

A silver laptop is open on a wooden table. The screen displays a Windows 10 desktop with a blue mountain wallpaper. The text "What is a computer?" is written in a white, handwritten-style font across the center of the screen. The taskbar at the bottom shows various application icons. The background is a blurred indoor setting with wooden chairs and a window looking out onto a green area.

What is a computer?

A person with long, wavy, reddish-brown hair, wearing a grey ribbed sweater, is holding a silver laptop. The laptop screen is filled with a solid pink color, and the text "what is it really?" is written in a white, handwritten-style font in the center. The laptop is on a light-colored wooden table. To the right of the laptop, there is a black paper cup with a light-colored beverage. In the background, a window with a black frame is visible, showing a bright, out-of-focus outdoor scene. The overall lighting is soft and natural, suggesting an indoor setting with large windows.

what is it really?

Active Learning

- How would you explain it?

How would you explain the
pattern of eating in a restaurant?



A photograph of a woman with long blonde hair drinking from a glass of amber liquid in a restaurant. She is wearing a light-colored jacket over a red top. In the foreground, another woman with long brown hair is seen from the side, looking towards the first woman. The table is set with various items including a water bottle, a glass, and some food. The background is filled with other diners and warm, bokeh-style lighting. The text 'Users' and 'I/O' is overlaid on the left side of the image.

Users
I/O

A waiter in a white shirt is balancing a silver tray with several items: a glass of orange juice, a glass with ice and a green bottle, and a Coca-Cola bottle. The waiter is holding the tray with both hands, and a blue napkin is visible in the bottom left. The background is blurred, showing green foliage and a person's head in the bottom left.

Messages




Storage

Storage

Recipes

Storage

RAM

A close-up photograph of a chef's hands adding a large portion of shredded purple cabbage into a black wok. The wok is positioned on a gas stove with a visible blue flame. A wooden spatula is already inside the wok. The chef is wearing a dark apron and has a ring on their left ring finger. The background is blurred, showing a kitchen setting with a vase of flowers.

Chef - CPU













High level description of a computer

- The restaurant analogy
- Explain that we will write instructions
- The computer will interpret them

HTML



HELLO



Heading

```
<h1>Hello World!</h1>
```

Paragraph

```
<p>Hello World! </p>
```


Image

```

```

Link

```
<a href="https://www.wikipedia.org/">  
    Wikipedia  
</a>
```

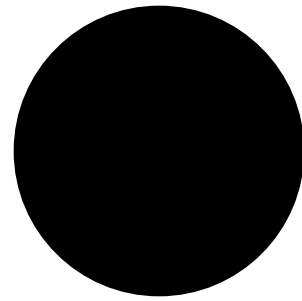

Active learning

- Declarative programming
- Say "Hello World!"
- Create a simple web document

Topics

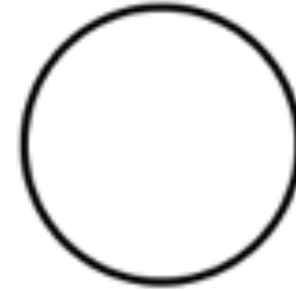
- HTML
- CSS
- Screen coordinate system
- Z-Index
- DIV properties

Add a shape



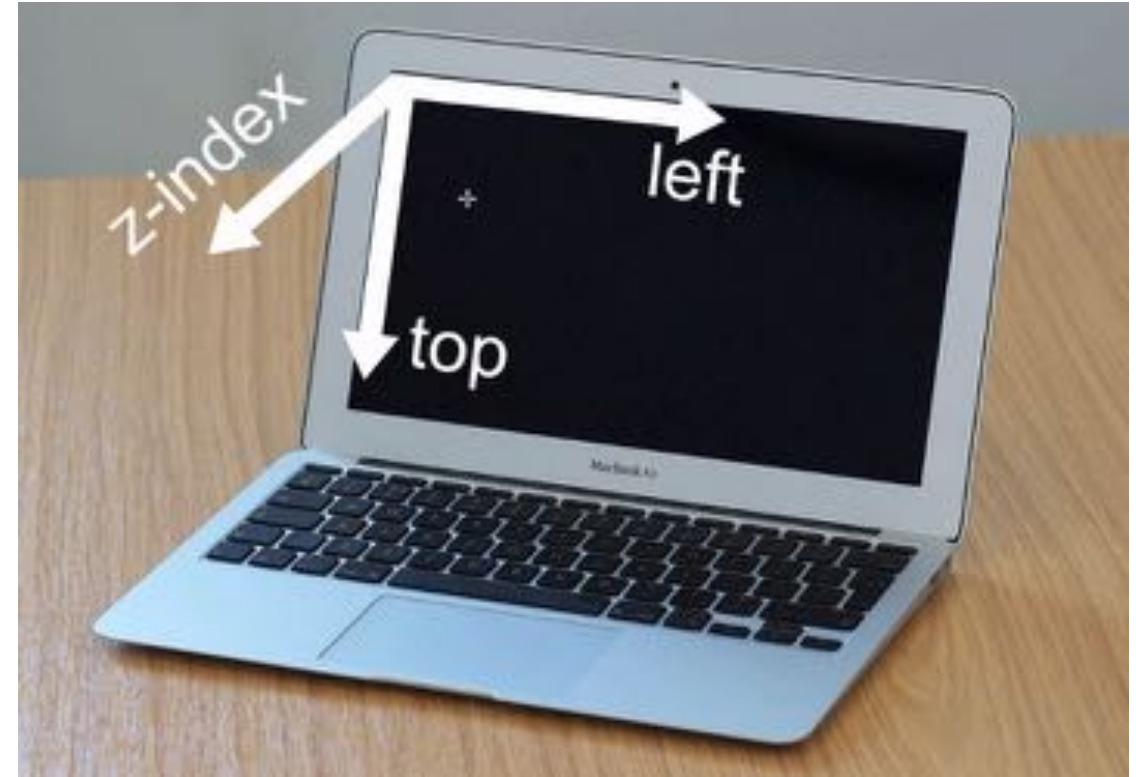
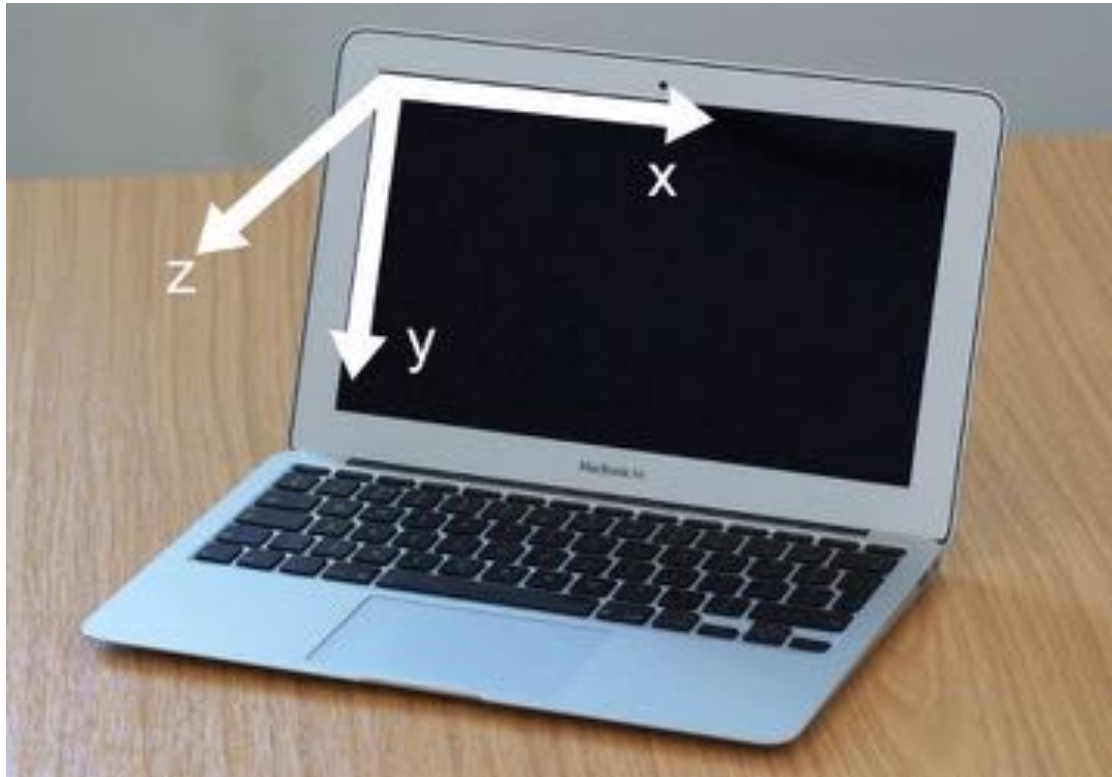


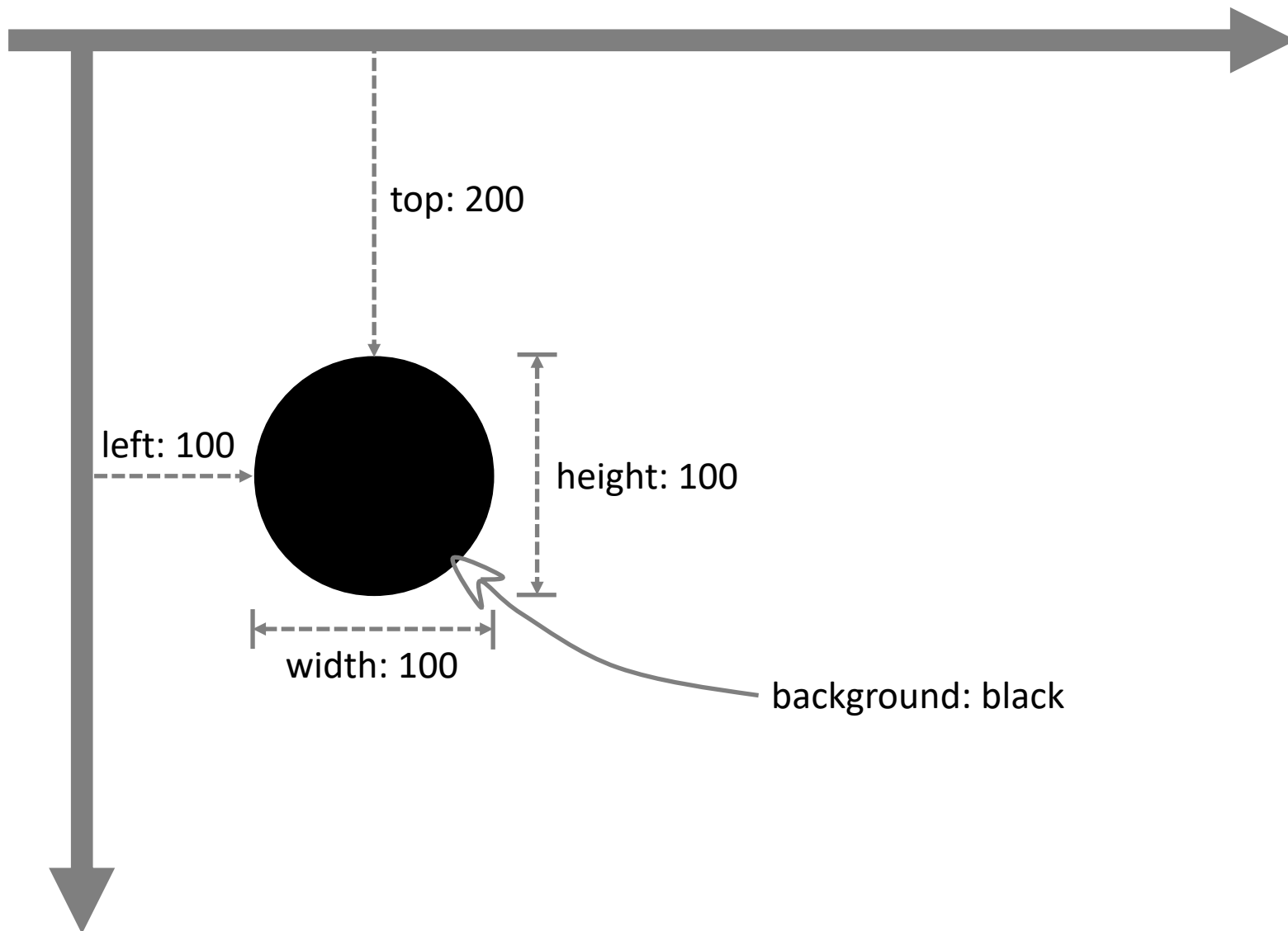
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  background:black">
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```



```
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```

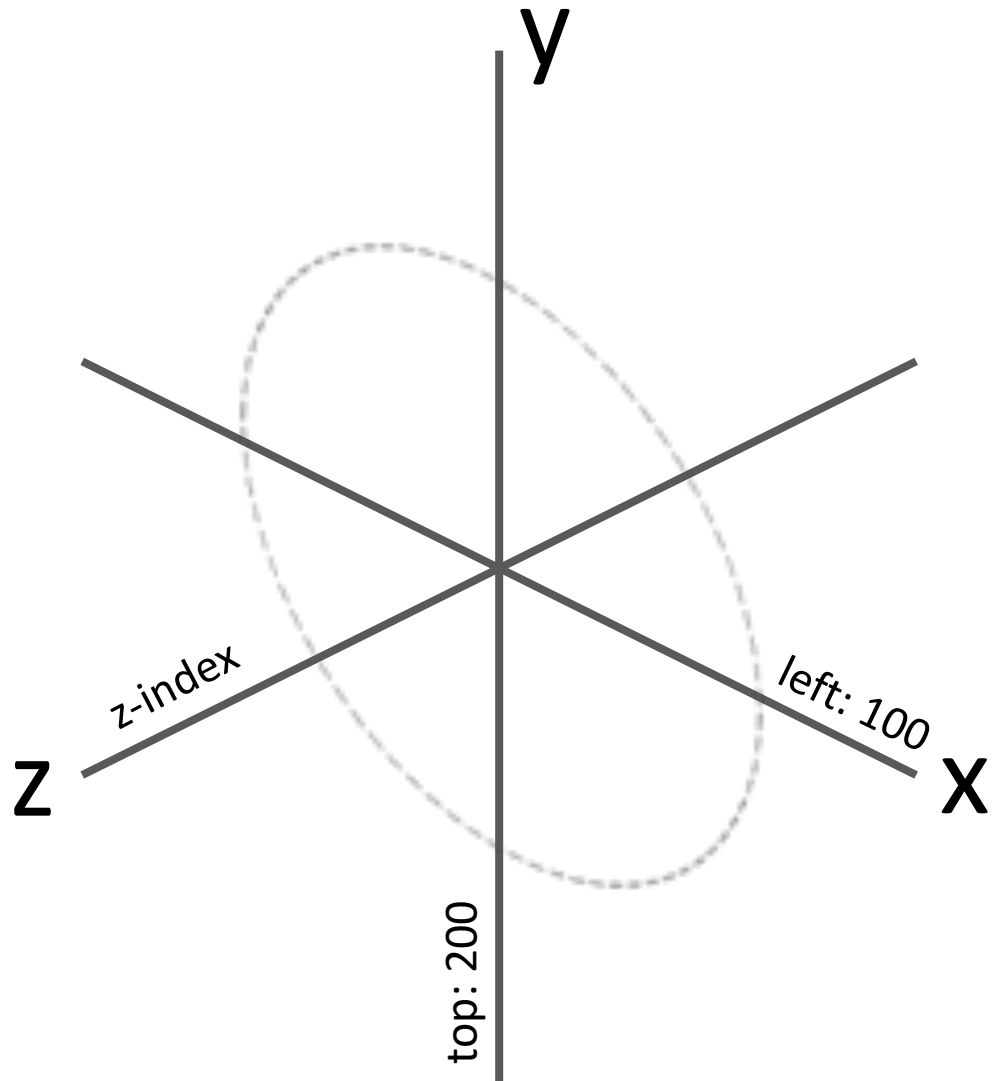

Coordinates



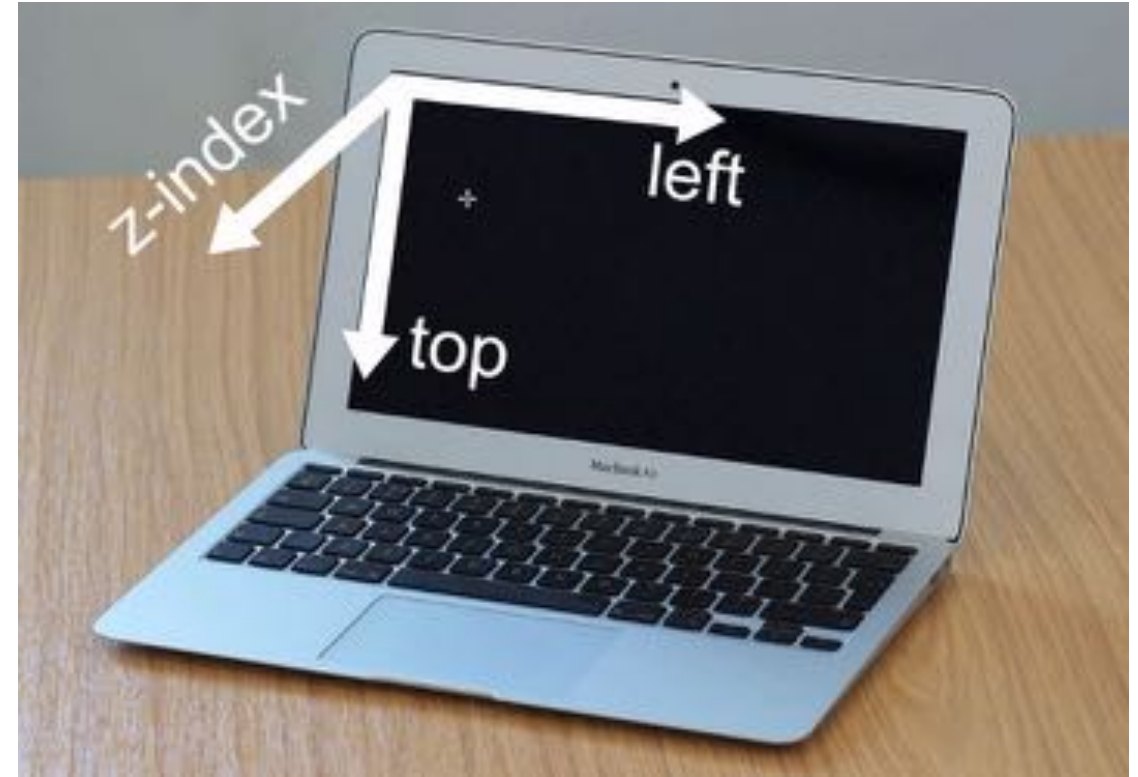
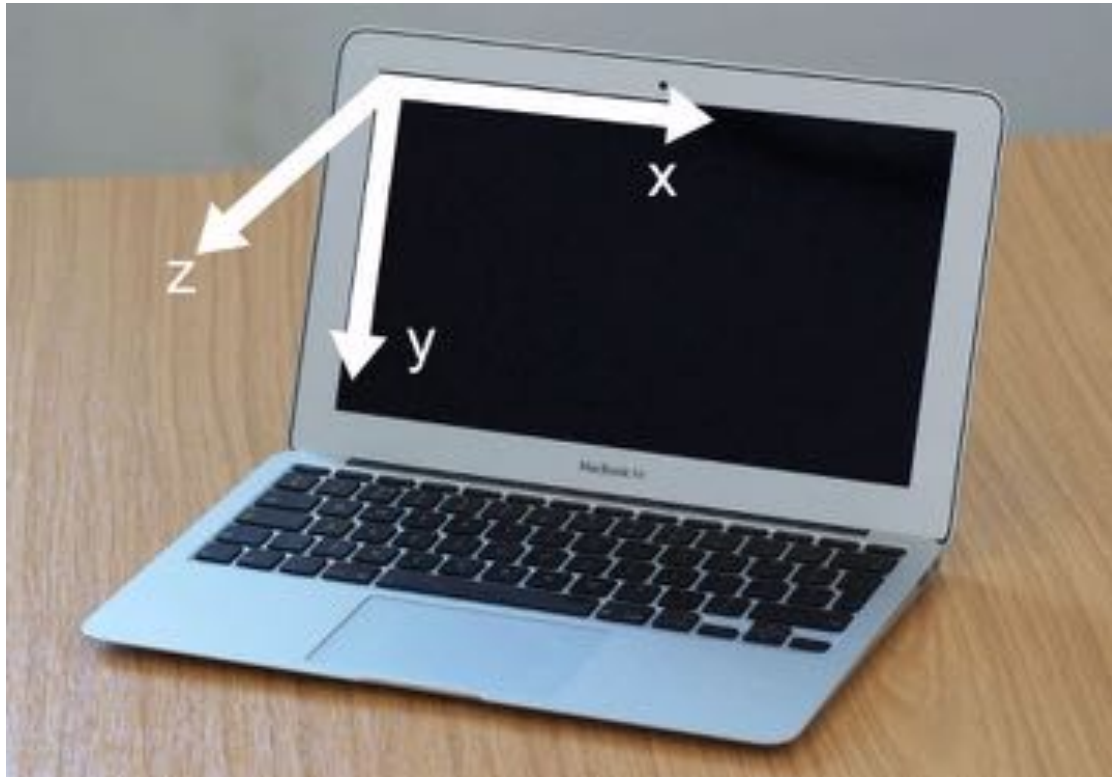


Active learning

- Create a couple of shapes



Coordinates





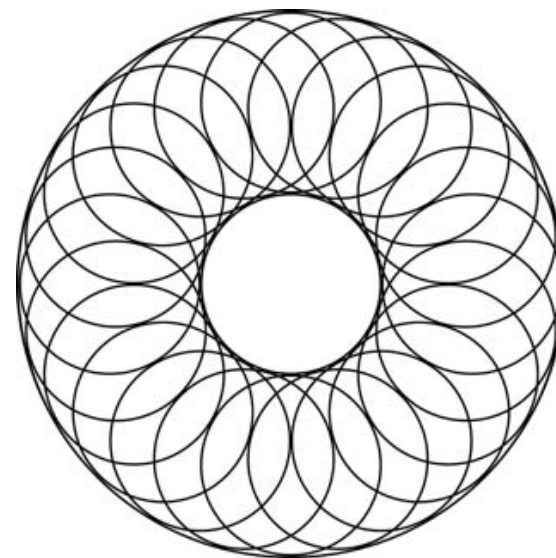
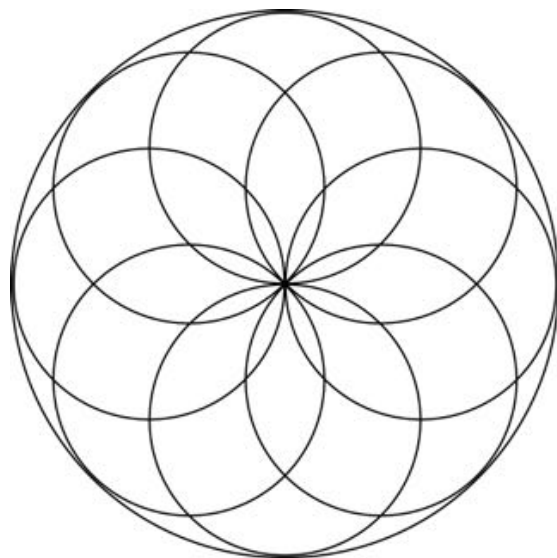
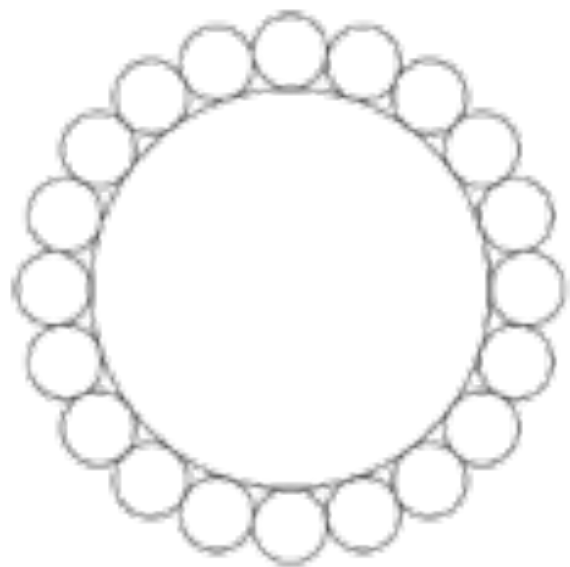


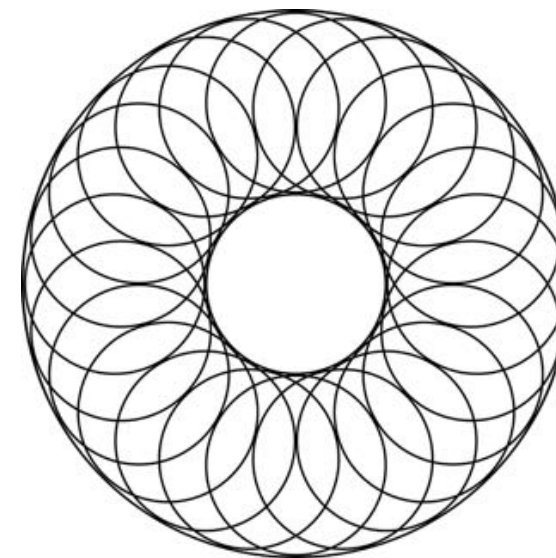
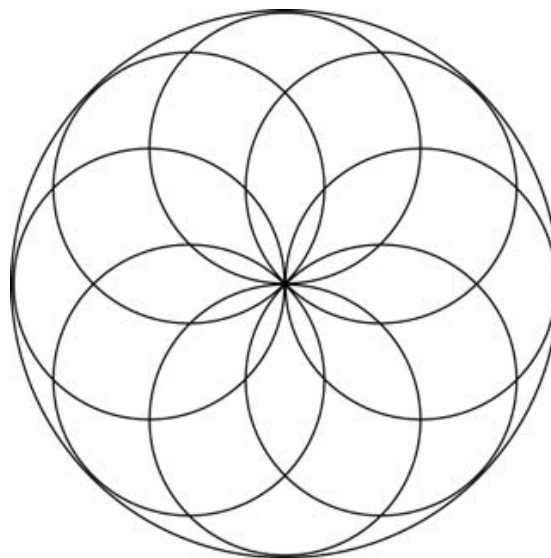
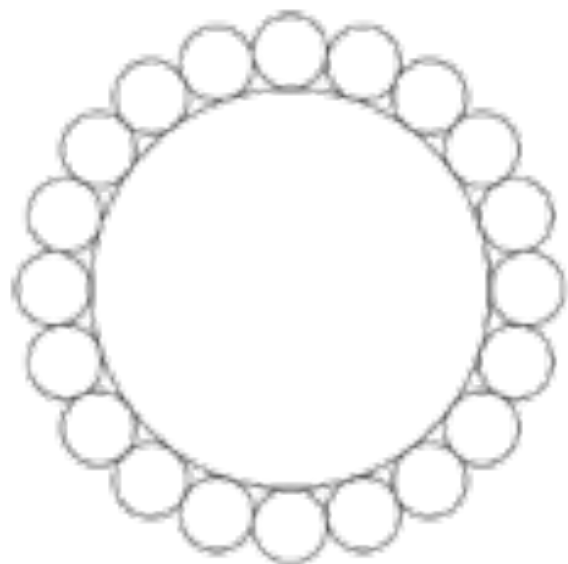
For more colors see:
<http://goo.gl/uQVY8f>

```
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  position:absolute;  
  left:100px;  
  top:200px;  
  width:100px;  
  height:100px;  
  border-radius:50%;  
  background:black">  
</div>
```

Active learning

- Create shape





<https://css-tricks.com/examples/ShapesOfCSS/>



