

Lesson 15



# Lesson Plan

1

Shadows

2

Filters

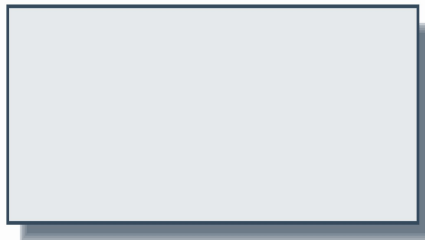
3

Masking & clipping

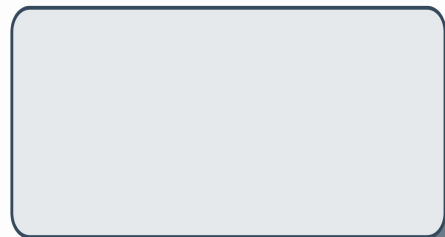
# Shadows



# BOX-SHADOW



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

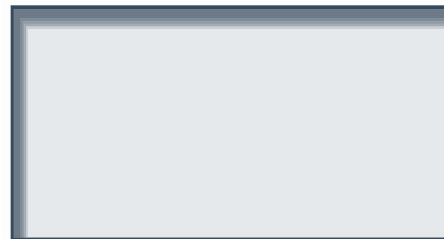


## External shadows

- 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**

# 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

# Multiple box/text-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 */
```

**example →**

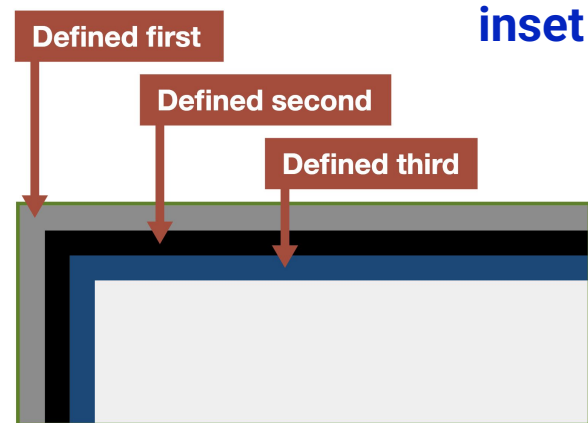
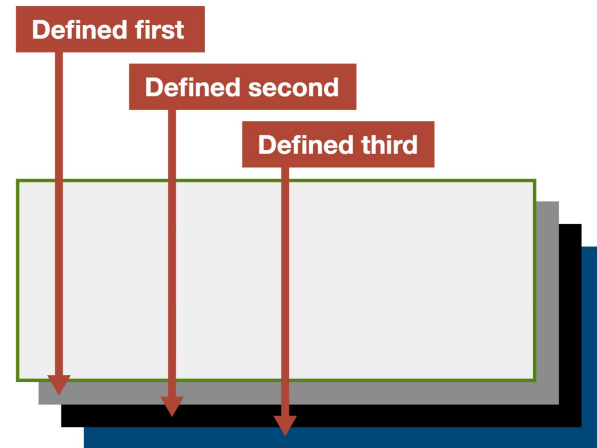


# order in box/text-shadow

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.



# Filters



# filter



– Applies visual effects to elements  
(like in instagram)

## Values:

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

```
filter: blur(5px);
```

# filter

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



# color filters

**`brightness(0-1)`**

**`contrast(%)`**

**`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%);



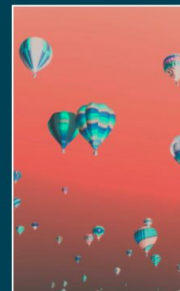
filter: drop-shadow(16px red);



filter: grayscale(80%);



filter: hue-rotate(90deg);



filter: invert(85%);



filter: opacity(15%);



filter: saturate(400%);



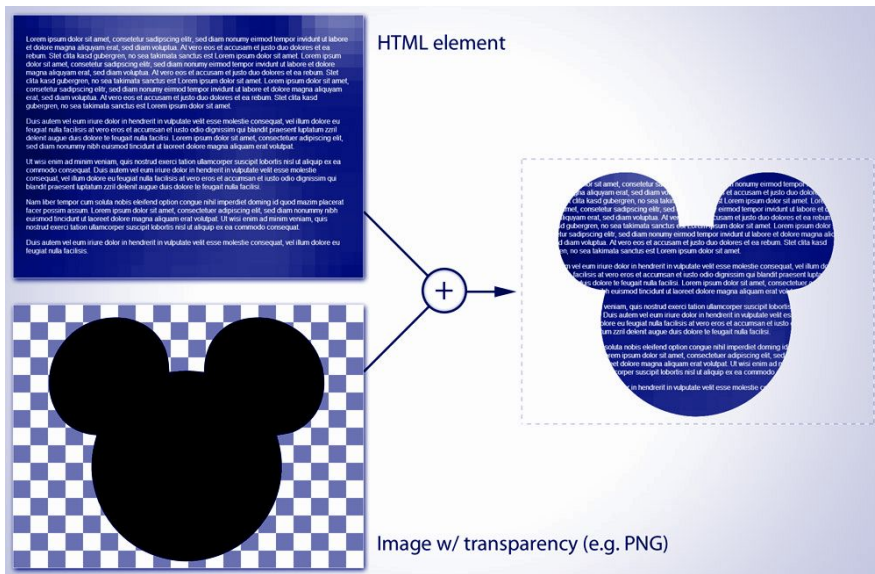
filter: sepia(560%);

**example** →

# Masking & clipping



# 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.

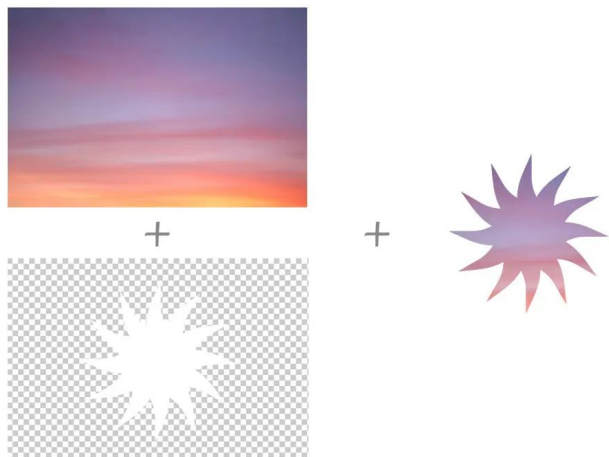
Masks operate based on the alpha channel:

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

# CSS mask

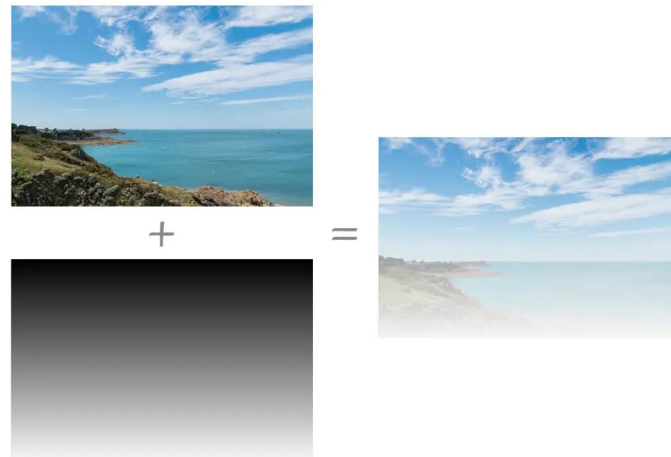
## Image:

`mask: url(mask.png);`



## Gradient:

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



[example](#) →



# 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

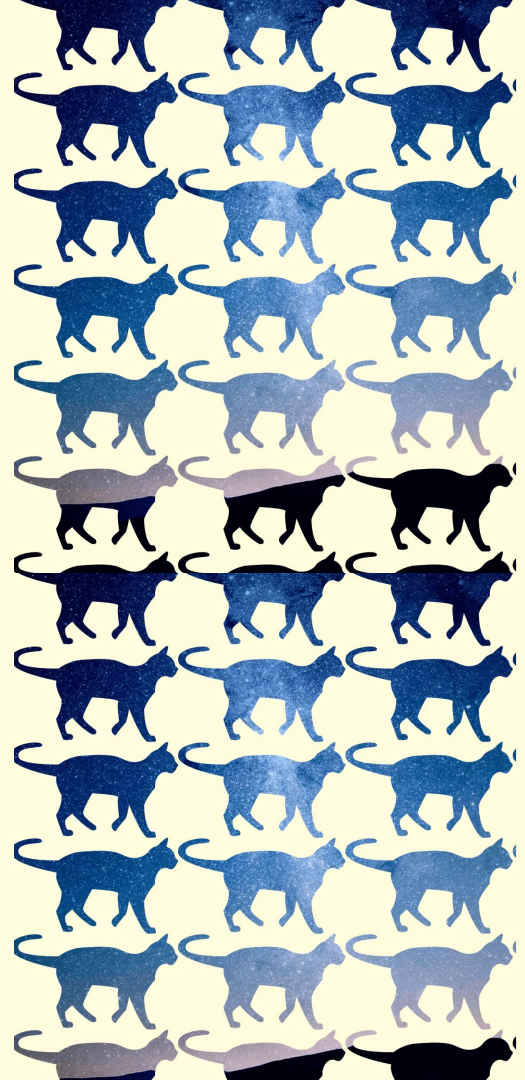
**mask-size**

**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

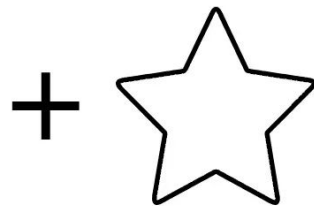
**mask-composite** – allows combining mask layers



# CSS clip-path



Element



Clipping path

=



Clipped element

- Defines the area to show or hide

- Consists of shapes or coordinates

Generator clip-path – [Clippy](#)

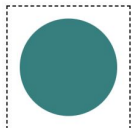
## CSS clip-path shapes



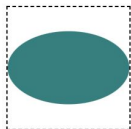
clip-path: inset(width height);



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

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

# 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%)`



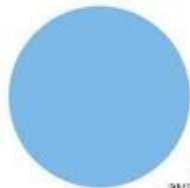
`shape-outside: circle(70% at 0% 50%)`

+

`float: left/right`

+

`margin-left/right`



**Circle with text outside using shape property**

CSS Shapes allow us to define geometric shapes that text can flow around. These shapes can be circles, ellipses, simple or complex polygons, and even images and gradients. A few practical design applications of Shapes might be displaying circular text around a circular avatar, displaying text over the simple part of a full-width background image, and displaying text flowing around drop caps in an article.

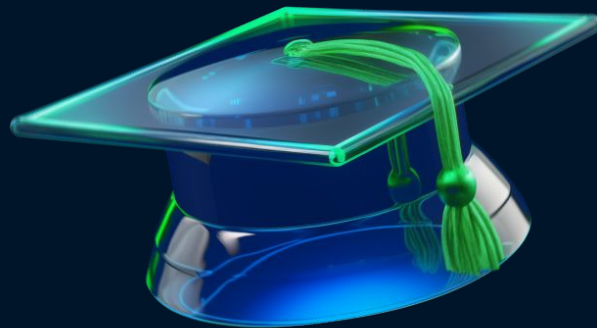


**Circle with text outside without shape property**

CSS Shapes allow us to define geometric shapes that text can flow around. These shapes can be circles, ellipses, simple or complex polygons, and even images and gradients. A few practical design applications of Shapes might be displaying circular text around a circular avatar, displaying text over the simple part of a full-width background image, and displaying text flowing around drop caps in an article.

# Summary

1. Text and box Shadows
2. Filters
3. Clip path vs Mask



# Homework

2240+

Total It eam

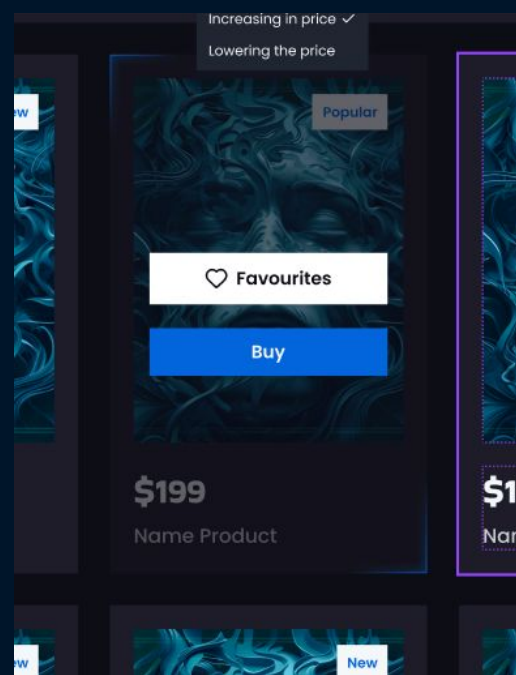
1000+

Profiles whitelisted

## 1. Achieve the highest level of accuracy with the design mockup:

- Apply visual effects such as  
shadows, shapes, filters and etc

01  
High quality



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!**