



CSS

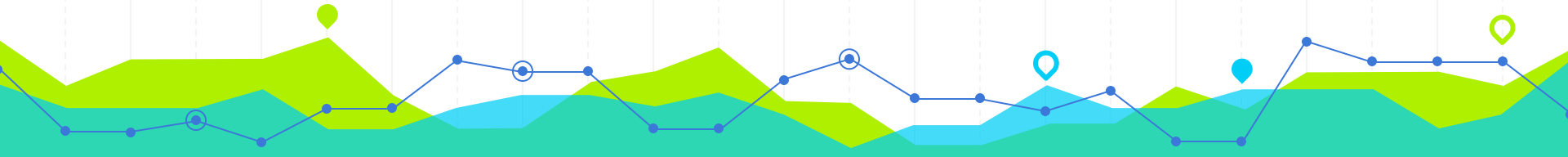
By: Tirichine Mohammed

What is CSS?

Cascading Style Sheets

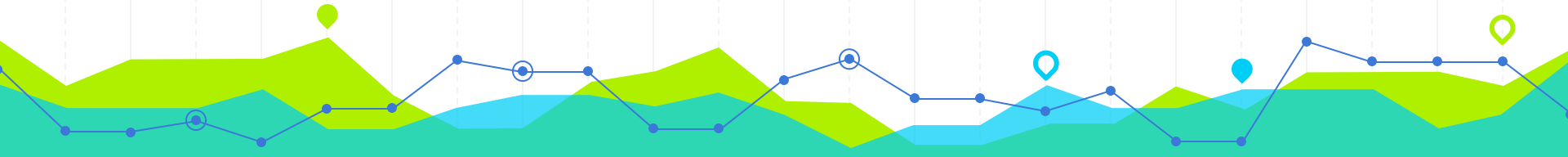
The standard language for styling an HTML document

Describes how HTML elements should be displayed



How does it work?

```
Selector {  
  property: value;  
}
```

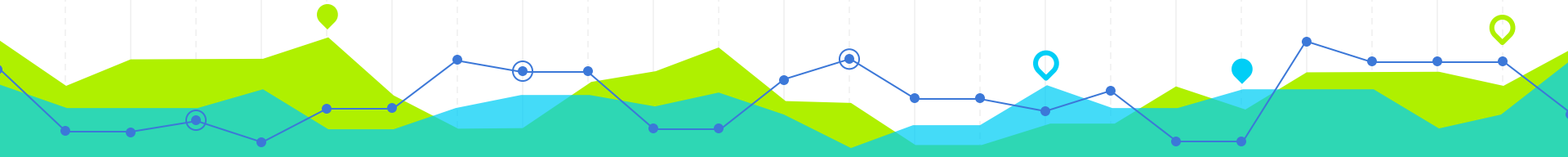


Apply CSS to HTML

Inline

Internal

External



Apply CSS to HTML

Inline

```
<tag style="property: value;">
```



Apply CSS to HTML

Internal

```
<style>
```

```
  Selector {
```

```
    property: value;
```

```
}
```

```
</style>
```



Apply CSS to HTML

External

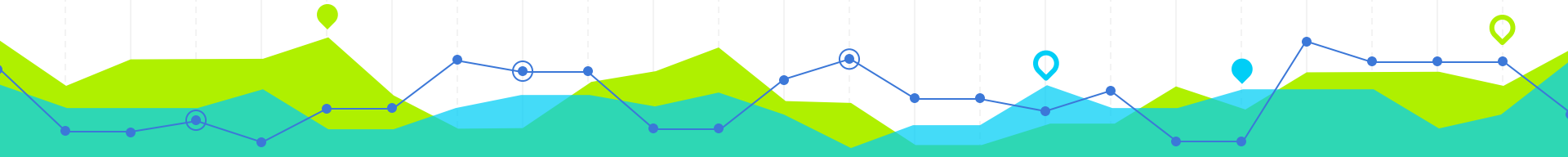
```
<link  
  rel="stylesheet"  
  href="/style.css"  
>
```

style.css

```
Selector {  
  property: value;  
}
```

CSS Selectors

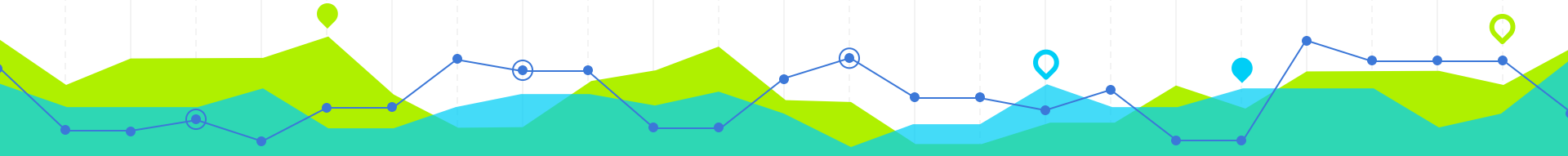
Type
Class
ID



CSS Selectors

Type

```
h1 {  
  property: value;  
}
```



CSS Selectors

Class

```
.container {  
  property: value;  
}
```



CSS Selectors

ID

```
#title {  
  property: value;  
}
```



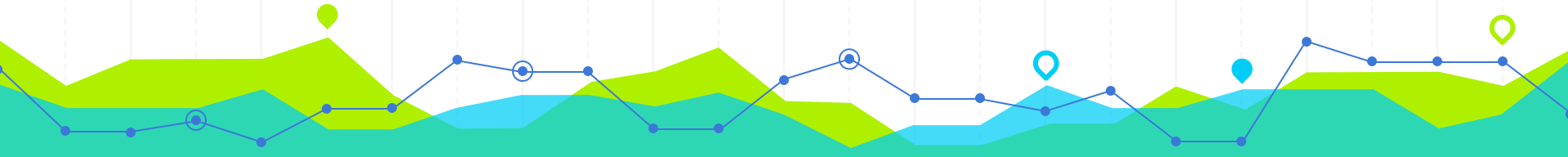
CSS Selectors: Combinators

Descendant

Child

Adjacent sibling

General sibling



CSS Selectors: Combinators

Descendant

```
.content h1 {  
  property: value;  
}
```



CSS Selectors: Combinators

Descendant

`<element class="content">`

...

`<h1>`



CSS Selectors: Combinators

Child

```
#hero > .title {  
  property: value;  
}
```

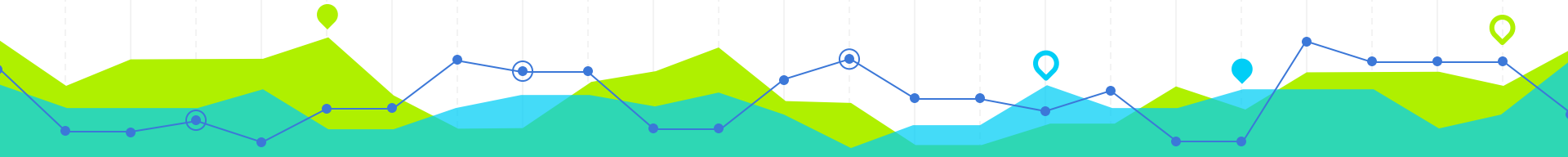


CSS Selectors: Combinators

Child

```
<element id="hero">
```

```
  <element class="title">
```



CSS Selectors: Combinators

Adjacent sibling

```
.div + p {  
  property: value;  
}
```



CSS Selectors: Combinators

Adjacent sibling

`<element class="div">`

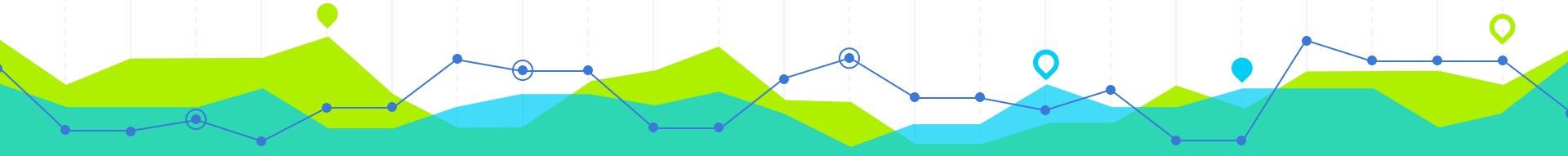
`<p>`



CSS Selectors: Combinators

General sibling

```
div ~ #p {  
  property: value;  
}
```



CSS Selectors: Combinators

General sibling

`<div>`

...

`<element id="p">`



CSS Selectors: Pseudo-classes

```
.card:pseudo {  
  property: value;  
}
```



CSS Selectors: Pseudo-classes

Link

unvisited link

Visited

visited link

Hover

mouse over element

Active

selected link



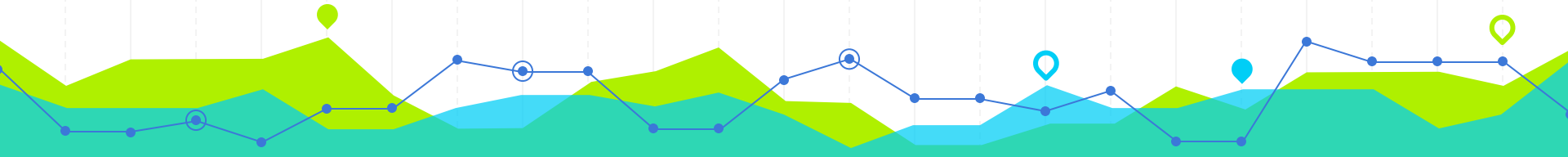
Using Multiple Selectors

```
#hero > .title, a:hover {  
  property: value;  
}
```

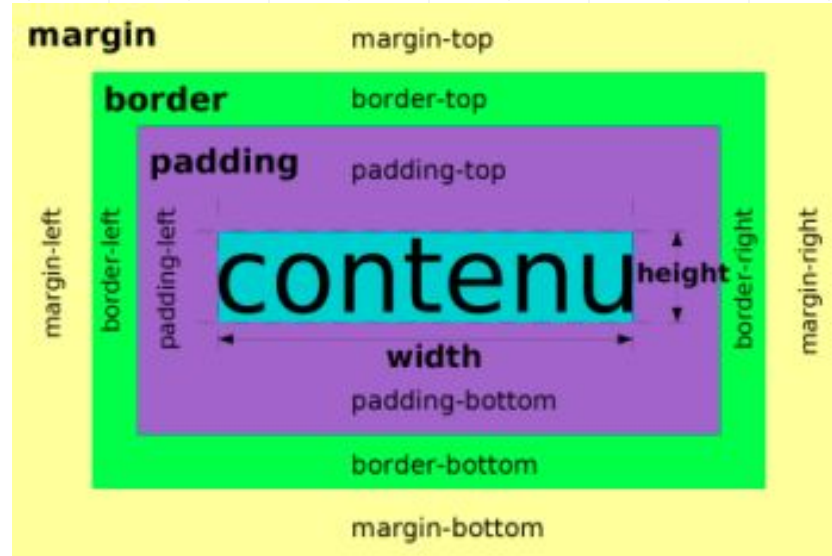


Apply Many Rules

```
div#id.class1:pseudo {  
  property: value;  
}
```



CSS Box Model



Padding

```
padding-top: 10px;  
padding-bottom: 20px;  
padding-right: 30px;  
padding-left: 40px;
```



Padding

padding: 10px;

all

padding: 10px 20px;

vertical - horizontal

padding: 10px 20px 10px;

top - horizontal - bottom

padding: 10px 20px 10px 30px;

top - right - bottom - left



Margin

```
margin-top: 10px;  
margin-bottom: 20px;  
margin-right: 30px;  
margin-left: 40px;
```



Margin

`margin: 10px;` all

`margin: 10px 20px;` vertical - horizontal

`margin: 10px 20px 10px;` top - horizontal - bottom

`margin: 10px 20px 10px 30px;` top - right - bottom - left



Size

height: 100px;
width: 320px;



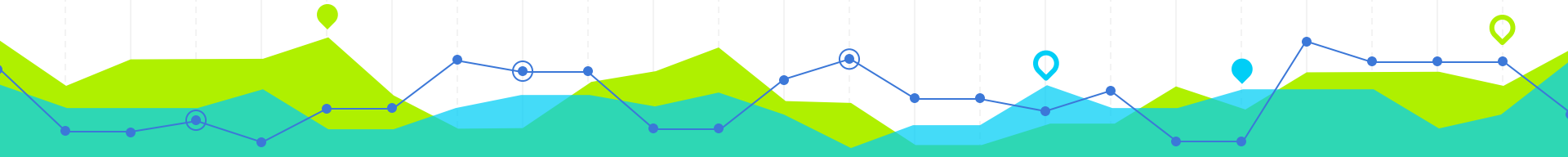
Border

Width

Style

Color

Radius



Border Width

```
border-top-width: 10px;  
border-bottom-width: 20px;  
border-right-width: 30px;  
border-left-width: 40px;
```



Border Width

`border-width: 10px;` all

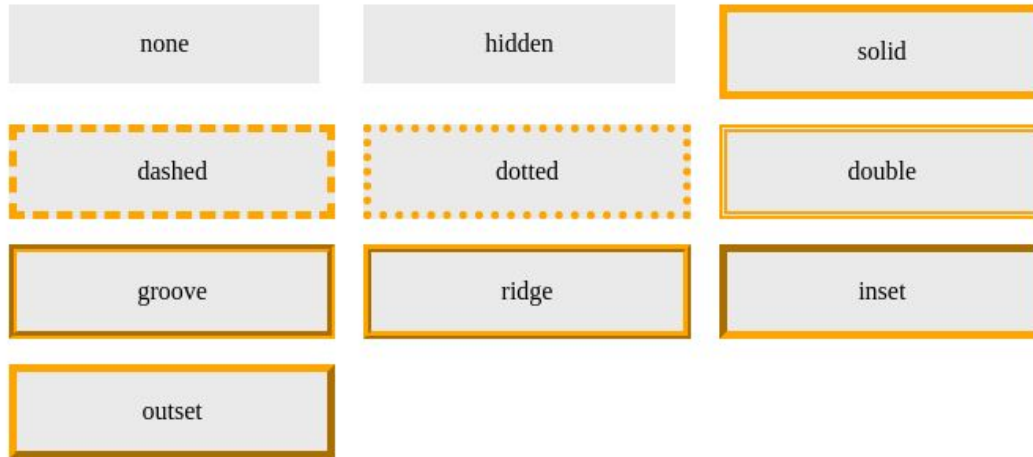
`border-width: 10px 20px;` vertical - horizontal

`border-width: 10px 20px 10px;` top - horizontal - bottom

`border-width: 10px 20px 10px 30px;` top - right - bottom - left

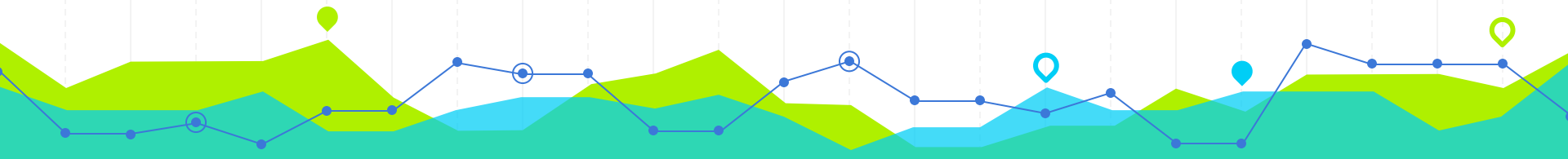


Border Style



Border Style

```
border-top-style: solid;  
border-bottom-style: dotted;  
border-right-style: dashed;  
border-left-style: double;
```



Border Style

`border-style: solid;` all

`border-style: solid dotted;` vertical - horizontal

`border-style: solid dotted dashed;` top - horizontal - bottom

`border-style: solid dotted dashed double;` T - R - B - L



Border Color

```
border-top-color: red;  
border-bottom-color: blue;  
border-right-color: yellow;  
border-left-color: black;
```



Border Color

`border-color: red;` all

`border-color: red blue;` vertical - horizontal

`border-color: red blue yellow;` top - horizontal - bottom

`border-color: red blue yellow black;` top - right - bottom - left



Border Radius

`border-radius: 10px;`

all

`border-radius: 10px 20px;`

TL+BR - TR+BL

`border-radius: 10px 20px 10px;`

TL - TR+BL - BR

`border-radius: 10px 20px 10px 30px;`

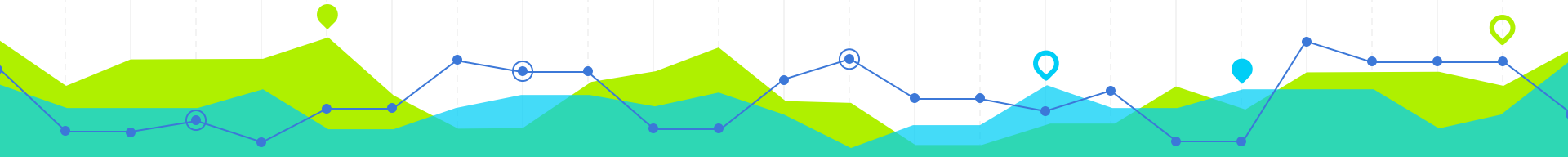
TL - TR - BR - BL



Border

```
border:2px solid red;
```

Width style color



Text Properties

Color

Font-family

Font-style

Font-weight

Font-size

Text-decoration



Text Properties

Color

```
color: red;
```

```
color: rgb(255, 0, 0);
```

```
color: #ff0000;
```

```
color: rgba(255, 0, 0, 0.5);
```



Text Properties

Font-family

```
font-family: cursive;
```

```
font-family: 'Times New Roman', Times, serif;
```

```
font-family: Arial, Helvetica, sans-serif;
```



Text Properties

Font-family

FONTS

Generic Families

Serif

• Times New Roman

Sans-serif

• Arial

Monospace

• Courier New

Cursive

• Comic Sans

Fantasy

• **Impact**

Font Families

Text Properties

Font-style

```
font-style: normal;  
font-style: italic;
```



Text Properties

Font-weight

font-weight: normal | bold;

font-weight: lighter | bolder;

font-weight: 100 -> 900;



Text Properties

Font-size

font-size: 10px;

font-size: 7.5pt;

font-size: 2em;

font-size: 2rem;



Text Properties

Font-size

- **px**: set the size by pixels
- **pt**: set the size by points (1pt ~ 1.33px)
- **em**: set the font size relative to the element's default size
- **rem**: set the font size relative to the root "html" element



Text Properties

Text-decoration

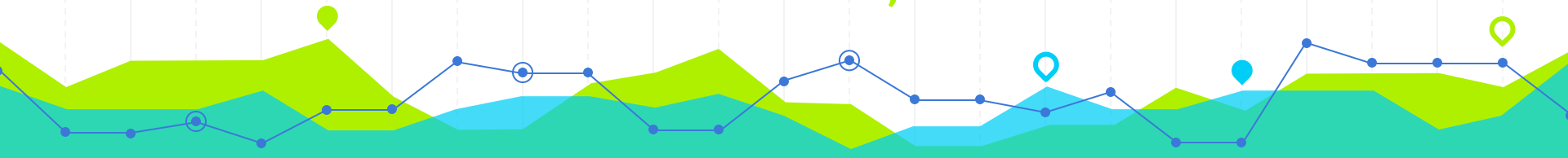
text-decoration: **underline**;

text-decoration: **underline**;

text-decoration: **line-through**;

text-decoration: **underline overline**;

text-decoration: **none**;



CSS Units

Absolute

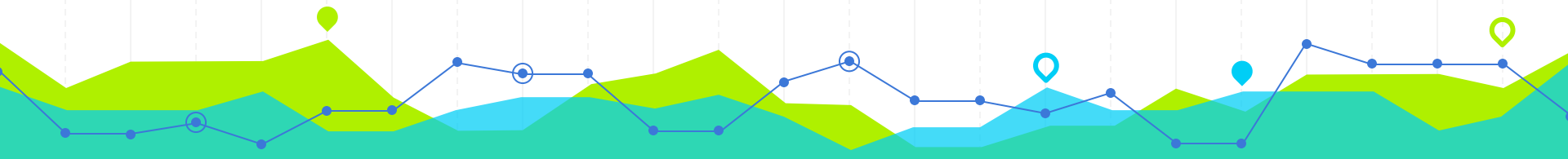
- **cm**: centimeters
- **mm**: millimeters
- **px**: pixels
- **in**: inches (1in = 96px = 2.54cm)
- **pt**: points (1pt = 1/72 of 1in)
- **pc**: picas (1pc = 12 pt)



CSS Units

Relative

- **em**: relative to the font-size of the element
- **rem**: relative to font-size of the root element
- **vw**: relative to 1% of the width of the viewport
- **vh**: relative to 1% of the height of the viewport
- **%**: relative to the parent element



CSS Display

```
display: block;  
display: inline;  
display: inline-block;  
display: none;
```

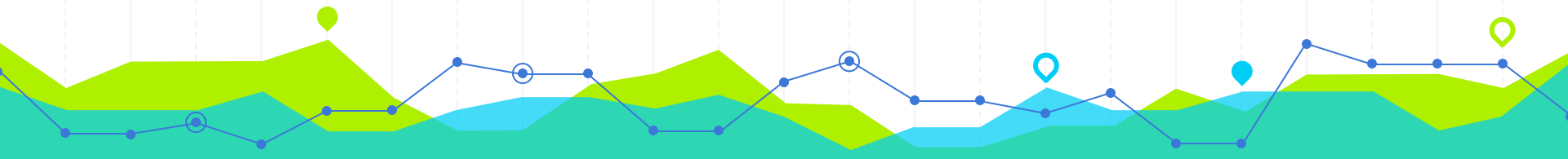


CSS Display Block

Starts on a new line

Takes up the full width

It can have height, width, top margin and bottom margin values



CSS Display

Inline

Doesn't Start on a new line

Takes only the necessary width to render the content

It can't have height, width, top margin and bottom margin values



CSS Display

Inline-block

A merge between block and inline

Doesn't start on a new line and takes only the necessary width by default

It can have height, width, top margin and bottom margin values

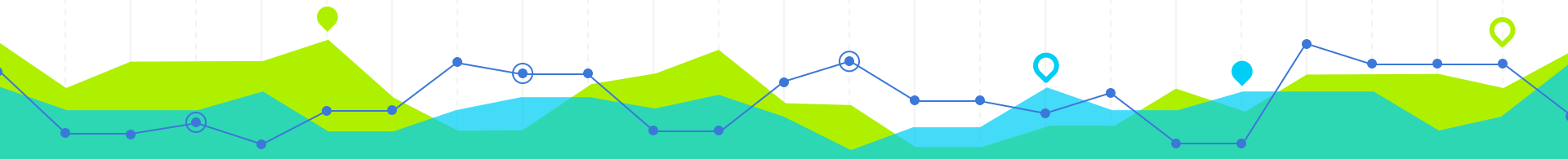


Table Properties

Border-collapse

Border-spacing



Table Properties

Border-collapse

```
border-collapse: collapse;  
border-collapse: separate;
```



Table Properties

Border-spacing

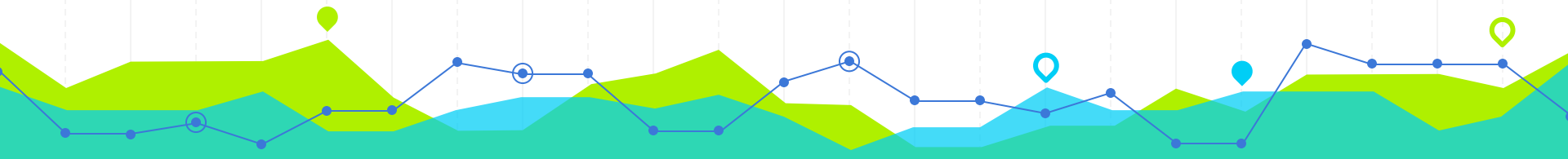
```
border-spacing: 2px;  
border-spacing: 2cm 1rem;
```

all
horizontal - vertical



Background

```
background-color: <color-value>;  
background-image: url("/src/background.png");  
background-position: center;  
background-size: cover | contain;  
background-repeat: no-repeat;
```

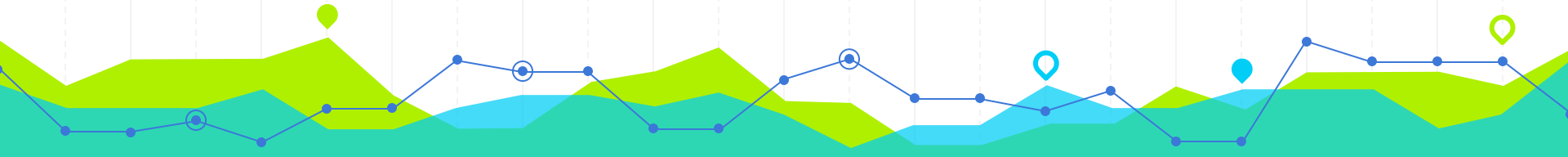


Lists

```
list-style-type: circle;  
list-style-type: upper-alpha;  
list-style-type: lower-roman;  
list-style-type: decimal;
```



**Let's
practice**



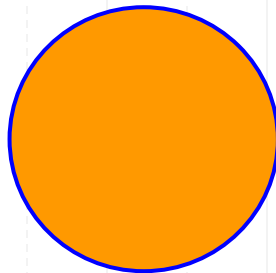
First challenge

Search and Try

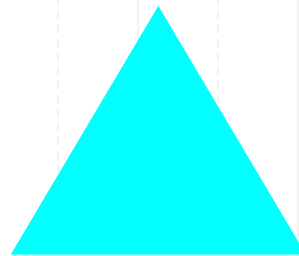
Try to realize the following shapes with CSS



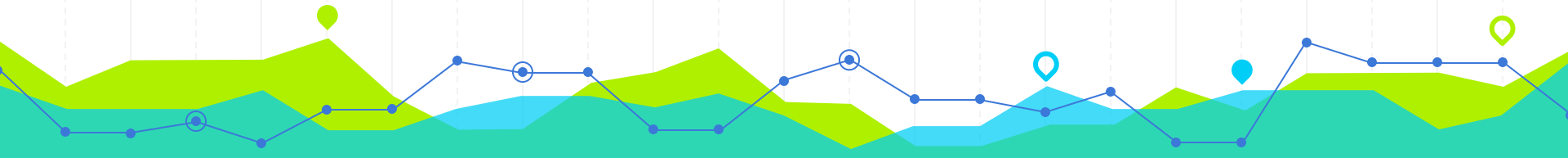
Parallelogram



Circle



Triangle



Second challenge

CSS Selectors

Try to solve the challenges in [this repo](#)



Resources

[W3Schools](#)

[MDN Web Docs](#)

[CSS Course by Google](#)

