

# CSS - Advance Selectors & Masking



# Advanced Selectors

## :not() Negation Pseudo-Class

```
p:not(.intro) {  
  font-size: 1rem;  
}
```

## :has() Parent Selector

```
.card:has(img) {  
  border: 1px solid #ccc;  
}
```

## :is() and :where()

```
section :is(h1, h2, h3) {  
  font-family: 'Segoe UI', sans-serif;  
}
```

# Child Selectors

Selector	Description	Example
:first-child	Selects the first child of a parent	p:first-child { color: red; }
:last-child	Selects the last child of a parent	li:last-child { font-weight: bold; }
:nth-child(n)	Selects the nth child (1-based index)	tr:nth-child(2) { background: #f0f0f0; }
:nth-last-child(n)	Selects the nth child from the end	li:nth-last-child(2) { color: blue; }
:only-child	Selects an element that is the only child of its parent	div:only-child { margin: 10px; }
:nth-of-type(n)	Selects the nth element of a specific tag type	p:nth-of-type(2){color: red}

# CSS Masking

CSS Masking uses images or gradients to define which parts of an element should be visible and which should be hidden.

## Basic Concept

- **Black areas of the mask:** fully transparent (hidden)
- **White areas:** fully opaque (visible)
- **Gray areas:** partially visible (translucent)

1. **mask-image** : Defines the image to be used as a mask.

```
div {  
  mask-image: url('mask.png');  
}  
/* or */  
div {  
  mask-image: linear-gradient(to right, black, transparent);  
}
```

# CSS Masking

**2. mask-mode** : Controls how the mask image is applied.

```
div {  
  mask-mode: luminance;  
  /*luminance (default): Uses the brightness of the mask image.  
  alpha: Uses the alpha channel. */  
}
```

**3. mask-repeat, mask-position, mask-size:** These behave similarly to background-repeat, background-position, and background-size.

```
div{  
  mask-repeat: no-repeat;  
  mask-position: center;  
  mask-size: cover;  
}
```

# CSS Masking

4. **mask** : Combines all mask properties into a single declaration.

```
div {
  mask: url('mask.png') no-repeat center / contain;
}
```

5. **mask-composite**: add (Default), Subtract, intersect, exclude

```
div{
  mask: conic-gradient( #000 25%, #0000 25% 50%, #000 50% 75% , #0000 75% 100%) center / 20px
  20px, linear-gradient(45deg, #0000 35%, #000 45% 65%, #0000 65%) center / 20px 20px;
  mask-position: center;
  mask-composite: subtract;
}
```



# THANK YOU

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