

# Decorative Styling

Lesson 9



# Lesson Plan

1

What is included in decorative styling and why we need it.

2

Pseudo-elements vs Pseudo-classes.

3

Shadows and Filters.

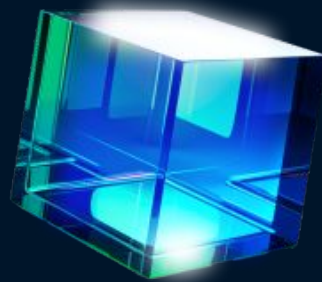
4

How to define shape – mask, clip-path, shape-outside.

# Pseudo-classes

Help style specific attributes or states that are not reflected in the DOM.

- **User-action** pseudo-classes
- **The lang** pseudo-class
- **The negation** pseudo-class
- **Structural** pseudo-classes
- **User interface** pseudo-class selectors



# Link Pseudo-classes for `<a>`

`:link` – styles unvisited links

`:visited` – styles visited links

```
a:link { color: blue; }
```

```
a:visited { color: purple; }
```



# User-action pseudo-classes

**:active** – element is being clicked

**:focus** – element is in focus

**:hover** – mouse is hovering over the element

**a, button, input**

# The lang pseudo-class

Applied to elements with the `lang` attribute

```
p:lang(fr) { font-style: italic; }
```

```
<p lang="fr">  
  Adieu
```

```
</p>
```

```
<p lang="jw">  
  Sugeng rawuh
```

```
</p>
```

# The **negation** pseudo-class

Styles are applied to all elements except those matching the selector

`:not(p) { }` – all elements except paragraphs tags

`:not(.intro) { }` – all elements except those with class `.intro`

`:not(#news) { }` – all elements except those with id `#news`

`:not(:lang(fr)) { }` – all elements except those with the French language

`:not([disabled]) { }` – all elements except those without the `disabled` attribute

`p:not(.intro) { }` – all paragraphs except those with the class `.intro`

# Structural pseudo-classes

Allow you to select elements based on their position in the document structure.

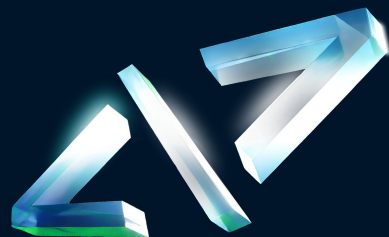
! If the document structure changes, the structural pseudo-class might apply to a different element or potentially to no element at all.

It can sometimes be difficult to determine exactly which element the styles will be applied to.

```
:first-child { }
```

```
:only-child { }
```

```
:nth-child(3n) { }
```





# :first-child

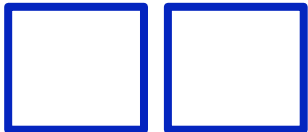
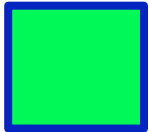
# :last-child

– Selects the element that is the **first/last child** of another element.

```
article:first-child { }  
article:last-child { }
```

```
<section>  
  <article> 1 </article>  
  <article> 2 </article>  
  <article> 3 </article>  
  <article> 4 </article>  
</section>
```





pseudo-class

## :only-child

– Selects an element that is the **only child** of another element.

```
div:only-child { }
```

```
<article>  
  <div> 1 </div>  
</article>
```

pseudo-class

## :only-of-type

– Selects an element that is the **only** element of its **type** within its parent.

```
p:only-of-type { }
```

```
<article>  
  <div> 1 </div>  
  <p> 1 </p>  
  <div> 1 </div>  
</article>
```

# :first-of-type

# :last-of-type

- Selects an element that is the **first/last** of its **type** within its parent element.

```
p:first-of-type { }  
p:last-of-type { }
```

```
<section>  
  <article> 1 </article>  
  <p> 2 </p>  
  <p> 3 </p>  
  <article> 4 </article>  
</section>
```



# `:nth-child(n)`

# `:nth-last-child(n)`

– Selects **specific child elements** in a parent element starting from the beginning or the end.

**n:**

- **number**
- **number + n** (selects every **n-th** element)
- expression with **+/-** (allows starting from an element other than the first)
- **even** (all even elements)
- **odd** (all odd elements)

`:nth-child(odd)`      `:nth-child(n+1)`

`:nth-child(even)`      `:nth-child(2)`

`:nth-child(2n-1)`   `:nth-last-child(2)`

`:nth-child(2n)`      `:nth-child(n+1)`

# :nth-of-type(**n**)

# :nth-last-of-type(**n**)

– Selects elements of a **specific type in the parent** element starting from the beginning or the end.

**n:**

- **number**
- **number + n** (selects every **n-th** element)
- expression with **+/-** (allows starting from an element other than the first)
- **even** (all even elements)
- **odd** (all odd elements)

:nth-of-type(odd) :nth-of-type(n+1)

:nth-of-type(even) :nth-of-type(2)

:nth-of-type(2n-1) :nth-last-of-type(2)

:nth-of-type(2n) :nth-of-type(n+1)



## `:root`

- Selects the `root` element of the document (tag `<html>`).

## `:empty`

- Selects an element that has `no content` or child elements (an empty element).

A `space` is already a character, so the tag is no longer considered empty.

It also applies to `input` elements where no value has been entered.

```
:root { }
```

```
<html>
```

```
  <head> 1 </head>
```

```
  <body> 1 </body>
```

```
</html>
```

```
p:empty { }
```

```
<article>
```

```
  <p> 1 </p>
```

```
  <p> </p>
```

```
  <p></p>
```

```
  <p><span></span></p>
```

```
</article>
```

# Pseudo-elements

– (fake elements) Allow styling elements that are not in the document tree.

`::-webkit-scrollbar` – styles the scrollbar

+ Other pseudo-elements of the form `::-webkit-scrollbar-*`, are used only with prefixes and only in **webkit** browsers

```
.invisible-scrollbar::-webkit-scrollbar {  
  display: none;  
}
```





# Pseudo-elements **for text**

**::first-line** – styles the first line of text

**::first-letter** – styles the first letter of text

```
p::first-line { }  
p:first-letter { }  
<p>  
  This is the first line  
  of a paragraph of text  
</p>
```

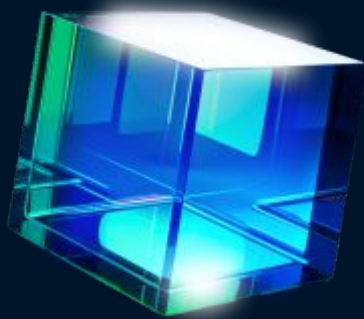


# Pseudo-elements for Lists

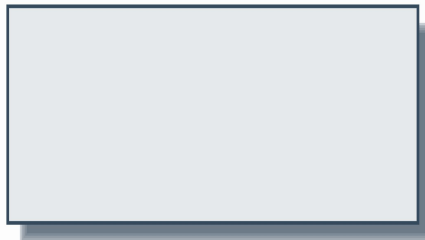
- Usage of counters in lists
- Styling list markers

`::marker` – Styling list markers.

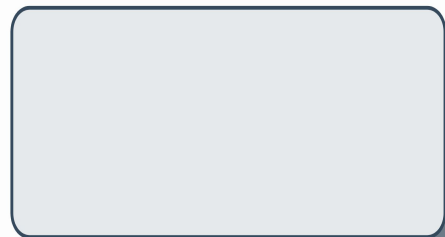
```
ol {  
    counter-reset: section;  
}  
li::before {  
    counter-increment: section;  
    content: counter(section);  
}  
li::marker { }
```



# BOX-SHADOW



```
p { box-shadow: red 5px 8px 15px 18px inset; }
```

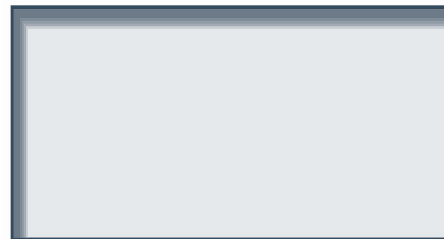


## External shadows

- Placed outside the border
- Mimics the shape of the block, including rounded corners, etc.

## Internal shadows (inset)

- Placed above background-images, background-color
- but below content



# Syntax box-shadow

```
p { box-shadow: inset 5px 8px 15px 18px red; }
```

**offset-x**, **offset-y**, **blur-radius**, **spread-radius** – order matters

## **inset**

internal shadow

optional

order does not matter

## **offset-x**

horizontal offset

positive = right,  
negative = left,  
0 = no offset

## **offset-y**

vertical offset

positive = down,  
negative = up,  
0 = no offset

## **blur-radius**

optional,  
default is 0 which means sharp edges,  
values only greater than 0

## **spread-radius**

optional,  
default is 0,  
increases or decreases the size of the  
shadow

## **color**

optional,  
if not specified, it inherits the element's  
color  
order does not matter

```
p { box-shadow: inset offset-x, offset-y, blur-radius, spread-radius color; }
```

examples

# box-shadow

Text

**inset**

**0px -5px**

**5px 5px 0px**

**-5px 0**

**0px 5px**

**5px 5px 5px**

**5px 0**

**5px 5px 5px 5px**

**5px 5px 5px -5px**

# Multiple box-shadow



can be applied to a single element by separating each shadow with a comma:

```
p { box-shadow: inset 10px 10px 10px 10px red,  
               red 10px 10px 10px 10px inset,  
               10px 10px 10px 10px red,  
               10px 10px 10px 10px,  
               10px 10px 10px,  
               10px 10px; }
```

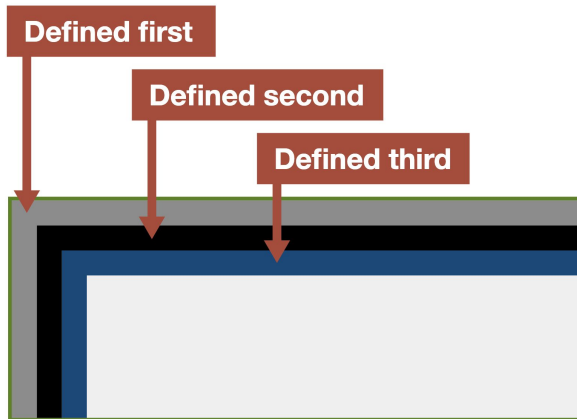
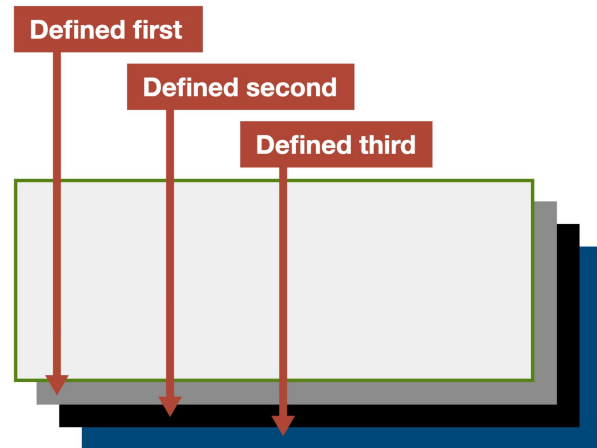
```
/* all possible values specified */  
/* different order */  
/* no inset specified */  
/* no color specified */  
/* no spread-radius specified */  
/* no blur-radius specified */
```

# order in box-shadow

The order of the shadows matters

```
p { box-shadow: first, second, third; }
```

the first shadow in the list will be on top, and subsequent shadows will be layered below it.



# TEXT-SHADOW

- Only external shadows.
- Follows the shape of the text.
- Multiple shadows can be applied.
- Syntax is similar to **box-shadow**:

**offset-x**

**offset-y**

**blur-radius**

**color**

```
p {  
  text-shadow: 2px 2px 8px #FF0000;  
}
```

Text

HELLO

FIELDING

FUNKY  
FRESH

ELEGANT  
SHADOW

SHADOWS



# filter



- Applies visual effects to elements  
(like in instagram)

## Values:

- **Keyword** – blur
- **url** – url("filters.svg#filter-id")

```
filter: blur(5px);  
filter: contrast(175%) brightness(3%);
```

# filter

**blur(px)**

**brightness(0-1)**

**contrast(%)**

**drop-shadow(x y blur color)** – inner shadow

**grayscale(%)** – black and white

**hue-rotate(deg)** – shifts the color palette around the color wheel

**invert(%)**

**opacity(%)**

**saturate(%)**

**sepia(%)** – like vintage photo



No Filter Applied



filter: blur(2px);



filter: brightness(0.4);



filter: contrast(200%);



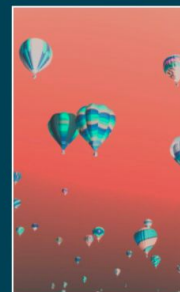
filter: drop-shadow(16px red);



filter: grayscale(80%);



filter: hue-rotate(90deg);



filter: invert(85%);



filter: opacity(15%);

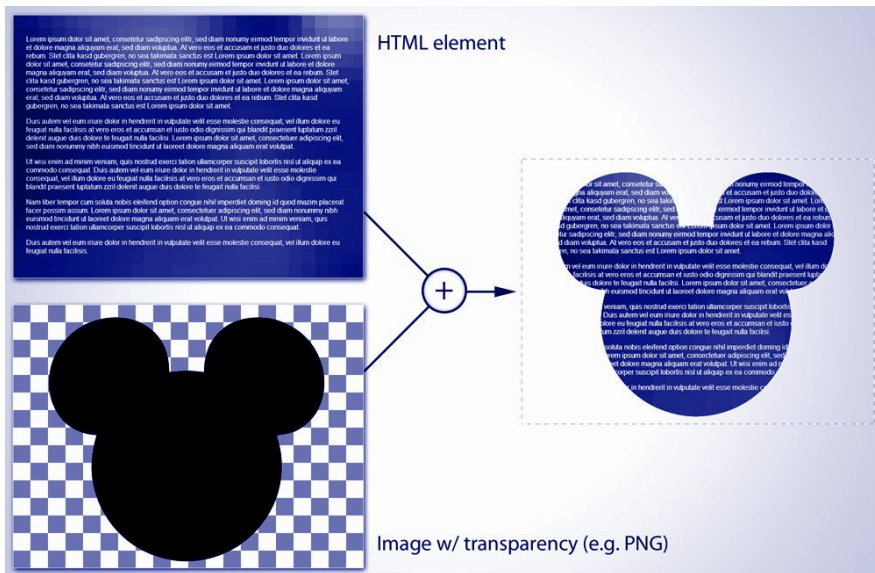


filter: saturate(400%);



filter: sepia(560%);

# CSS mask



Imagine cutting out a circle in a sheet of paper and placing it over a picture; you've applied a mask.

Used to create complex shapes for elements.

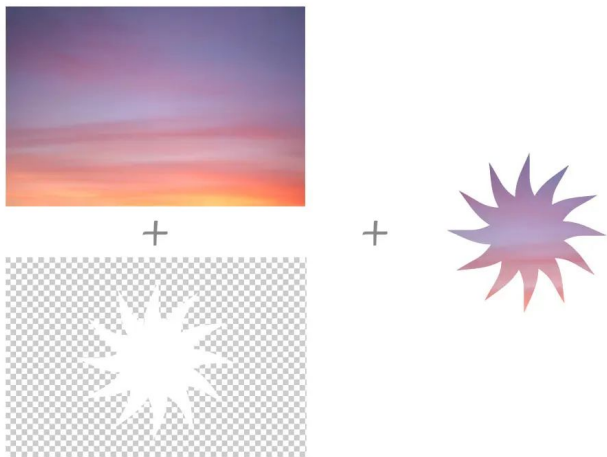
Masks operate based on the alpha channel:

- **Black** – full invisibility
- **White** – full visibility
- **Gray** – partial transparency

# CSS mask

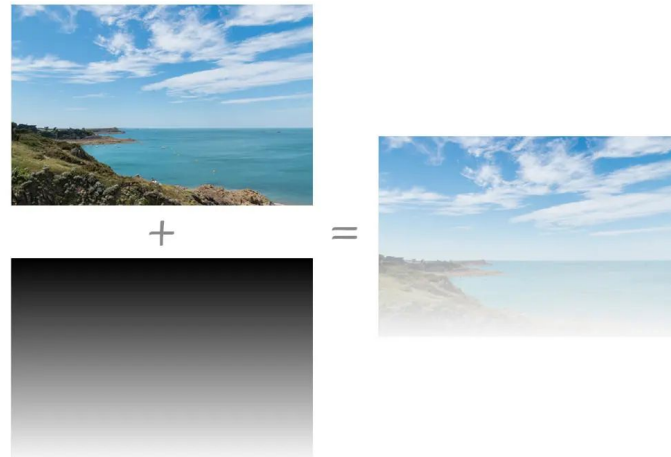
## Image:

`mask: url(mask.png);`



## Gradient:

`mask: linear-gradient(from, to);`



# CSS **mask** properties

**mask-image** – the image used as the mask

**mask-mode** – chooses the mask based on transparent or opaque areas

**mask-position** – mask position relative to the element

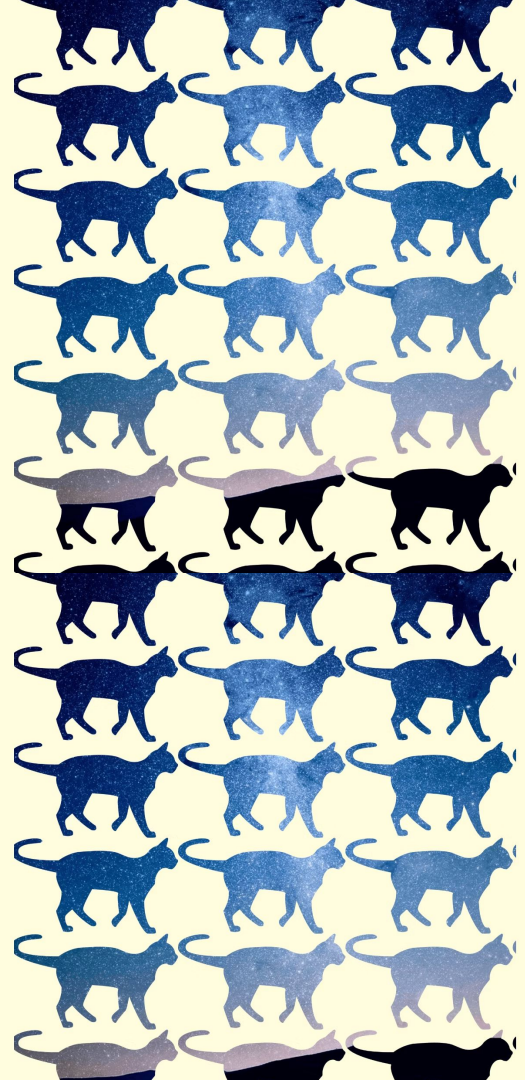
**mask-size**

**mask-repeat** – whether the mask repeats

**mask-origin** – defines the starting point of the mask  
– **border**, **padding**, **content**

**mask-clip** – the area to which the mask is applied

**mask-composite** – allows combining mask layers



# CSS clip-path



Element



Clipping path

=



Clipped element

- Defines the area to show or hide

- Consists of shapes or coordinates

Generator clip-path – [Clippy](#)

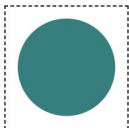
# CSS clip-path shapes



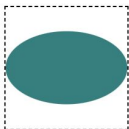
clip-path: `inset(width height);`



clip-path: `inset(width height round border-radius);`



clip-path: `circle(radius at x, y);`



clip-path: `ellipse(radius-x, radius-y at x, y);`



clip-path: `polygon(vertex, vertex ...);`

**inset** – rectangle

**circle**

**ellipse**

**polygon** – any shape with any number of corners

**path** – SVG path with coordinates

**clip-path:** `path("M0.5,1 C0.5 ... ")`

# MASK VS CLIP-PATH

Raster	Vector
Partial Transparency	Opacity Only
Pre-drawn Images	Custom Shapes
More Complex Settings (mask-* properties)	Limits Element Shape (no additional properties)
Static Shape	Animatable Shape Changes
Text Wraps Shape Perimeter	Text Wraps Around Original Rectangle



# shape-outside

## Text Wrapping Around a Shape.

### Shapes:

- **circle()** – Creates a circular shape for the text to wrap around.
- **ellipse()**
- **inset()** – Defines a rectangular area.
- **polygon()** – Creates any shape with three or more corners.
- **url()** – Uses an image as the shape for text wrapping.

Applied to an element that the text should wrap around.



# shape-outside

**clip-path: circle(70% at 0% 50%)**



**shape-outside: circle(70% at 0% 50%)**

**+**

**float: left/right**

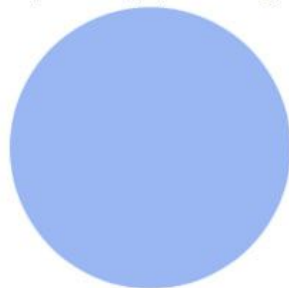
**+**

**margin-left/right**

vulputate magna eros eu erat. Aliquam erat volutpat. Nam dui  
mi, tincidunt quis, accumsan porttitor, facilisis luctus, metus  
Pellentesque habitant morbi  
tristique senectus et netus et  
malesuada fames ac turpis  
egestas. Vestibulum tortor  
quam, feugiat vitae, ultricies  
eget, tempor sit amet, ante.  
Donec eu libero sit amet quam  
egestas semper. Aenean  
ultricies mi vitae est. Mauris placerat eleifend leo. Quisque sit  
amet est et sapien ullamcorper pharetra. Vestibulum erat wisi,  
condimentum sed, commodo vitae, ornare sit amet, wisi.  
Aenean fermentum, elit eget tincidunt condimentum, eros

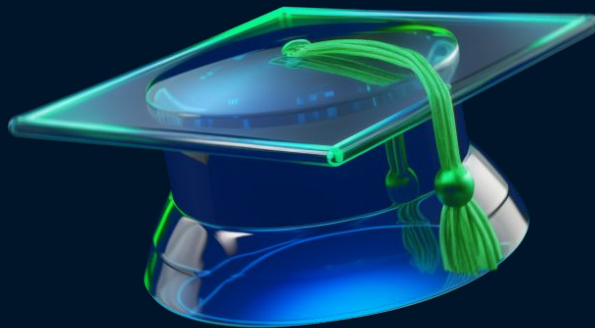


mi, tincidunt quis, accumsan porttitor, iaculis luctus,  
Pellentesque habitant  
tristique senectus et ne  
malesuada fames ac tu  
egestas. Vestibulum to  
quam, feugiat vitae, ul  
eget, tempor sit amet,  
Donec eu libero sit am  
egestas semper. Aenea  
ultricies mi vitae est. Mauris placerat eleifend leo. Quis  
amet est et sapien ullamcorper pharetra. Vestibulum ei  
condimentum sed, commodo vitae, ornare sit amet, wi:  
Aenean fermentum, elit eget tincidunt condimentum, e



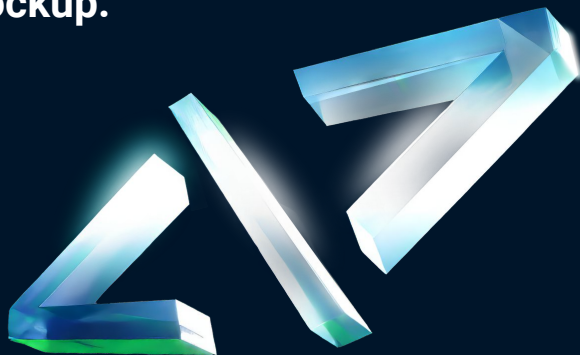
# Summary

1. Pseudo-elements
2. Pseudo-classes
3. Shadows
4. Filters
5. Masks



# Homework

1. Complete one of the following courses to reinforce your understanding of the theory
2. Achieve the highest level of accuracy with the design mockup:
  - Apply all states for links and buttons:  
**hover, active, focus**, according to the **UI kit**
  - Apply visual effects such as  
**shadows, shapes, filters and etc**
  - Use **pseudo-elements** where necessary
  - Set all internal and external margins and padding



Your website should look exactly like the design mockup.

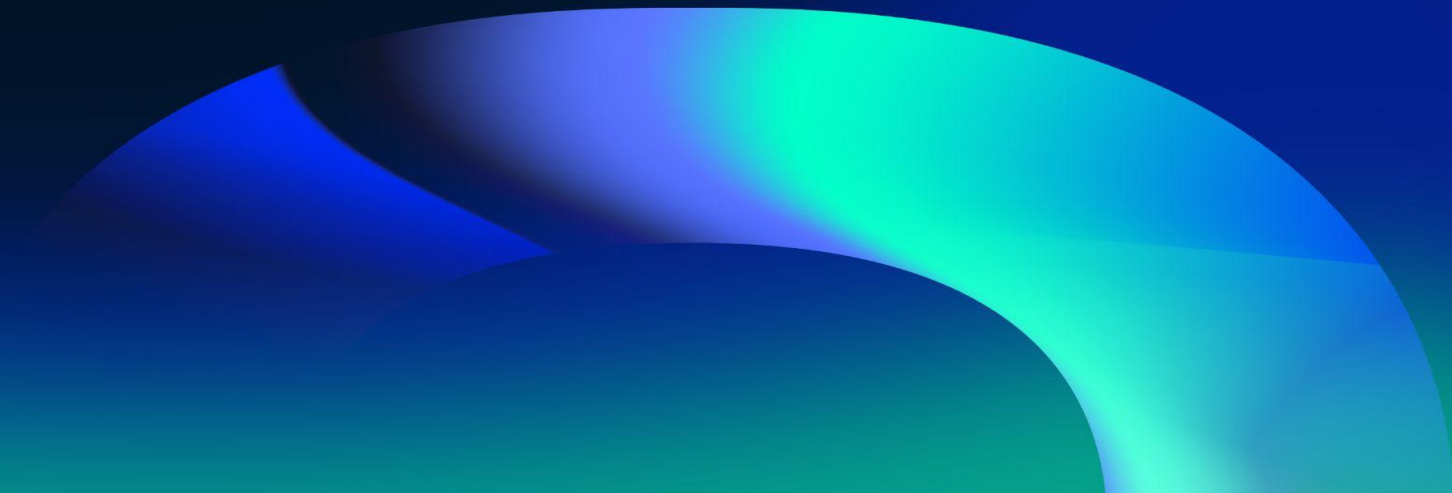
This is the final stage of work on the website. Next, we will only be adding animations.

**B** Academy  
**RO**



**QUESTIONS?**

**Please fill out the feedback form**  
**It's very important for us**





**THANK YOU!**

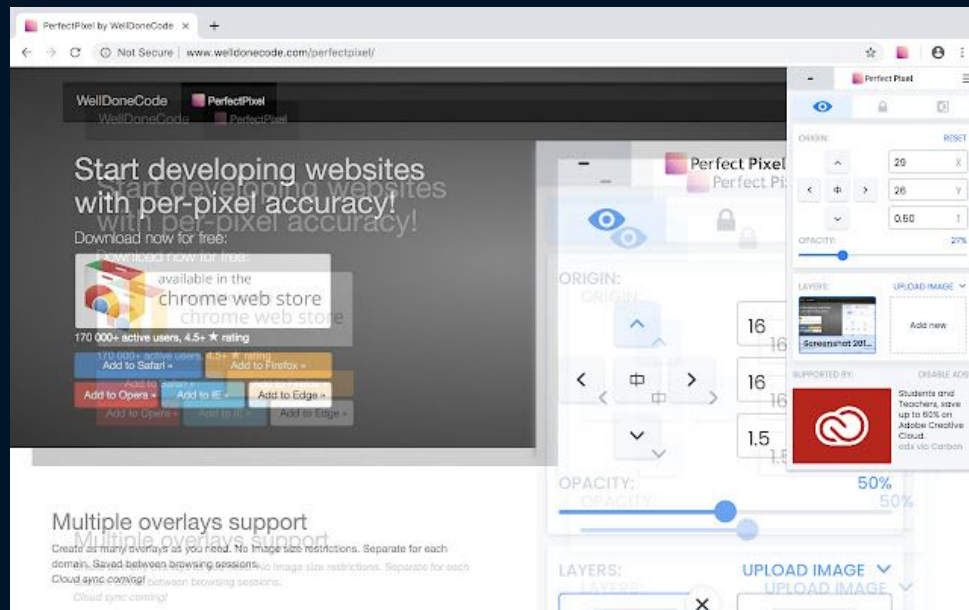
**Have a good evening!**



# Perfect Pixel

– соответствие верстки макету пиксель в пиксель

- Стандарт индустрии
- Иногда допускаются отклонения до 5px
- Проверяется с помощью специального плагина в браузере





# Переполнение контентом

– сайт после верстки может меняться

- Больше/меньше текста
- изменение порядка элементов
- удаление/добавление новых элементов
- картинки могут поменяться
- ввод данных в форму

