify it
  - Unless needed to overwrite a positioning that had been previously set

# Example: normal flow

HTML

```
<div id="box_1"></div>
<div id="box_2"></div>
<div id="box_3"></div>
```

CSS

```
div {
    width: 200px;
    height: 200px;
}
#box_1 {
    background: #ee3e64;
}
#box_2 {
    background: #44accf;
}
#box_3 {
    background: #b7d84b;
}
```



# Relative positioning

- **position: relative**
- Move it relatively to where it would have been in the normal flow using **top** or **bottom**, and **left** or **right**
- Unit: px, %, em, etc.

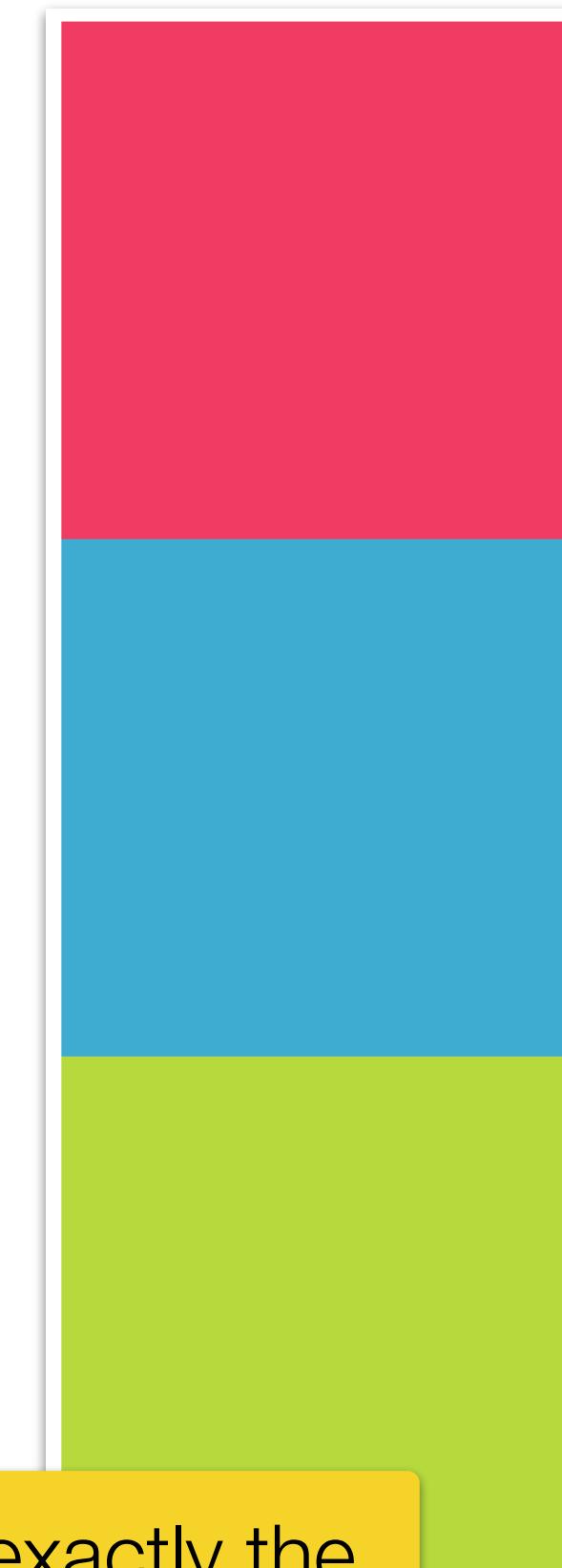
# Example

HTML

```
<div id="box_1"></div>
<div id="box_2"></div>
<div id="box_3"></div>
```

CSS

```
div {
    width: 200px;
    height: 200px;
}
#box_1 {
    background: #ee3e64;
}
#box_2 {
    background: #44accf;
    position: relative;
}
#box_3 {
    background: #b7d84b;
}
```



No offset defined, so far it behaves exactly the same way as statically positioned elements.

# Example

⌚ examples/css/positioning/position\_relative.html

HTML

```
<div id="box_1"></div>
<div id="box_2"></div>
<div id="box_3"></div>
```

CSS

```
div {
    width: 200px;
    height: 200px;
}
#box_1 {
    background: #ee3e64;
}
#box_2 {
    background: #44accf;
    position: relative;
    left: 30px;
    bottom: 10px;
}
#box_3 {
    background: #b7d84b;
}
```



Pushed 30px from the left and  
10px from the bottom.

# Absolute positioning

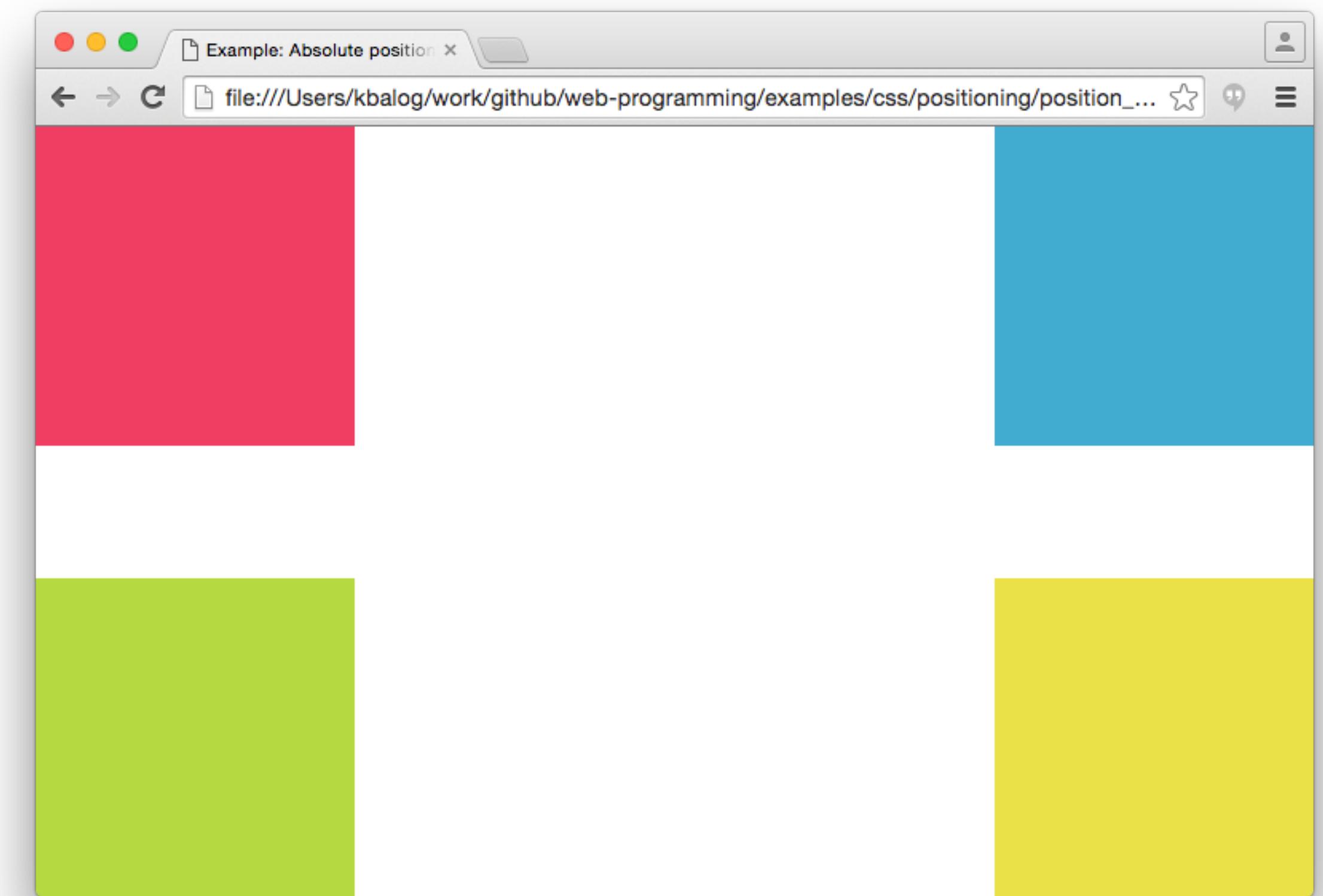
- **position: absolute**
- Element's position is set with respect to its containing element
  - That is the first parent element with a position **other than static**
- Set **top**, **bottom**, **left**, or **right**
  - in pixels, percentages, or em
- Element is taken out of the normal flow (no longer affects the position of other elements)

# Example

⌚ examples/css/positioning/position\_absolute.html

CSS

```
#box_1 {  
    background: #ee3e64;  
    position: absolute;  
    top: 0;  
    left: 0;  
}  
  
#box_2 {  
    background: #44accf;  
    position: absolute;  
    top: 0;  
    right: 0;  
}  
  
#box_3 {  
    background: #b7d84b;  
    position: absolute;  
    bottom: 0;  
    left: 0;  
}  
  
#box_4 {...}
```



# Example #2

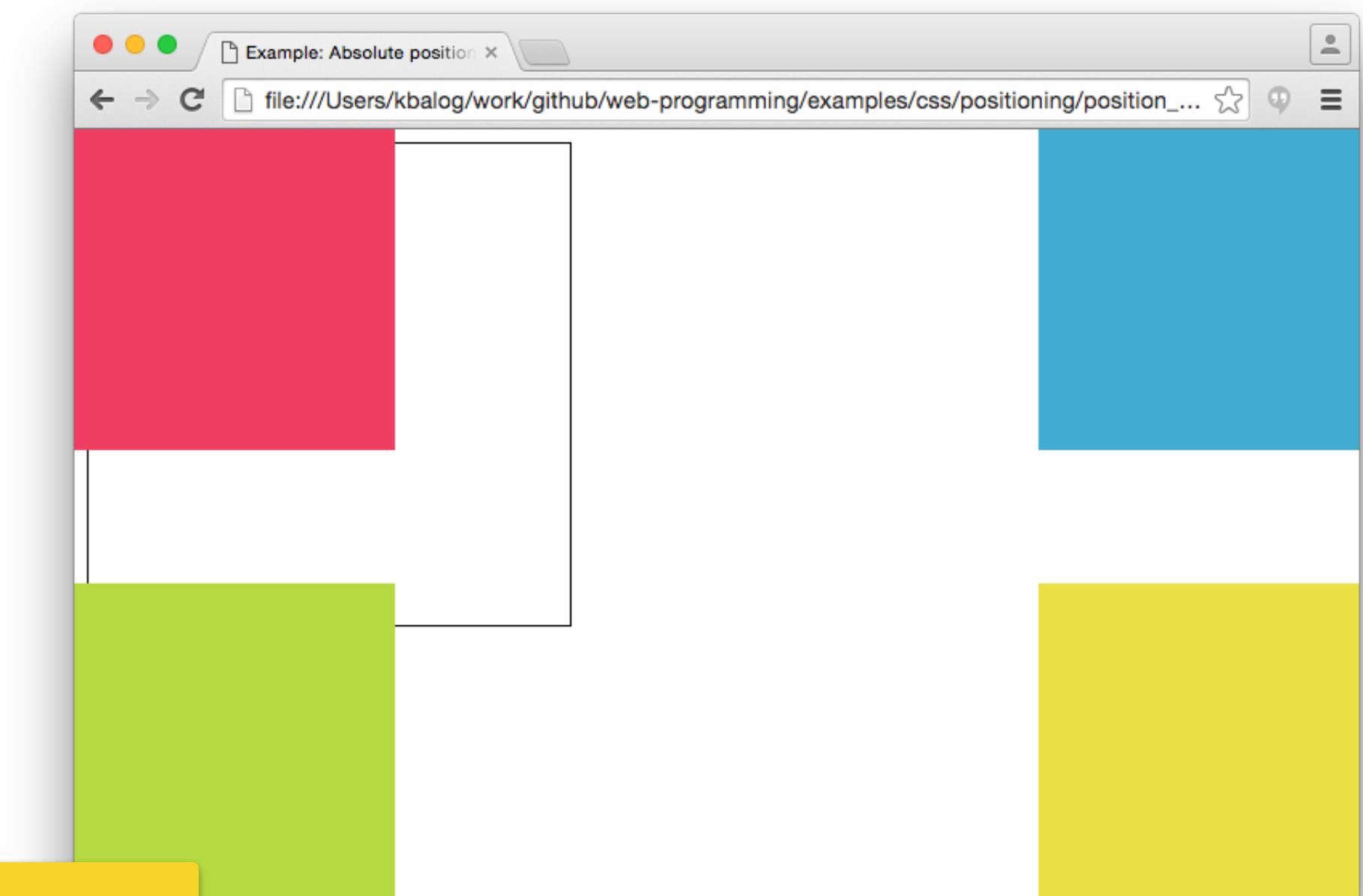
- Absolute positioning is specifies relation with respect to the parent element (first element with non-static position)!

**HTML**

```
<div id="container">
  <div id="box_1"></div>
  <div id="box_2"></div>
  <div id="box_3"></div>
  <div id="box_4"></div>
</div>
```

**CSS**

```
#container {
  border: 1px solid black;
  width: 300px;
  height: 300px;
}
```



No position defined for  
#container (i.e., static).

# Example #2

examples/css/positioning/position\_absolute2.html

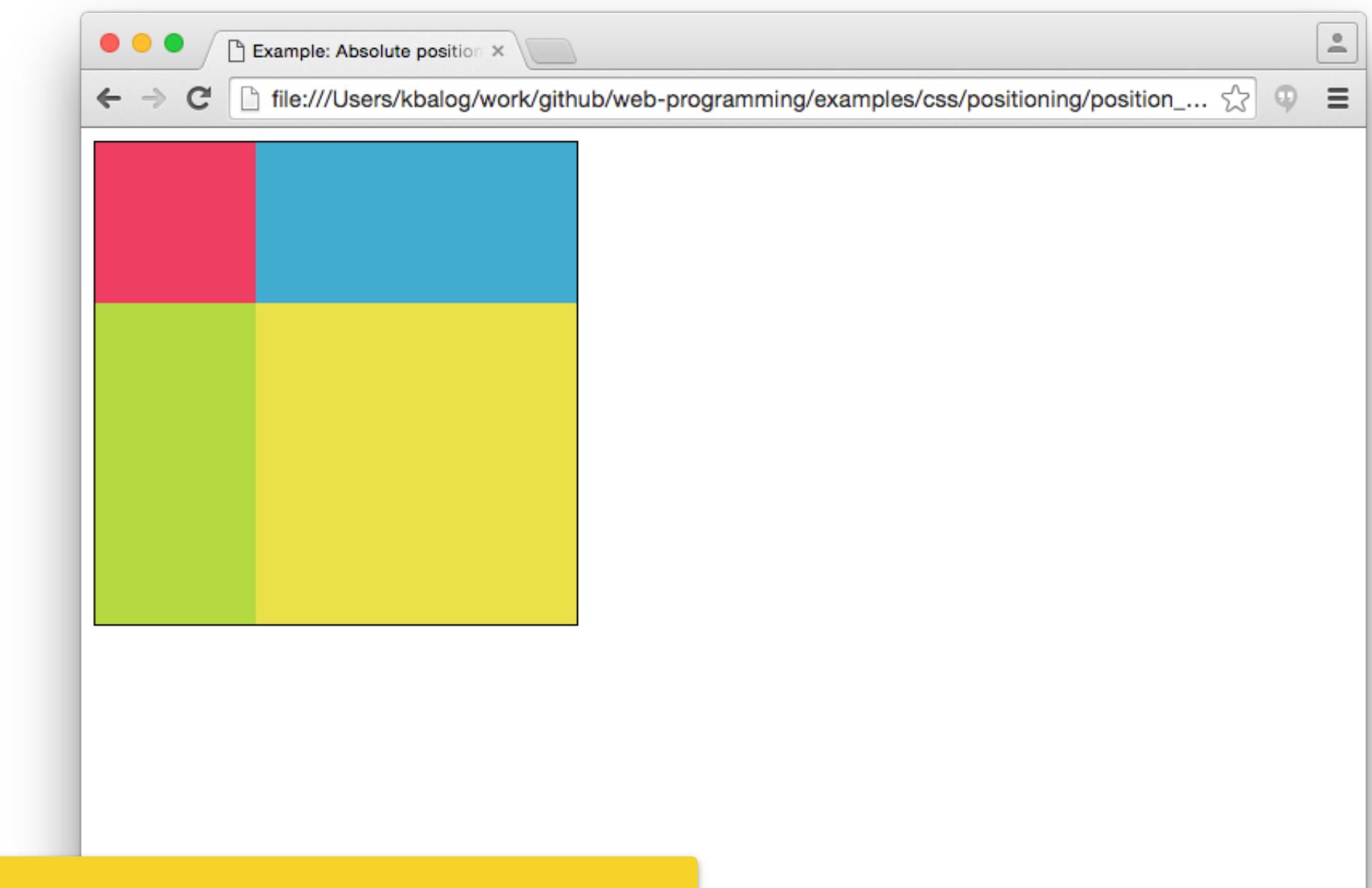
- Absolute positioning is specifies relation with respect to the parent element (first element with non-static position)!

**HTML**

```
<div id="container">
  <div id="box_1"></div>
  <div id="box_2"></div>
  <div id="box_3"></div>
  <div id="box_4"></div>
</div>
```

**CSS**

```
#container {
  border: 1px solid black;
  width: 300px;
  height: 300px;
  position: relative;
}
```



Non-static position for #container, boxes will be positioned with respect to this.

# Fixed positioning

- **position: fixed**
- Element's position is set with respect to the browser window
  - Remains there even when the user scrolls
- Set **top**, **bottom**, **left**, or **right**
  - in pixels, percentages, or em
- Element is taken out of the normal flow (no longer affects the position of other elements)

# Example

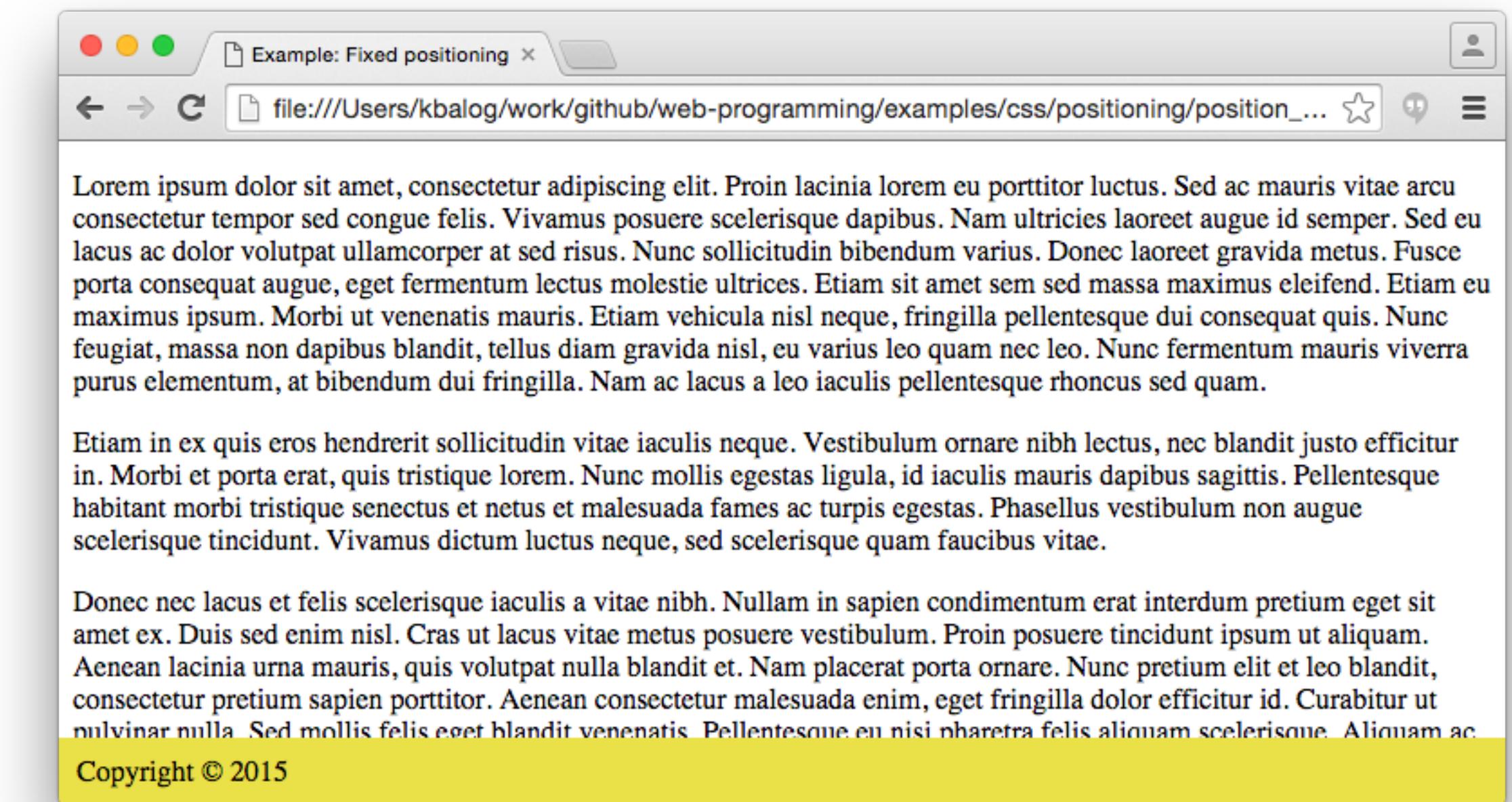
examples/css/positioning/position\_fixed.html

HTML

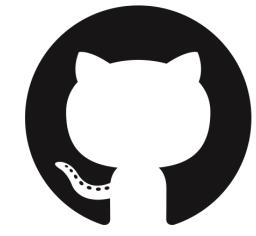
```
<p> ... </p>
<div id="footer">Copyright
&copy; 2015</div>
```

CSS

```
#footer {
    background: #ebde52;
    position: fixed;
    left: 0;
    right: 0;
    bottom: 0;
    padding: 10px;
}
```



# **Exercise #2**



[github.com/dat310-2024/info/tree/master/  
exercises/css/positioning](https://github.com/dat310-2024/info/tree/master/exercises/css/positioning)

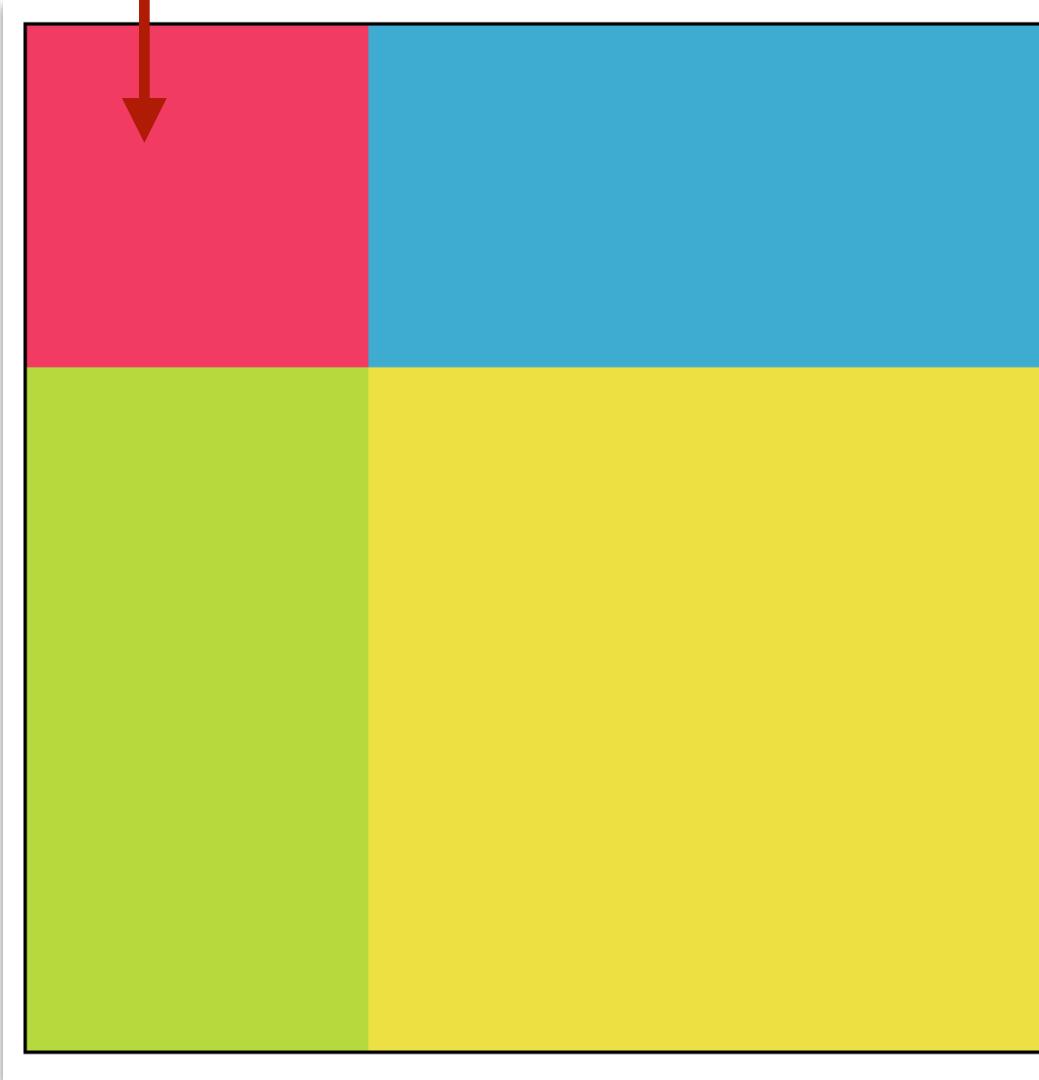
# Stacking elements

- Property: **z-index**
- Value: stack order of the element  
`z-index: 3;`
- Z-index only works on positioned elements!
  - **position:absolute**, **position:relative**, or **position:fixed**

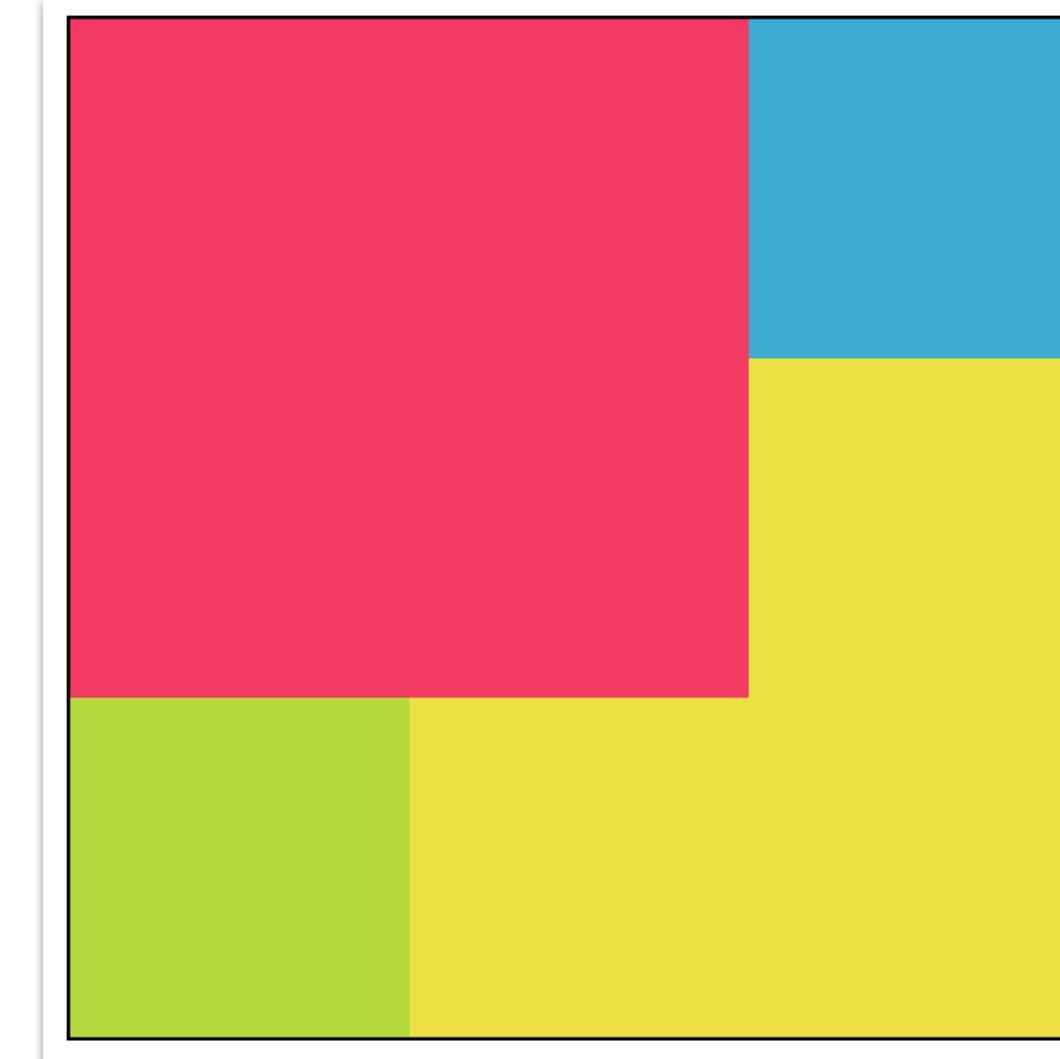
# Example

⌚ examples/css/positioning/z\_index.html

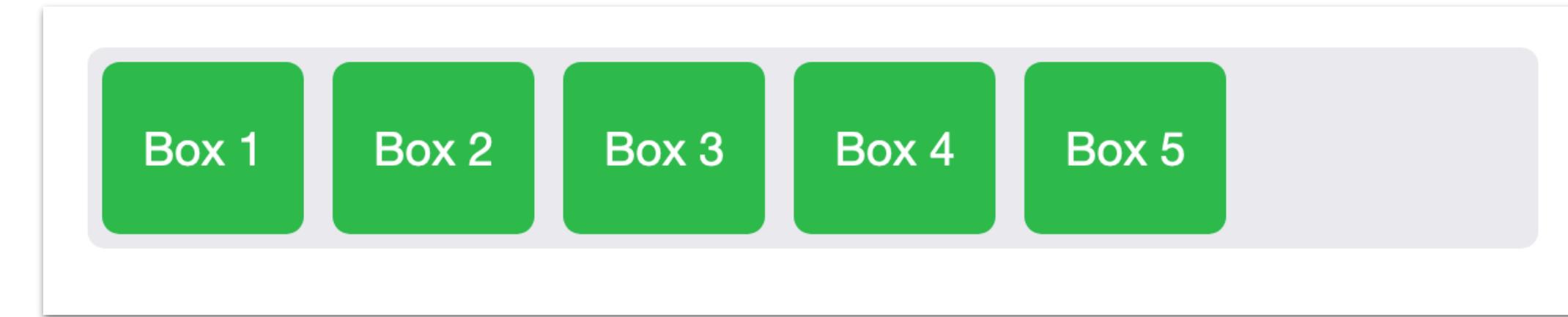
```
#box_1 {  
    background: #ee3e64;  
    position: absolute;  
    top: 0;  
    left: 0;  
}
```



```
#box_1 {  
    background: #ee3e64;  
    position: absolute;  
    top: 0;  
    left: 0;  
    z-index: 3;  
}
```



# Flexbox



- Flexibly arrange elements within container
- **display:flex;** on container
- Elements within the container are displayed next to each other.
- More: [https://www.w3schools.com/css/css3\\_flexbox.asp](https://www.w3schools.com/css/css3_flexbox.asp)

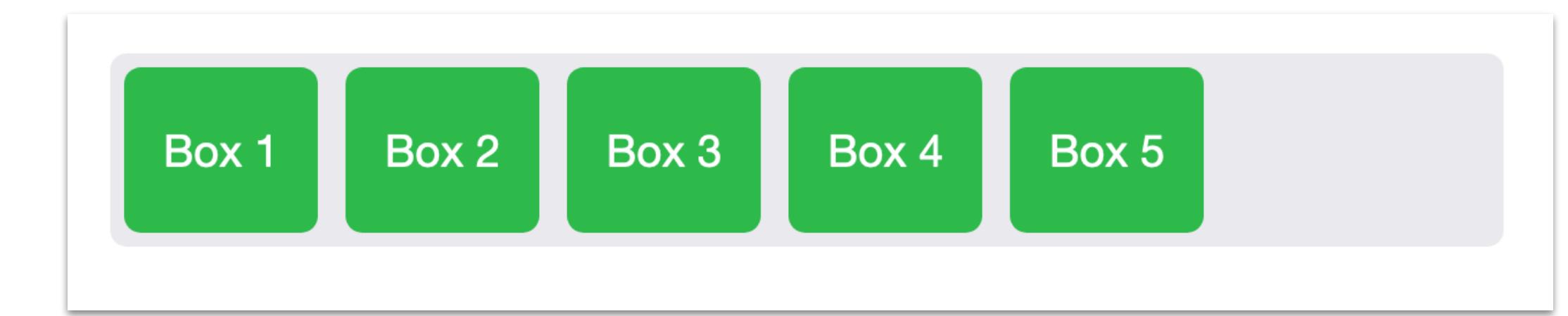
# Example

HTML

```
<div class="container">
  <div class="box">Box 1</div>
  ...
  <div class="box">Box 5</div>
</div>
```

CSS

```
.container {
  background: #eaeaed;
  display: flex;
}
.box {
  background: #2db34a;
  margin: 5px;
  width: 70px;
  padding: 20px 0;
  text-align: center;
}
```



# Flexbox: justify-content

- Property: **justify-content** on flex container:  
how to align items in flex container horizontally.
- Values:
  - **flex-start** (default) at beginning, i.e. left
  - **flex-end** at end, i.e. right
  - **center** centered
  - **space-around** equal space around items
  - **space-between** equal space between items

# Example

CSS

```
.container {  
    ...  
    justify-content: center;  
}
```



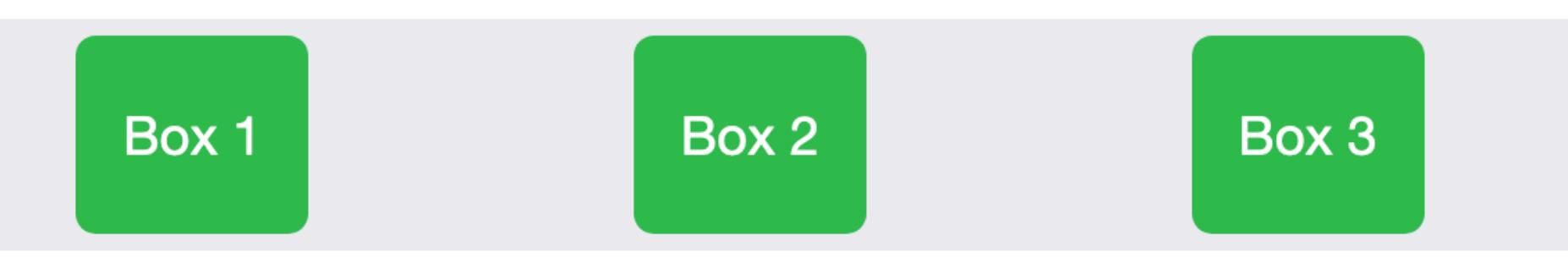
CSS

```
.container {  
    ...  
    justify-content: flex-end;  
}
```



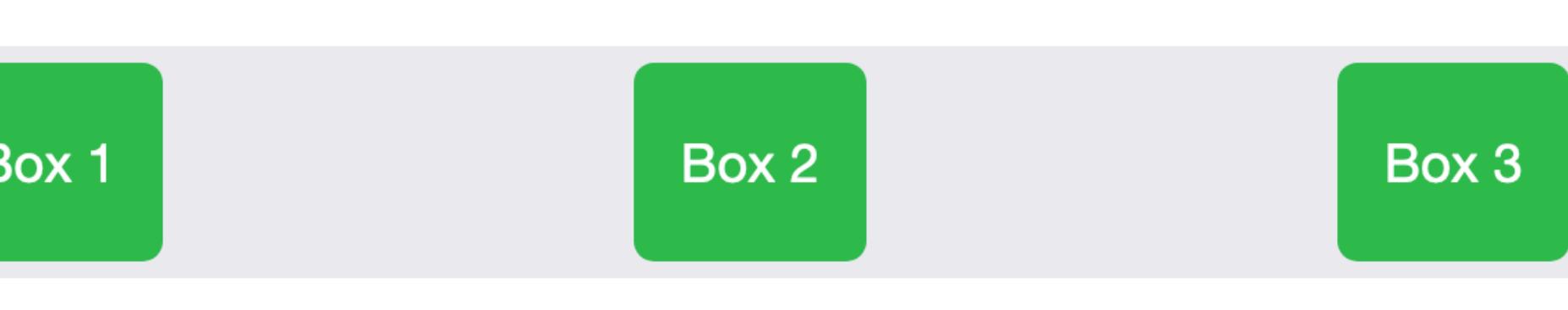
CSS

```
.container {  
    ...  
    justify-content: space-around;  
}
```



CSS

```
.container {  
    ...  
    justify-content: space-between;  
}
```



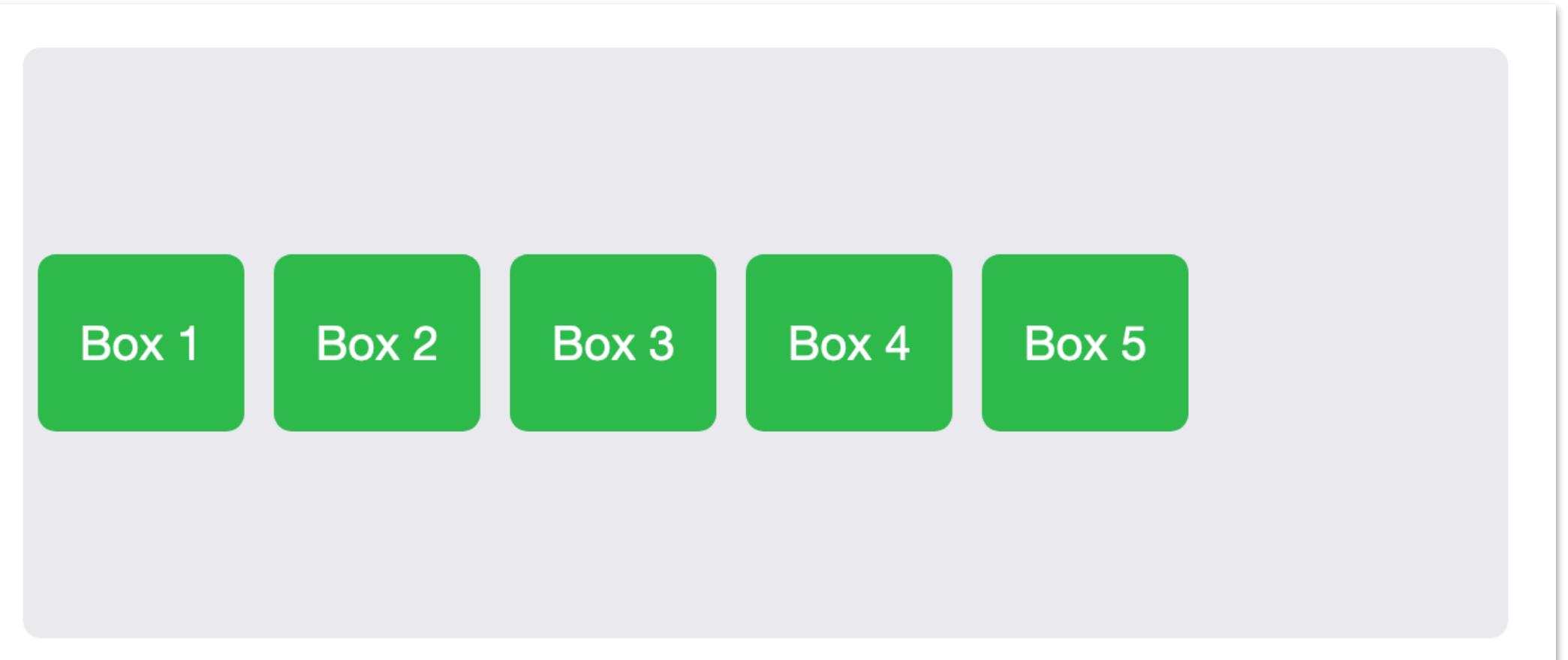
# Flexbox: align-items

- Property: **align-items** on flex container:  
how to align items in flex container vertically.
- Values:
  - **flex-start** (default) at beginning, i.e. top
  - **flex-end** at end, i.e. bottom
  - **center** centered
  - **stretch** stretch items to fill container
  - **baseline** place items on common baseline

# Example

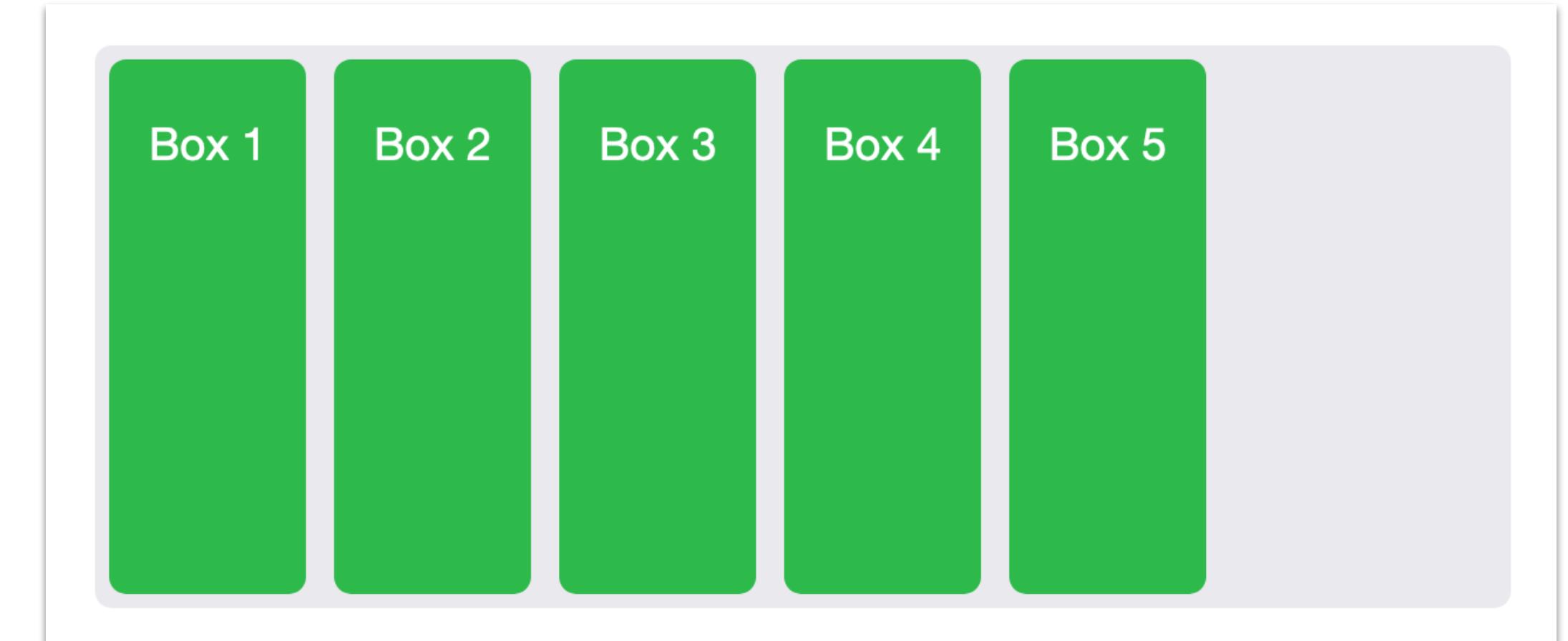
CSS

```
.container {  
  ...  
  height: 200px;  
  align-items: center;  
}
```



CSS

```
.container {  
  ...  
  align-items: stretched;  
}
```



# Flexbox: flex-wrap

- Property: **flex-wrap** on flex container:  
allow items in flex container to wrap to new line.
- Values:
  - **nowrap** (default) do not wrap
  - **wrap** do wrap

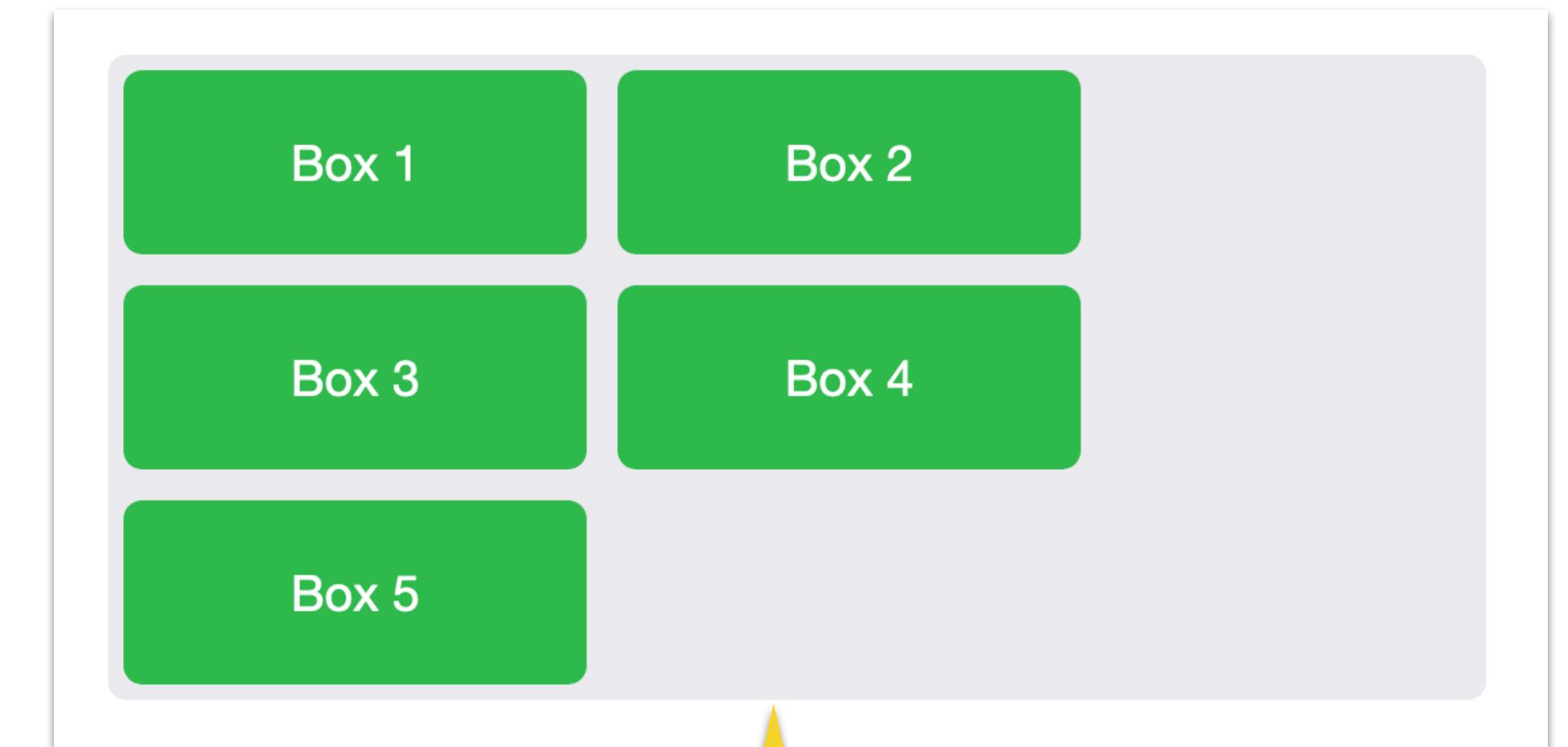
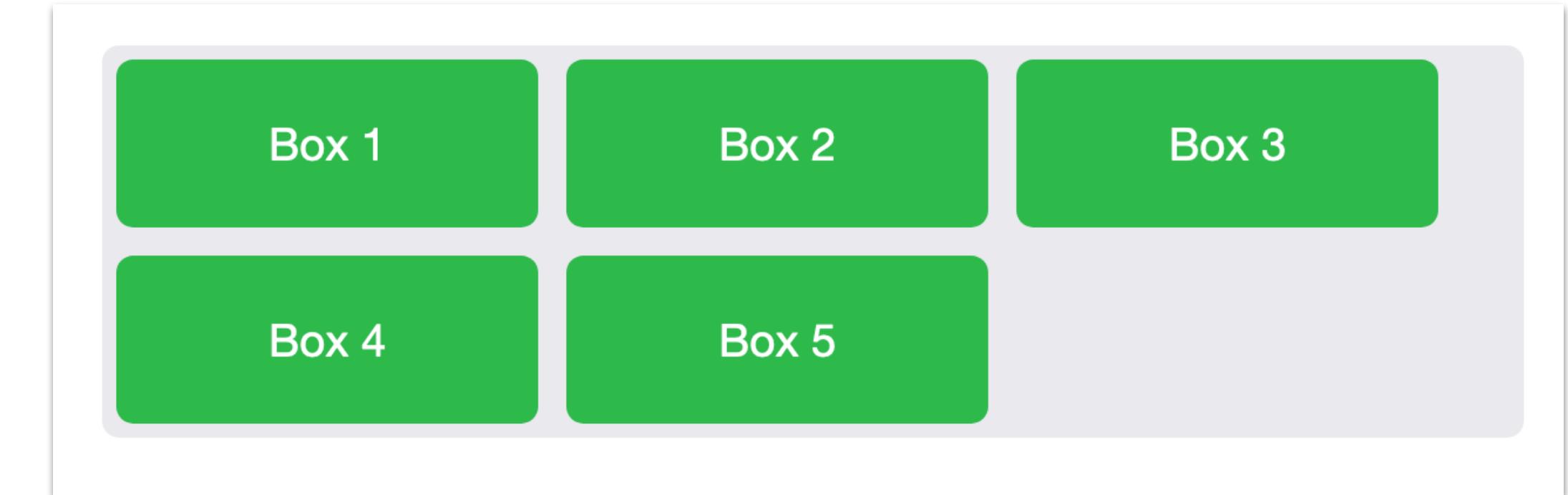
# Example

HTML

```
<div class="container">
  <div class="box">Box 1</div>
  ...
  <div class="box">Box 5</div>
</div>
```

CSS

```
.container {
  background: #eaeaed;
  display: flex;
  flex-wrap: wrap;
}
.box {
  background: #2db34a;
  margin: 5px;
  width: 150px;
  padding: 20px 0;
  text-align: center;
}
```



Dynamically **adjust #items** per row  
to page/container width!

# Flexitem: flex-direction

- Property: **flex-direction** on flex container:  
defines direction to arrange flex items inside container.
- Values:
  - **row** (default) items arranged next to each other horizontally
  - **column** items arranged below each other vertically
  - **(row-reverse)** horizontally in reversed order
  - **(column-reverse)** vertically in reversed order

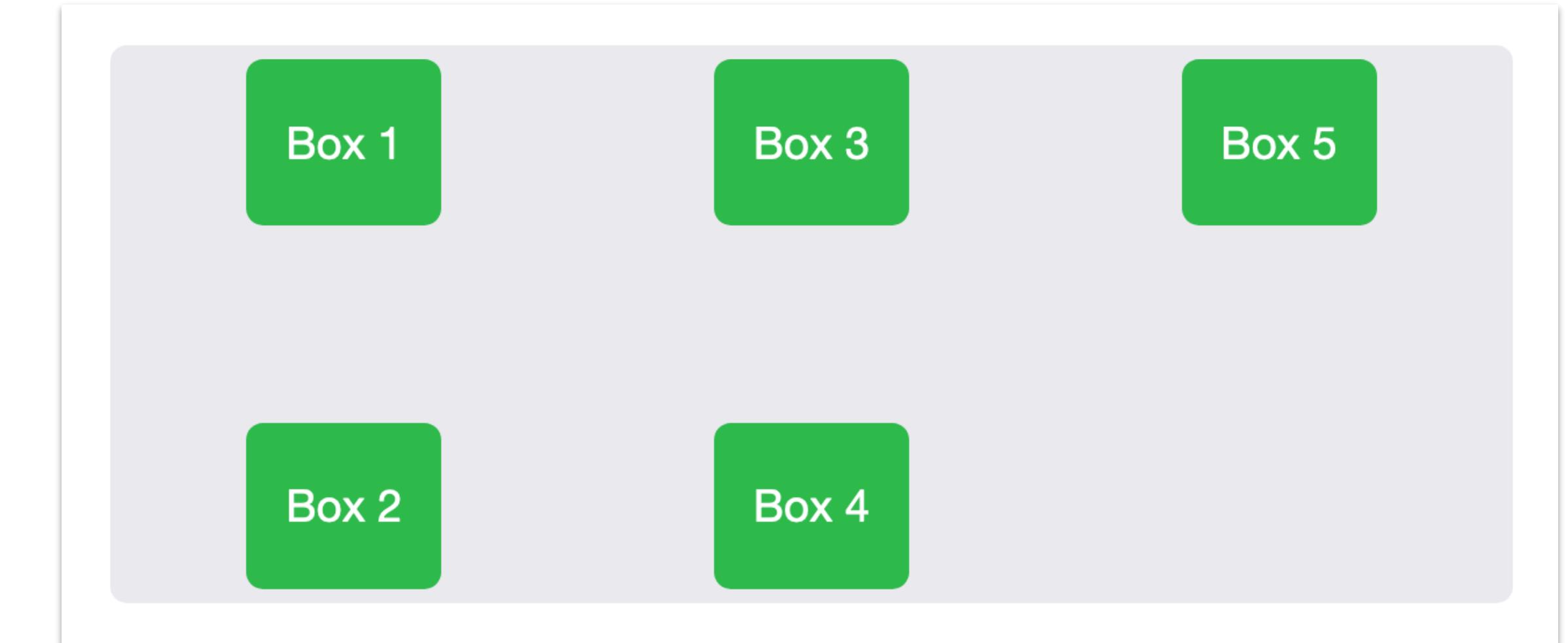
# Example

HTML

```
<div class="container">
  <div class="box">Box 1</div>
  ...
  <div class="box">Box 5</div>
</div>
```

CSS

```
.container {
  background: #eaeaed;
  display: flex;
  flex-direction: column;
  align-items: center;
  justify-content: space-between;
}
```



**align-items** Now applied **horizontally!**

**justify-content** Now applied **vertically!**

# Flexbox: flex-grow and shrink

- Property: **flex-grow** on flex item:  
allows items in flex container grow to fit the line.
- Values:
  - **0** (default) do not grow
  - **1** do grow
  - **2...** grow 2 times as much as items with **flex-grow: 1;**
- Property: **flex-shrink** on flex item:  
allows items in flex container shrink to fit the line.
- Default value: **1** do shrink

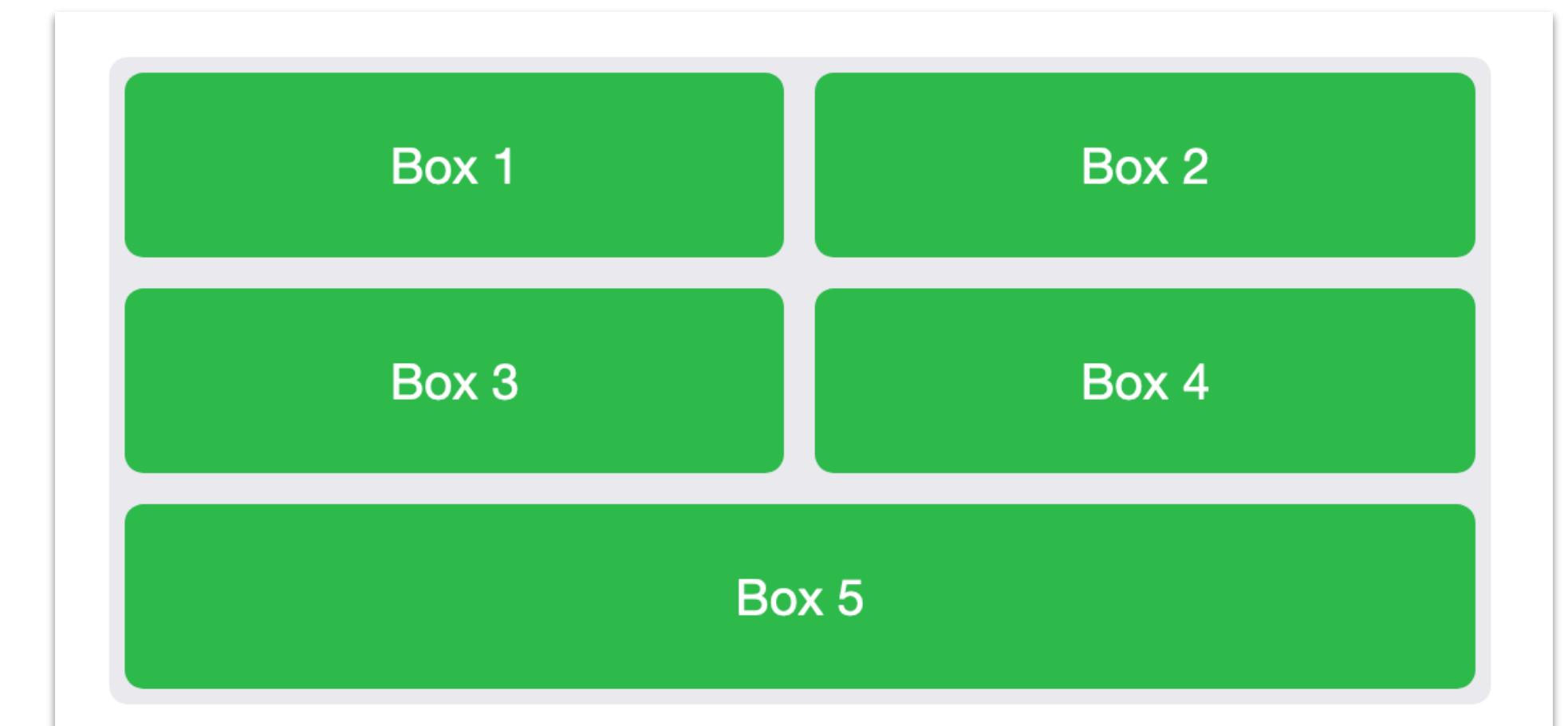
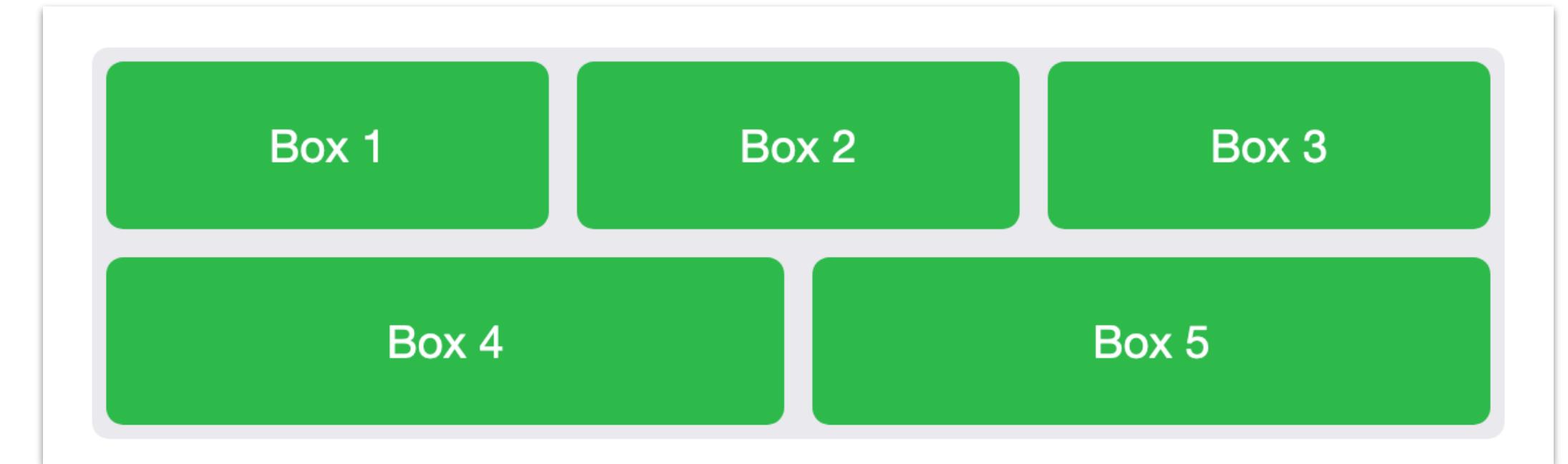
# Example

HTML

```
<div class="container">
  <div class="box">Box 1</div>
  ...
  <div class="box">Box 5</div>
</div>
```

CSS

```
.container {
  background: #eaeaed;
  display: flex;
  flex-wrap: wrap;
}
.box {
  background: #2db34a;
  margin: 5px;
  width: 150px;
  padding: 20px 0;
  text-align: center;
  flex-grow: 1;
}
```



# Overflow

- The **overflow** property specifies what happens if content overflows an element's box
- Values:
  - **visible** content renders outside the element's box (default)
  - **hidden** the overflow is clipped, the rest of the content is visible
  - **scroll** the overflow is clipped, but a scrollbar is added to see the rest
  - **auto** if overflow is clipped, a scrollbar is added

# Example

examples/css/positioning/overflow.html

HTML

```
<div class="box">
  <h3>Heading</h3>
  <p>
    Lorem ipsum ...
  </p>
</div>
```

CSS

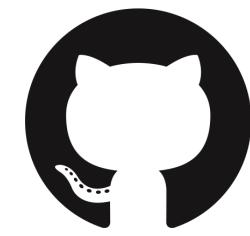
```
.box {
  background: #eaeaed;
  width: 400px;
  height: 200px;
  overflow: scroll;
}
```

Heading

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Donec sodales neque quis nisi facilisis lobortis. Nam efficitur eget nisi sit amet bibendum. Vestibulum elementum faucibus quam ut posuere. Vivamus pellentesque luctus nunc at bibendum. Mauris viverra ultrices nisi, sit amet imperdiet lectus accumsan eu. Morbi ornare diam nulla, nec aliquet nisl accumsan dictum. Mauris sit amet tellus in ipsum commodo hendrerit. Nunc at mollis magna. Proin felis nibh, venenatis non lobortis quis, ullamcorper nec dolor.

scroll bar

# **Exercise #3 & #4**



[github.com/dat310-2024/info/tree/master/  
exercises/css/positioning](https://github.com/dat310-2024/info/tree/master/exercises/css/positioning)

# **Some common issues**

# Center align block element

⌚ examples/css/positioning/center\_horizontal.html

- To horizontally center a block element (like `<div>`), use

```
margin: auto;
```

- Center aligning has no effect if the `width` property is not set (or set to 100%)
- See also [http://www.w3schools.com/css/css\\_align.asp](http://www.w3schools.com/css/css_align.asp)



# Floating elements

- Allow elements to appear next to each other
- **float: left** or **float: right**
- Element is taken out of the normal flow and placed as far to the left or right of the containing (block) element as possible
  - Also set the **width** property (otherwise it'll take up the full width of the containing element)
  - If you want a bit distance from the edge, set the **margin** on the floating element

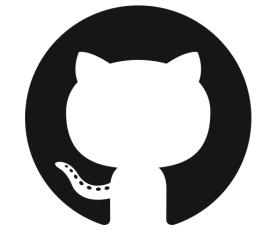
# Wrap text around image

⌚ examples/css/positioning/wrap\_image.html

- Float the image (left or right); the text will automatically wrap around it



# **Exercise #5**



[github.com/dat310-2024/info/tree/master/  
exercises/css/positioning](https://github.com/dat310-2024/info/tree/master/exercises/css/positioning)

# Icons

# Icons

- Often used for mobile pages, since they take less space.
- **Font Awesome**

HTML file

```
<head>
    <link rel="stylesheet" href="https://cdnjs.cloudflare.com/
ajax/libs/font-awesome/4.7.0/css/font-awesome.min.css" />
</head>

<body>
    <i class="fa fa-home"></i>
```

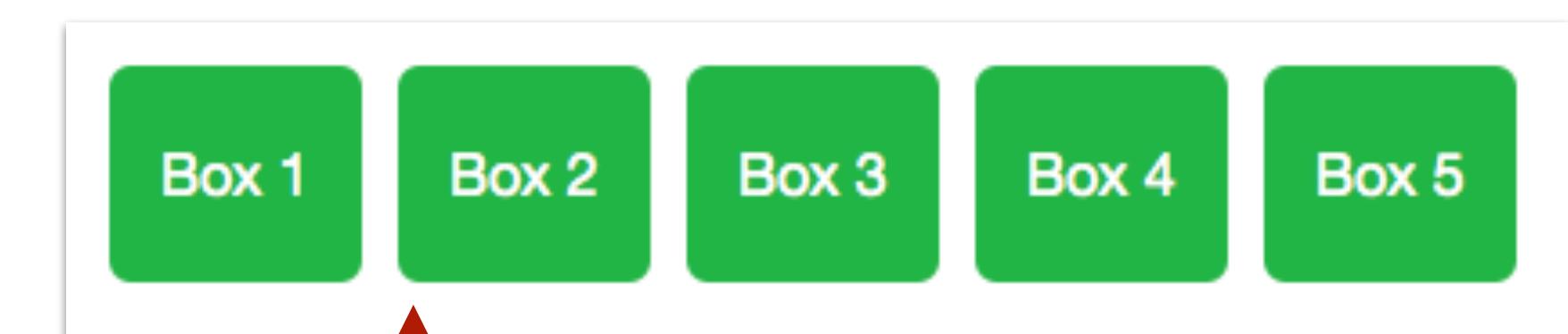
- <https://fontawesome.com/v4.7.0/icons/>

# Example

- Use float for old browsers where flexbox is not available.

**HTML**

```
<div class="box-set">
  <div class="box">Box 1</div>
  ...
  <div class="box">Box 5</div>
</div>
```



**CSS**

```
.box-set {
  background: #eaeaed;
}
.box {
  background: #2db34a;
  float: left;
  margin: 5px;
  width: 70px;
  padding: 20px 0;
  text-align: center;
}
```

The box-set container is supposed to have a colored background?!

# Parents of floated elements

- If a containing element contains *only* floating elements, some browsers will treat it 0 pixels tall
- Solution: "overflow" technique
  - Set for parent element:

```
overflow: auto;  
width: 100%;
```

- **width** is required because of older browsers (doesn't have to be 100%)
  - Parent element will have an actual height this way
- Alternative solution: "clearfix" technique
  - See references slide or google it

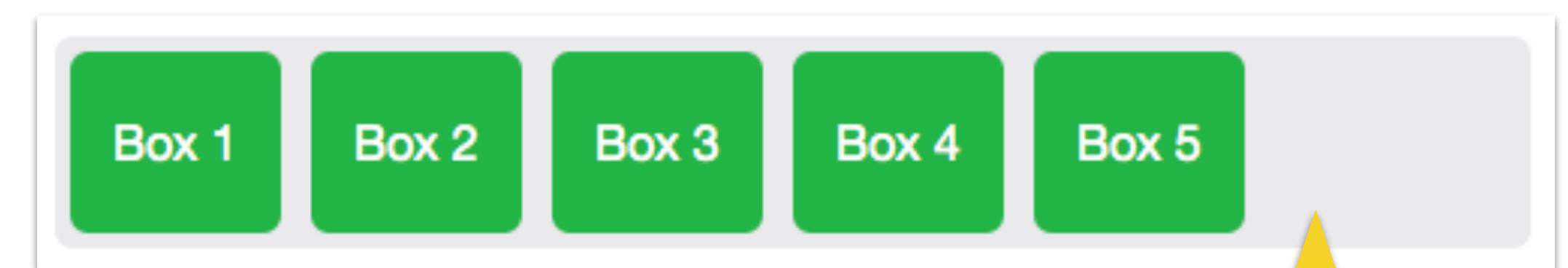
# Example

HTML

```
<div class="box-set">
  <div class="box">Box 1</div>
  ...
  <div class="box">Box 5</div>
</div>
```

CSS

```
.box-set {
  background: #eaeaed;
  overflow: auto;
  width: 100%;
}
```



Colored background is now visible.

# Clearing floats

- Disallows floating elements from overlapping other elements
- Property: **clear**
- Values
  - **none** — elements can touch either side (default)
  - **left** — no floating elements allowed on the left side
    - I.e., left-hand side of the box should not touch any other elements appearing in the same containing element
  - **right** — no floating elements allowed on the right side
  - **both** — no floating elements allowed on either the left or the right side

# Example

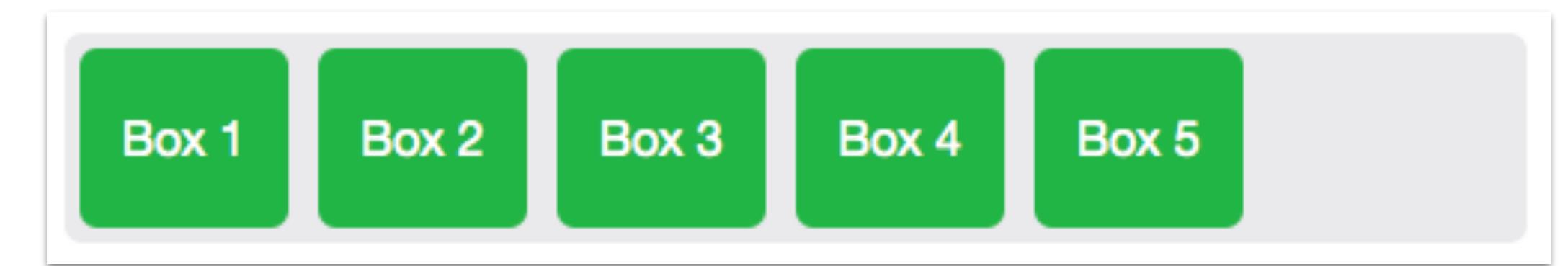
**clear: none**

**HTML**

```
<div class="box-set">
  <div class="box">Box 1</div>
  <div class="box">Box 2</div>
  <div class="box clearbox">
    Box 3</div>
  <div class="box">Box 4</div>
  <div class="box">Box 5</div>
</div>
```

**CSS**

```
.clearbox {
  clear: none;
}
```



# Example

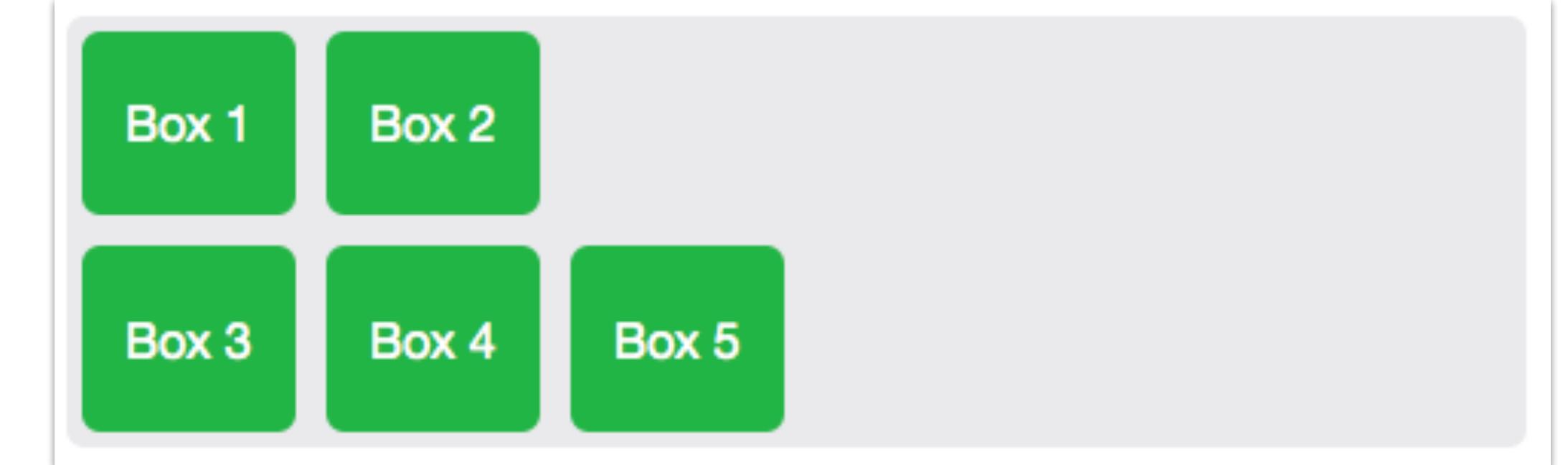
**clear: left**

**HTML**

```
<div class="box-set">
  <div class="box">Box 1</div>
  <div class="box">Box 2</div>
  <div class="box clearbox">
    Box 3</div>
  <div class="box">Box 4</div>
  <div class="box">Box 5</div>
</div>
```

**CSS**

```
.clearbox {
  clear: left;
}
```



# Example

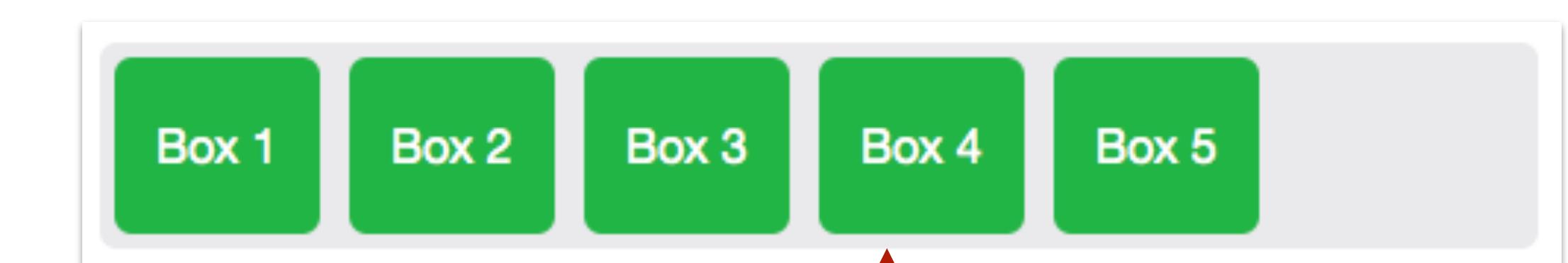
**clear: right**

**HTML**

```
<div class="box-set">
  <div class="box">Box 1</div>
  <div class="box">Box 2</div>
  <div class="box clearbox">
    Box 3</div>
  <div class="box">Box 4</div>
  <div class="box">Box 5</div>
</div>
```

**CSS**

```
.clearbox {
  clear: right;
}
```



Why is Box 4 not in a new row?!

**Clear only clears the floats preceding the element in the document source!**

# **Layouts**

# Page sections

Devide page layout into parts:  
- create container element for each part

## 2-column layout

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Duis tempus, ipsum at tristique mollis, nunc nisi congue tortor, sit amet fermentum metus dui eu enim. Pellentesque in finibus augue. Integer lacinia lacus, elementum sed pretium a, accumsan vel elit. Class aptent taciti sociosqu ad litora torquent per conubia nostra, per inceptos himenaeos. Vestibulum facilisis volutpat justo, sed congue lorem malesuada eu. Nunc iaculis tellus mi, in accumsan diam ullamcorper at. Ut ac magna in lorem egestas consectetur. Curabitur et pretium turpis, nec posuere nunc. Quisque sem arcu, aliquet ac feugiat a, dapibus sed mauris. Nullam non augue non ligula dapibus venenatis. Aenean vestibulum lacinia eget magna pulvinar, elementum sagittis nisl rutrum.

Aenean vestibulum libero pretium faucibus tempus. In a mattis nunc. Duis  
[Accept our cookie policy.](#)

- Item #1
- Item #2
- Item #3

# Page sections

page wrapper

## 2-column layout

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- Item #1
- Item #2
- Item #3

Aenean vestibulum libero pretium faucibus tempus. In a mattis nunc. Duis

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footer

# Page sections

page wrapper

## 2-column layout

header

main

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- Item #1
- Item #2
- Item #3

Aenean vestibulum libero pretium faucibus tempus. In a mattis nunc. Duis

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footer

# Page sections

page wrapper

2-column layout

header

article main

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Duis tempus, ipsum at tristique mollis, nunc nisi congue tortor, sit amet fermentum metus dui eu enim. Pellentesque in finibus augue. Integer lacus lacus, elementum sed pretium a, accumsan vel elit. Class aptent taciti sociosqu ad litora torquent per conubia nostra, per inceptos himenaeos. Vestibulum facilisis volutpat justo, sed congue lorem malesuada eu. Nunc iaculis tellus mi, in accumsan diam ullamcorper at. Ut ac magna in lorem egestas consectetur. Curabitur et pretium turpis, nec posuere nunc. Quisque sem arcu, aliquet ac feugiat a, dapibus sed mauris. Nullam non augue non ligula dapibus venenatis. Aenean vestibulum lacus eget magna pulvinar, elementum sagittis nisl rutrum.

- Item #1
- Item #2
- Item #3

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footer

# Page sections

```
<div id="header">
```

```
<div id="nav">
```

```
<div class="main">
```

```
<div id="sidebar">
```

```
<div id="footer">
```

```
<header>
```

```
<nav>
```

```
<main>
```

```
<aside>
```

```
<footer>
```

*Classic HTML*

*HTML5*

# Page sections

```
<div class="article">  
  <div class="section">
```

```
<article>  
  <section>
```

```
<div class="article">  
  <div class="section">
```

```
<article>  
  <section>
```

*Classic HTML*

*HTML5*

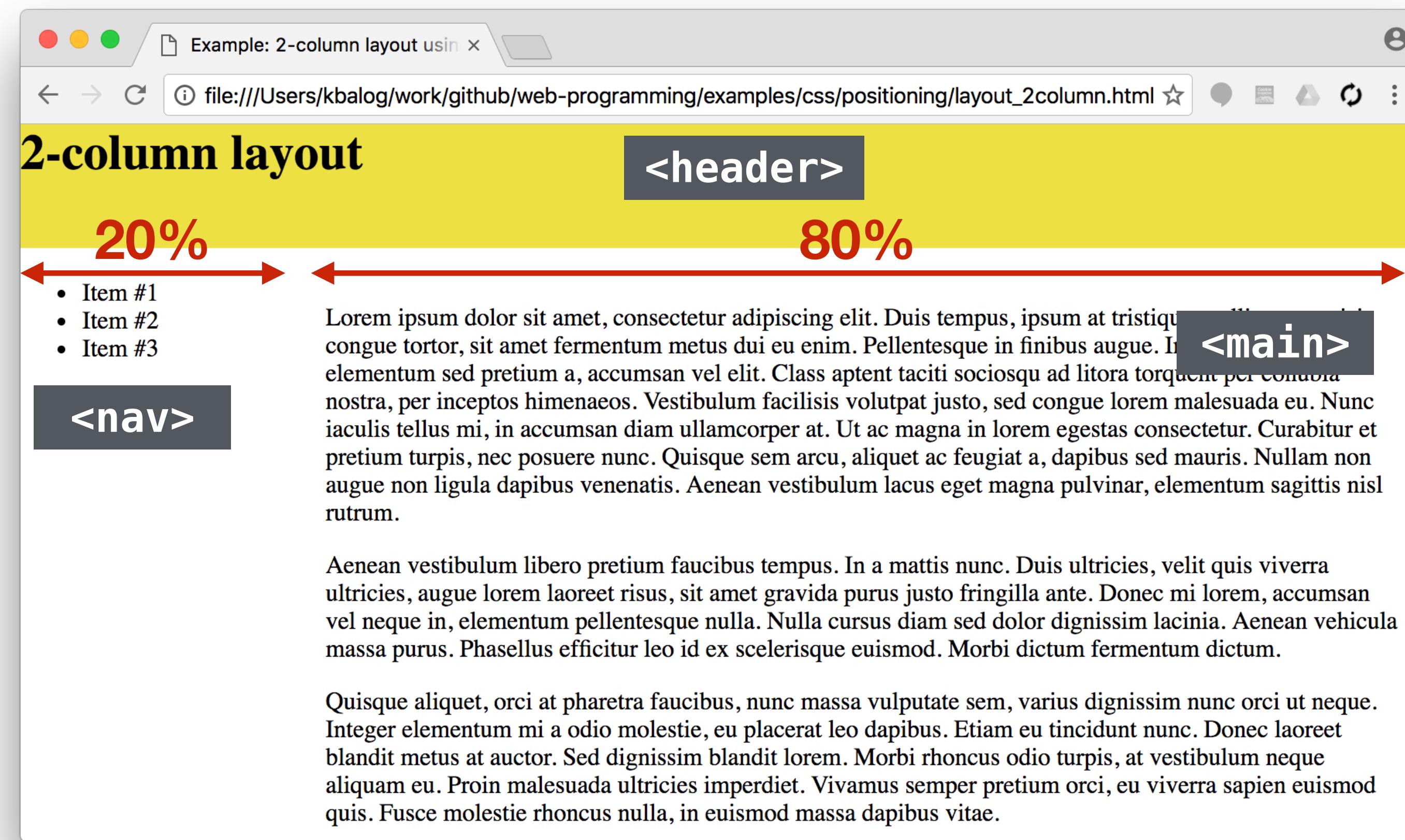
# Fixed-width vs fluid layouts

- Fixed-width layout
  - Components inside a fixed-width wrapper have either percentage or fixed widths. Typically, grid systems.
- Fluid (or liquid) layout
  - Components have percentage widths (in % or em), thus adjust to the user's screen resolution

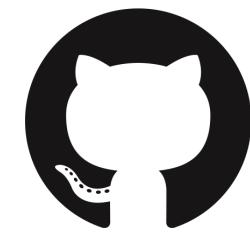


# Two-column layout

# examples/css/positioning/layout\_2column.htm



# **Exercise #6**



[github.com/dat310-2024/info/tree/master/  
exercises/css/positioning](https://github.com/dat310-2024/info/tree/master/exercises/css/positioning)

# Responsive design

- Tailoring layout specifically for the type of screen
  - E.g., three column layout for desktops, a two column layout for tablets, and a single column layout on smartphones
- Using a fluid grid and media queries in CSS

# CSS media queries

- CSS technique introduced in CSS3
- Uses the @media rule to include a block of CSS property only if a certain condition is true
  - width and height of the viewport
  - width and height of the device
  - orientation (is the tablet/phone in landscape or portrait mode?)
  - resolution
  - ...

```
@media mediatype and|not|only (media feature) {...}
```

# CSS media queries (2)

- Possible to write different CSS code for different media types
  - For example

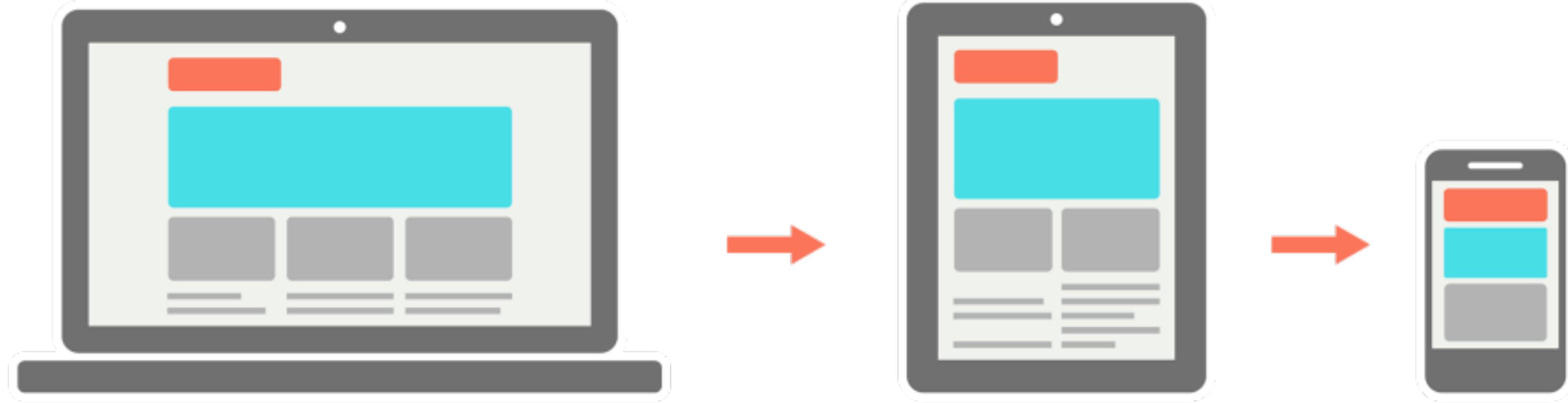
```
@media screen and (max-width: 300px) {  
    body {  
        background-color: lightblue;  
    }  
}
```

Change the background-color if the document is smaller than 300 pixels wide.

- Also possible to have different style files for different media
- See [http://www.w3schools.com/cssref/css3\\_pr\\_mediaquery.asp](http://www.w3schools.com/cssref/css3_pr_mediaquery.asp)

# Mobile first

- Both a strategy and a new way of writing code
- Designing an online experience for mobile before designing it for the desktop
- It's easier to translate a mobile design to desktop than the other way around

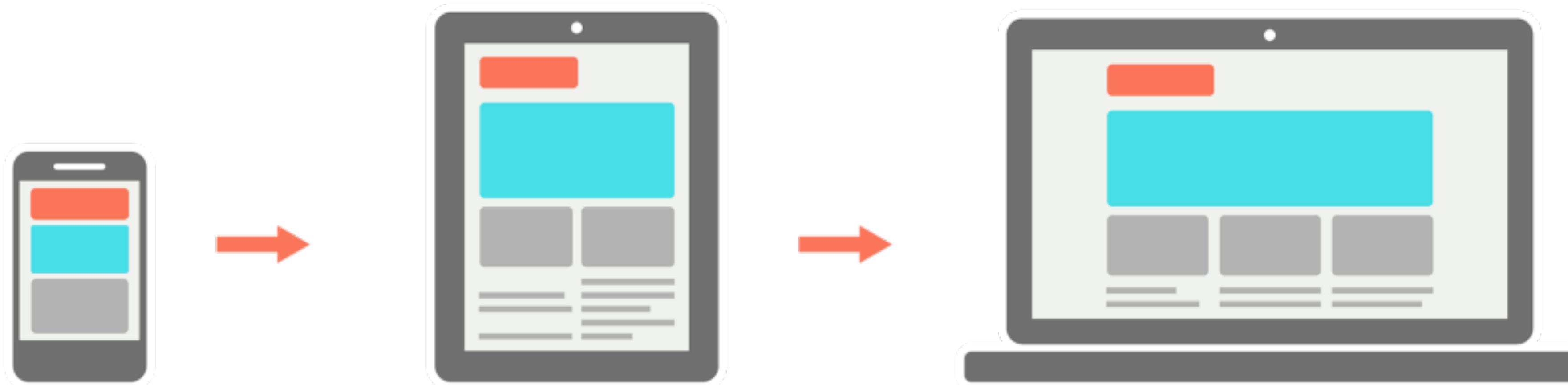


---

**Responsive Web Design**

---

**Mobile First Web Design**



# Meta viewport

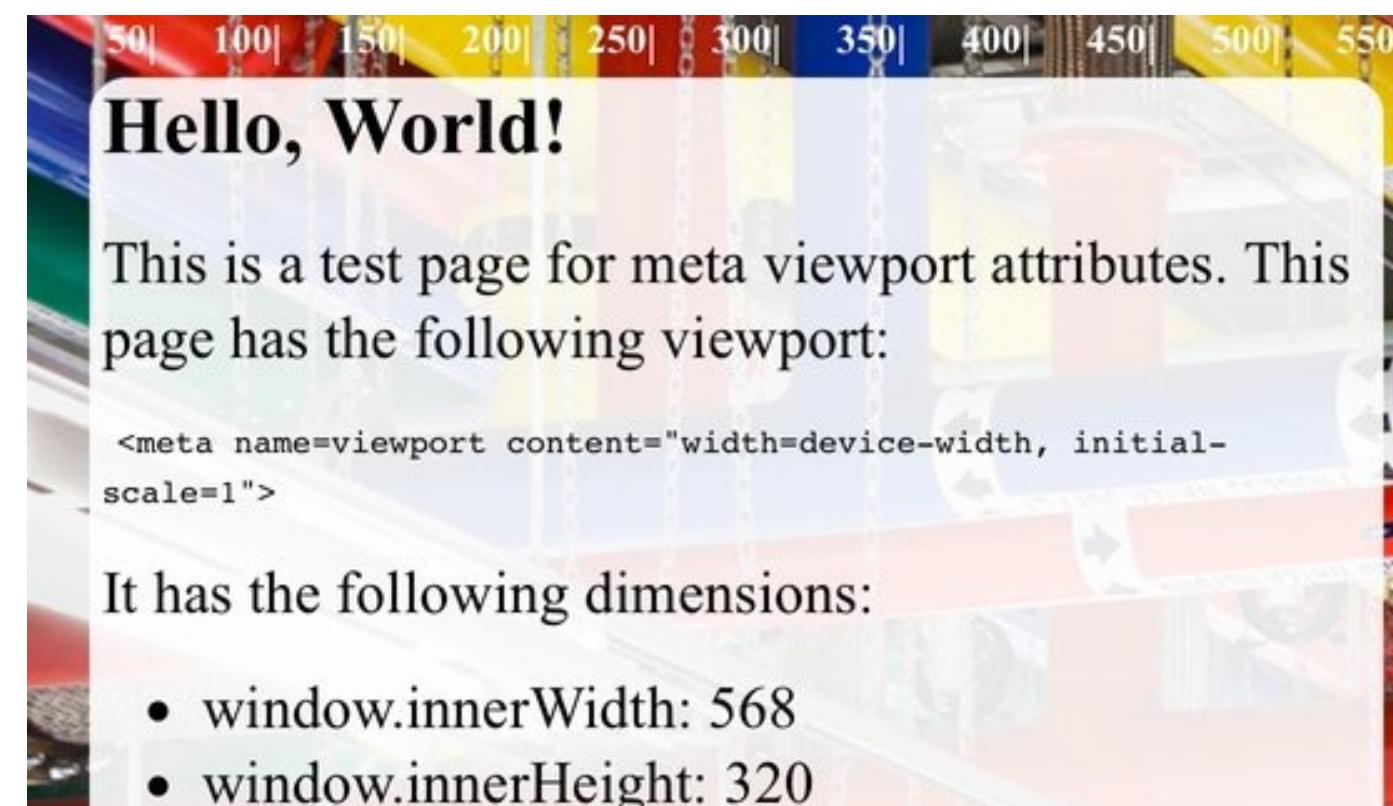
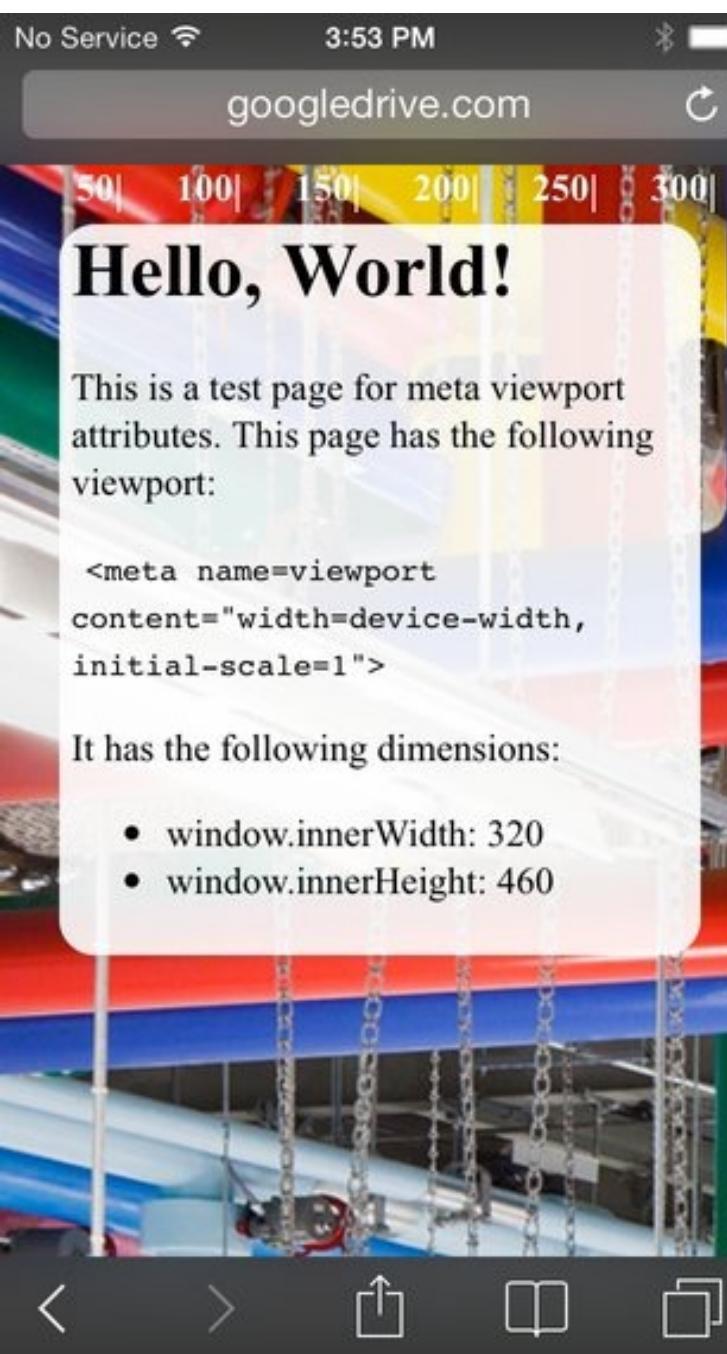
- Pages optimized to display well on mobile devices should include a meta viewport in the head of the document
- Gives the browser instructions on how to control the page's dimensions and scaling
  - Fixed-width or responsive
  - Zoom level

# Typical setting

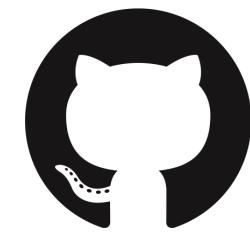
```
<meta name="viewport" content="width=device-width, initial-scale=1">
```

width of the page follows the screen-width of the device

initial zoom level when the page is first loaded by the browser



# **Exercise #7**



[github.com/dat310-2024/info/tree/master/  
exercises/css/positioning](https://github.com/dat310-2024/info/tree/master/exercises/css/positioning)

# References

- Centering in CSS
  - <https://css-tricks.com/centering-css-complete-guide/>
- Floats
  - <https://css-tricks.com/all-about-floats/>
- Positioning tutorials
  - <http://alistapart.com/article/css-positioning-101>
  - <http://learn.shayhowe.com/advanced-html-css/detailed-css-positioning/>