



Lesson - 5

CSS:

Z-index. Floating.

Vertical and Horizontal alignments.

Table, block, flexbox layouts.

План занятия



- 1. Note about EM unit measurement.**
- 2. Homework question about unit measurements and positioning**
- 3. Z-index.**
- 4. Floats.**
- 5. Flexbox.**
- 6. Vertical and horizontal alignment:**
- 7. Table and block layout:**

Z-index

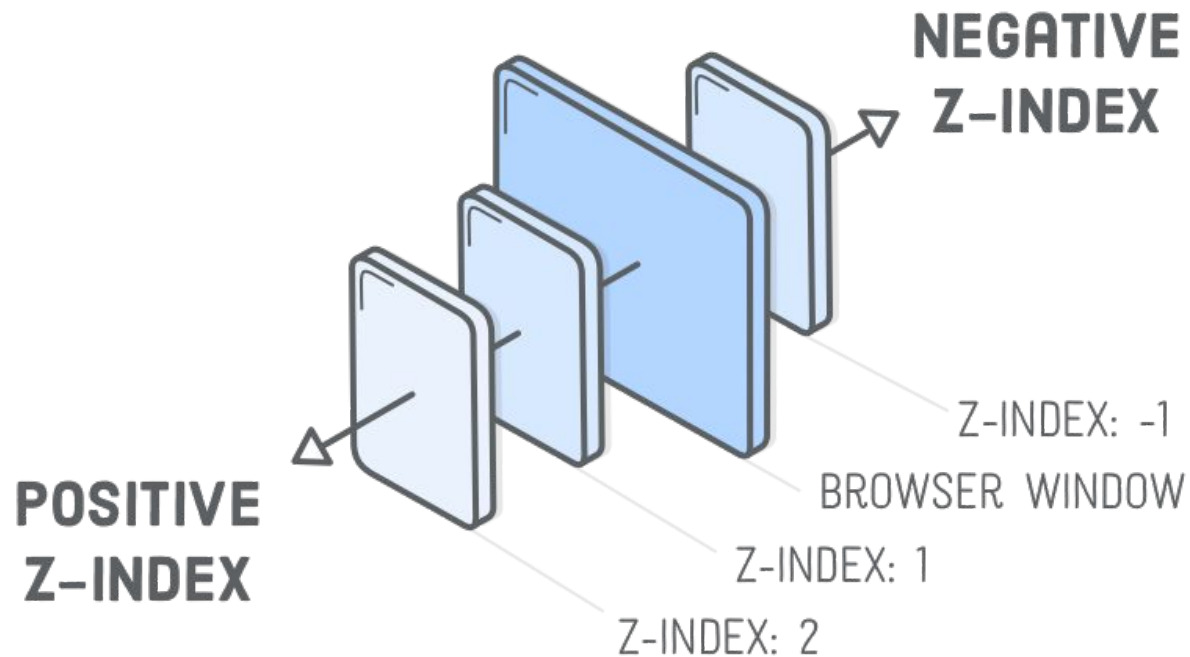
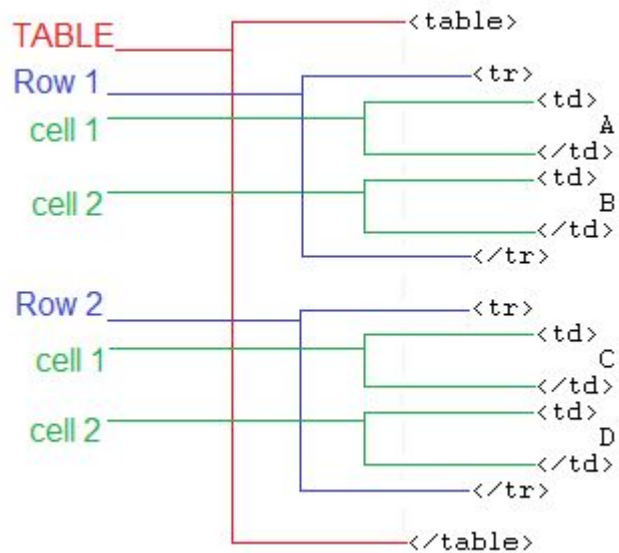


Table layout

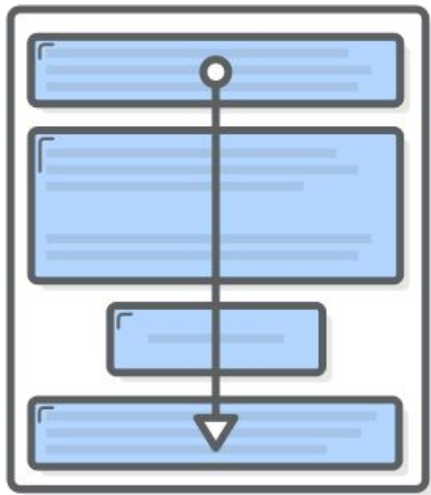
	Col 1	Col 2	Col 3	Col 4	Col 5
Row 1	Header				
Row 2	Left Index	text		pic	pic
Row3		pic	text		
Row 4		text			

Table layout

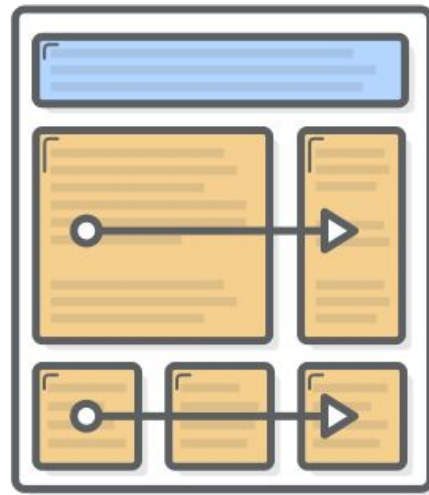


```
<table>
  <tr>
    <th>A</th>
    <th>B</th>
  </tr>
  <tr>
    <td>C</td>
    <td>D</td>
  </tr>
</table>
```

Floating

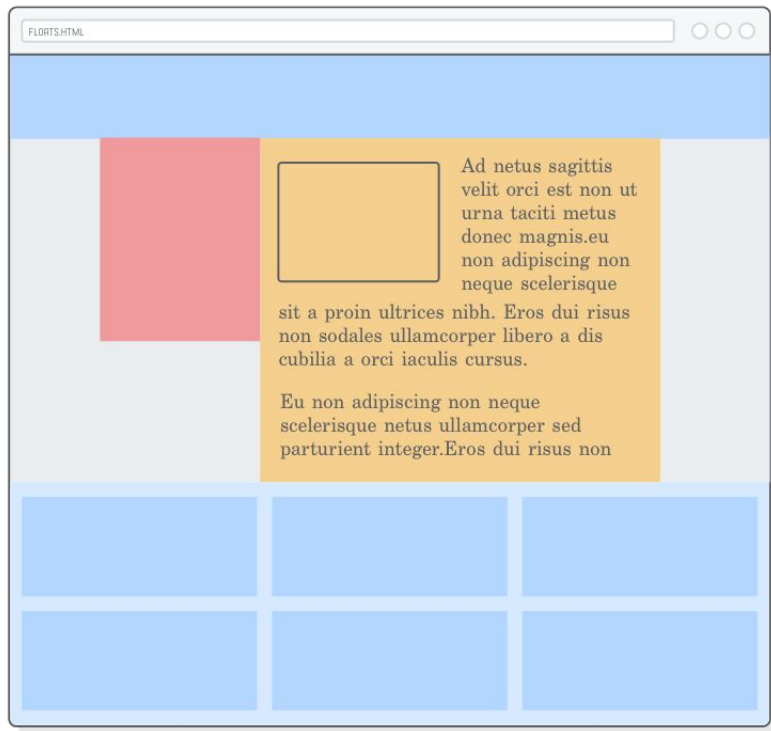


VERTICAL FLOW



HORIZONTAL FLOW

Floating practice



Flexbox



ALIGNMENT



DIRECTION

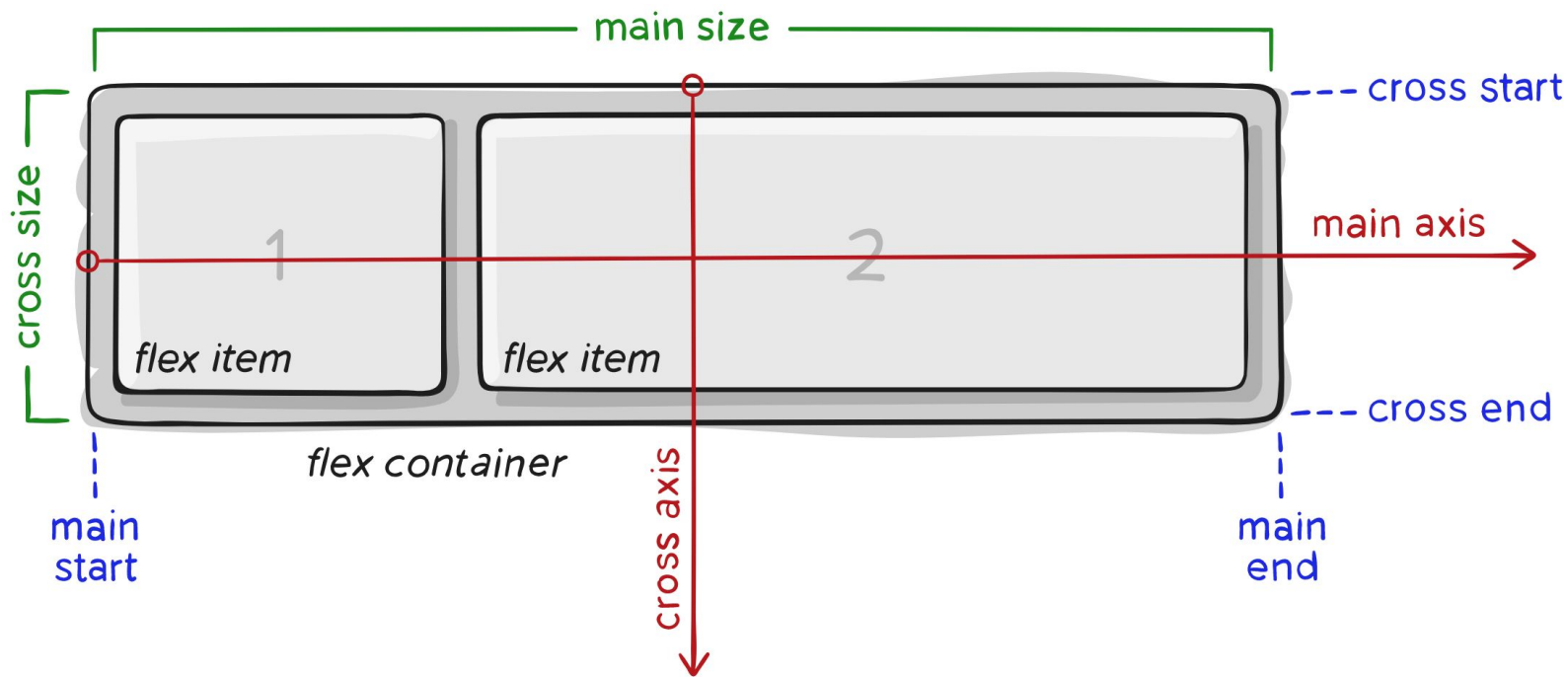


ORDER



SIZE

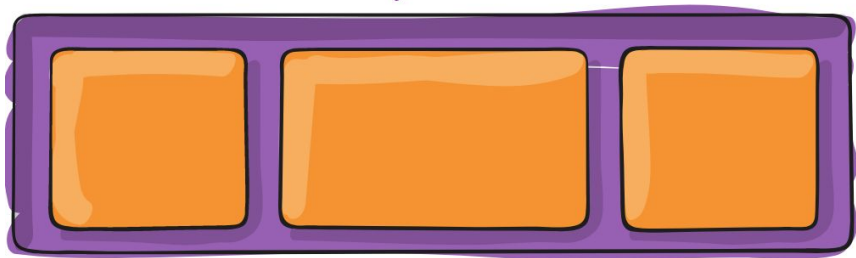
Flexbox terminology



Flexbox container/item

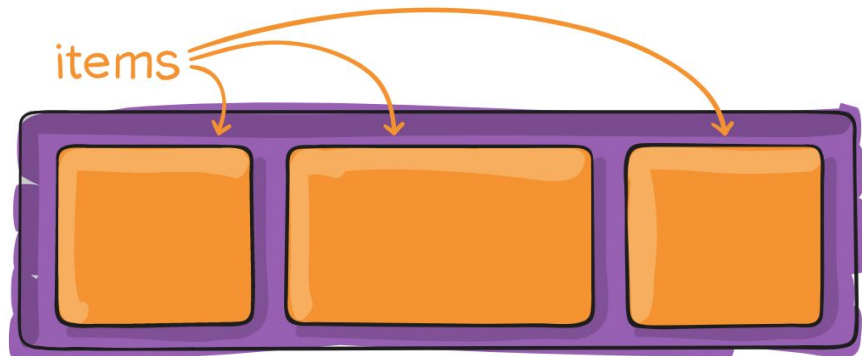


container



**Properties for the Parent
(flex container)**

items



**Properties for the Children
(flex items)**

Table vs Block vs Flexbox



FLOATS
(MAGAZINE-STYLE LAYOUTS)



FLEXBOX
(OVERALL PAGE STRUCTURE)

Layout	Advantages	Disadvantages
Table	Browser support easy to implement simple cases	Is not semantic No Cache for repeating items Small part can be handled in CSS
Block	Caching Semantic Simple way to horizontally position our boxes	No control over alignment, direction, order or size
Flexbox	Caching Semantic flexbox gives us <i>complete</i> control over the alignment, direction, order, and size of our boxes	Support
Grid (*)	-	-

Horizontal alignment

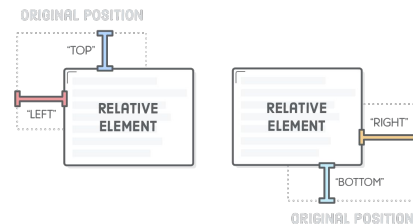
- Horizontal alignment of element using floats and margin



- Horizontal alignment of text



- Horizontal alignment of items using position



Vertical alignment



- Center Vertically - Using padding
- Center Vertically - Using line-height
- Center Vertically - Using position & transform

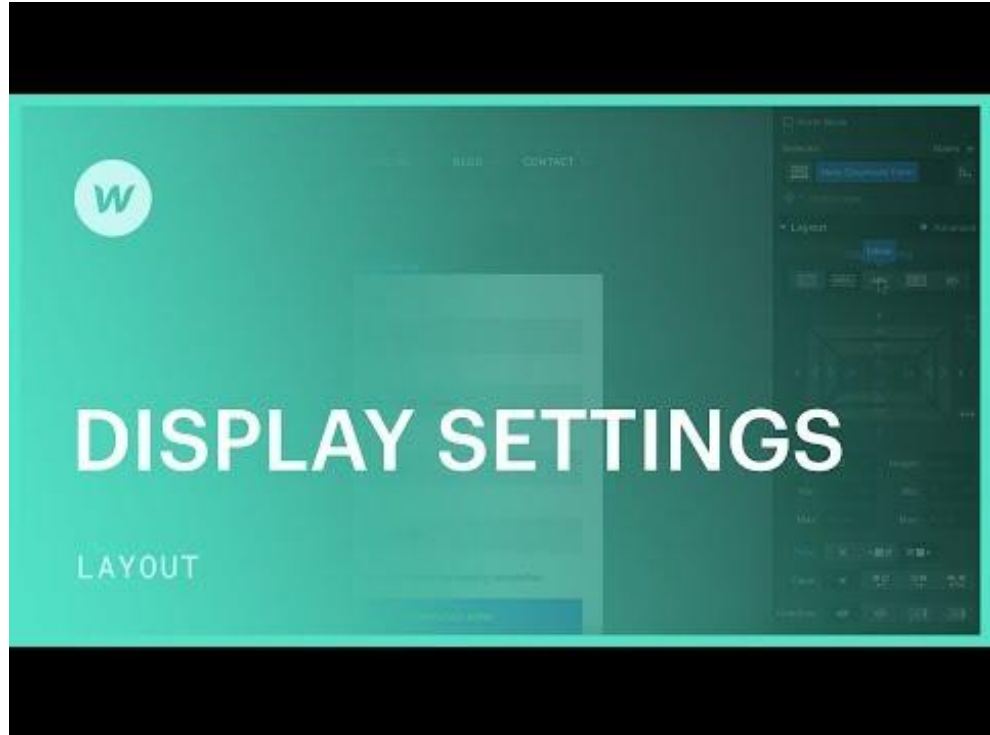
References



1. Z-index: <https://css-tricks.com/almanac/properties/z/z-index/>
2. Floating:
 - a. <https://css-tricks.com/all-about-floats/>
 - b. <https://internetingishard.com/html-and-css/floats/>
 - c. Videos: <https://www.youtube.com/watch?v=8gEbTqhzRXI>
 - d. Video: <https://www.youtube.com/watch?v=GiuloMzpwY>
3. Flexbox:
 - a. <https://css-tricks.com/snippets/css/a-guide-to-flexbox/>
 - b. <https://internetingishard.com/html-and-css/flexbox/>
4. Vertical and horizontal alignment:
 - a. https://www.w3schools.com/css/css_align.asp
 - b. <https://www.paulirish.com/2012/why-moving-elements-with-translate-is-better-than-posabs-topleft/>

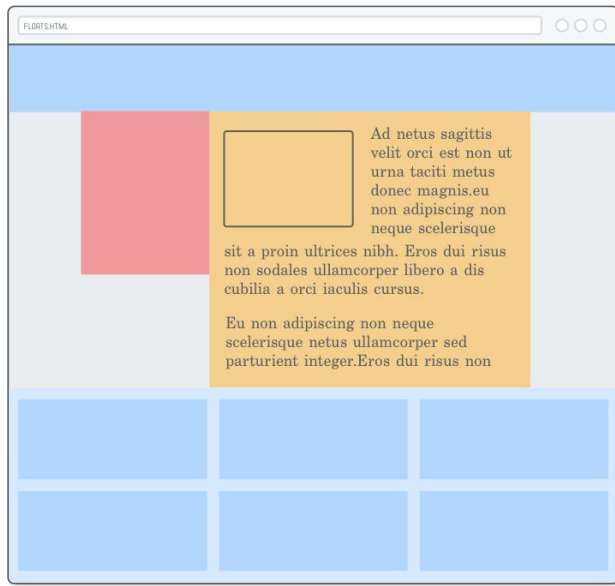
Home work - theoretical part

1. Посмотреть видео:



Home work - required practical part

1. Создать репозиторий и выполнить в нем пошаговый пример из <https://internetingishard.com/html-and-css/floats/> , где content image будет ваша фотография



Home work - advanced practical part

1. Создать репозиторий и выполнить в нем данную разметку используя табличную или flexbox разметки:

1	2	5	6	7
		8	9	10
3	4	11	12	13