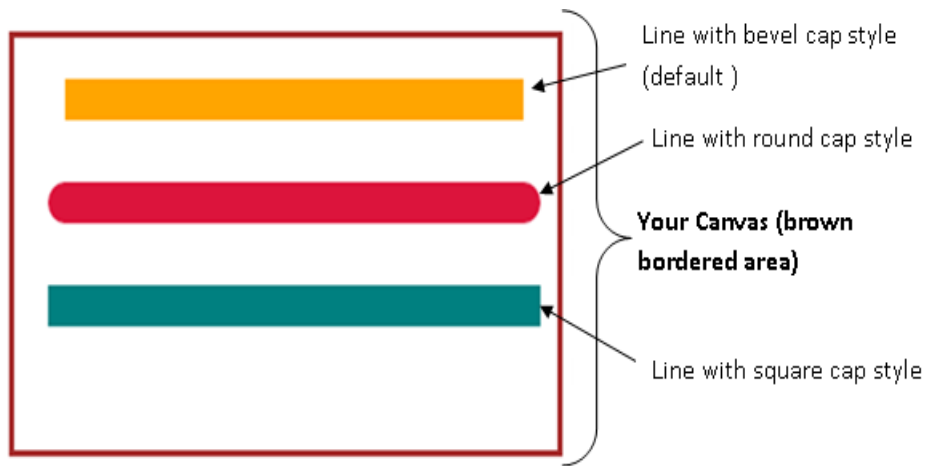


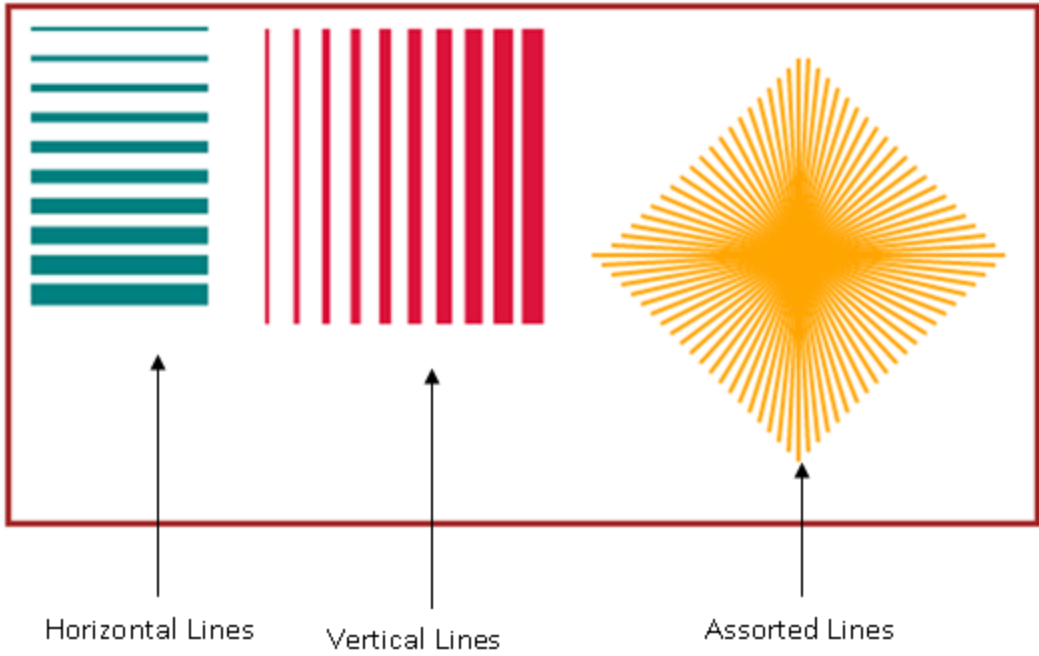
1

Paths and Text

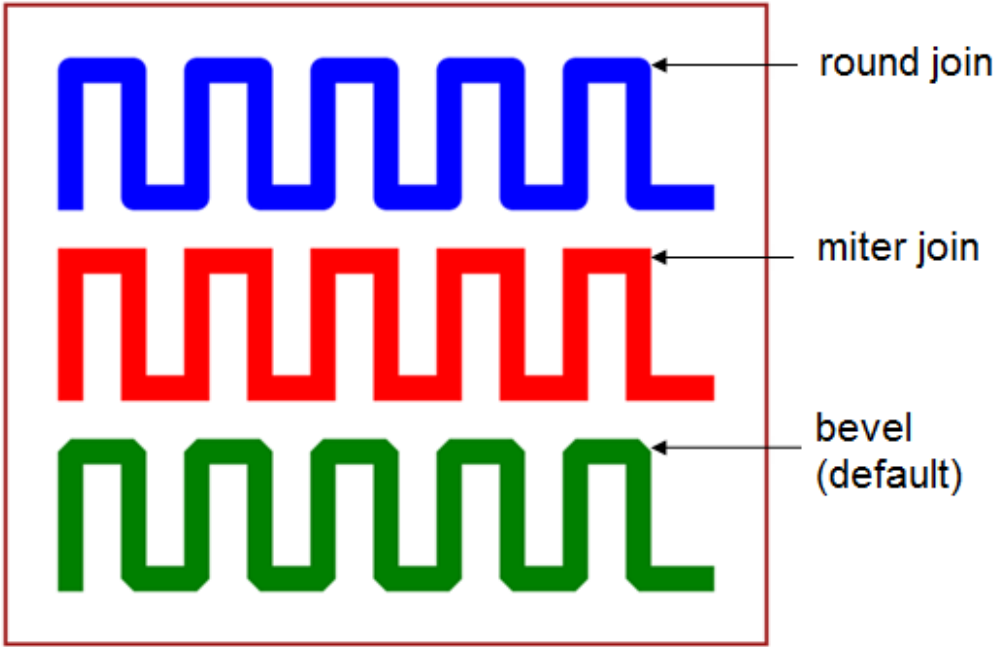
Drawing lines



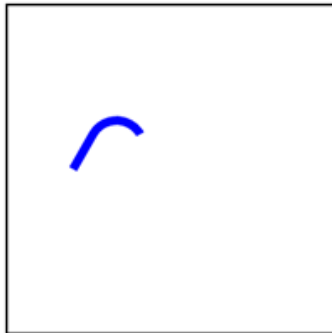
Drawing horizontal, vertical, and assorted lines

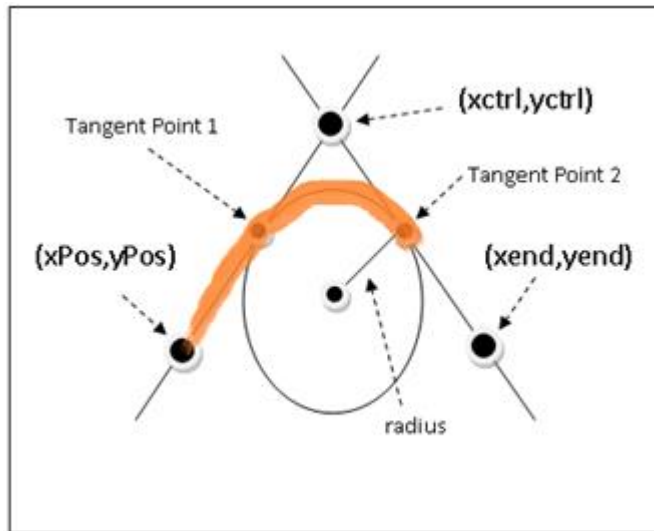
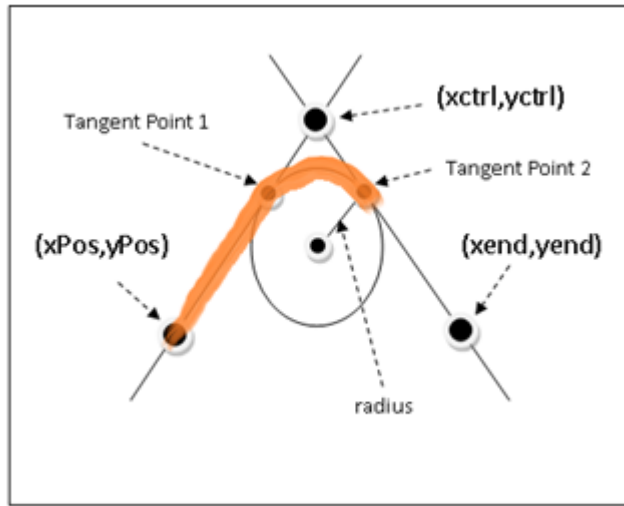


Drawing joins

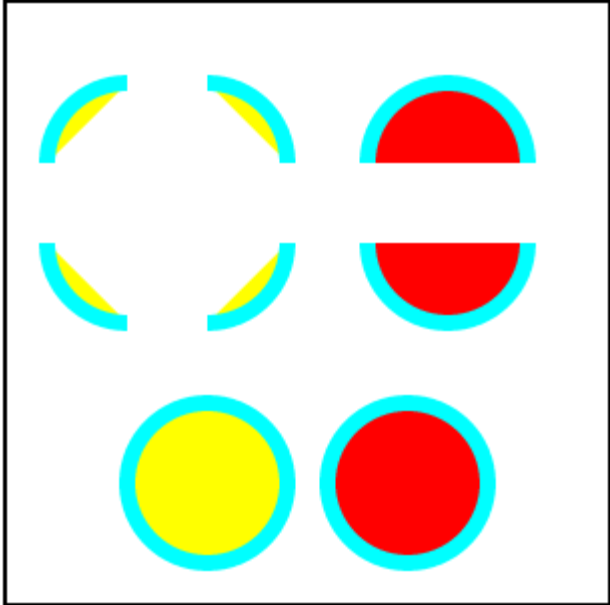


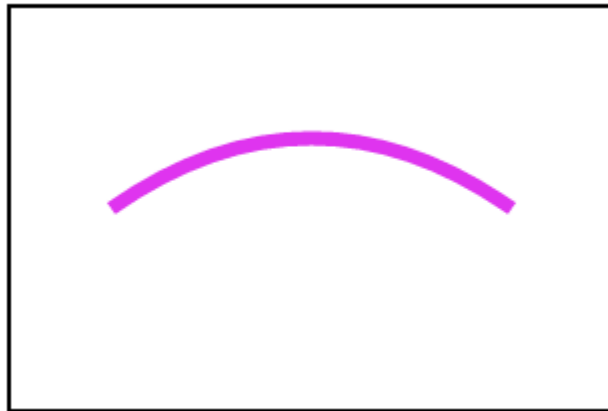
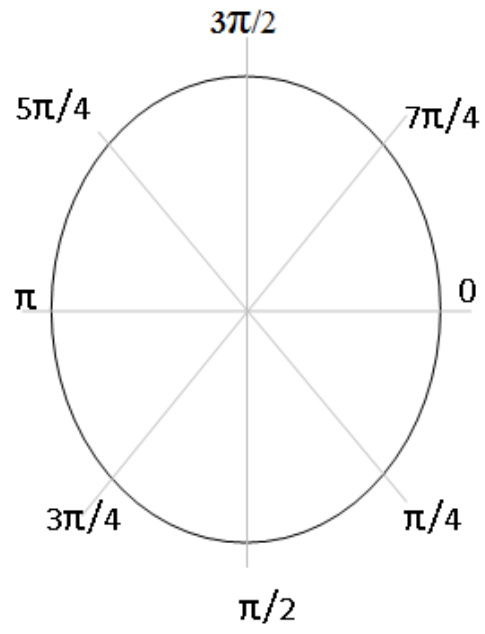
Drawing arc1

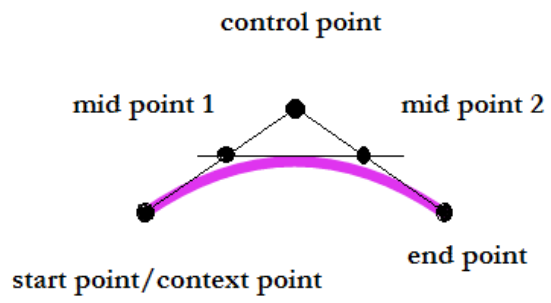




Drawing arc2



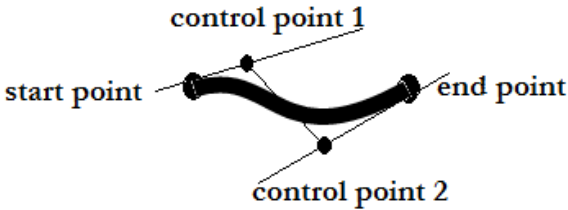
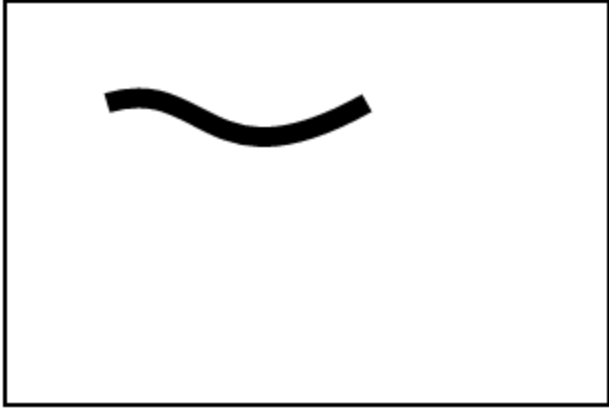




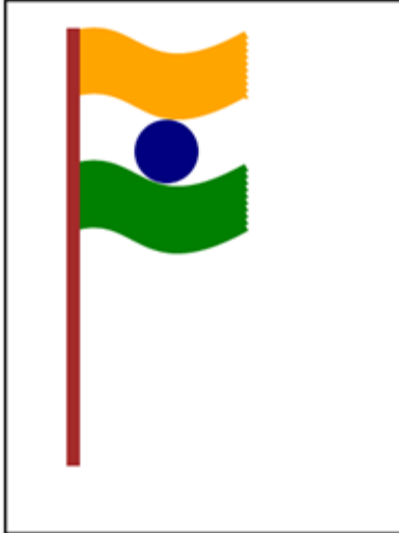
Drawing a rainbow



Drawing a Bezier curve



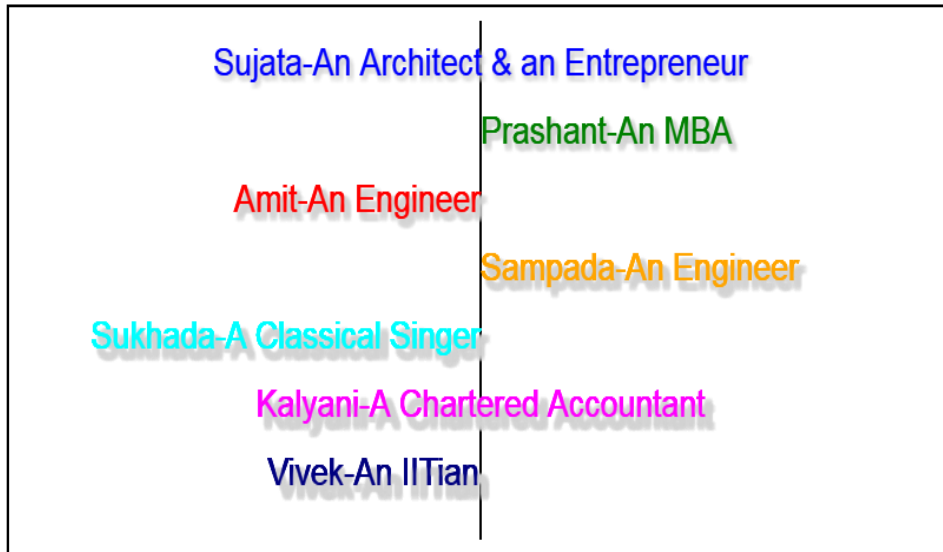
Drawing a flag



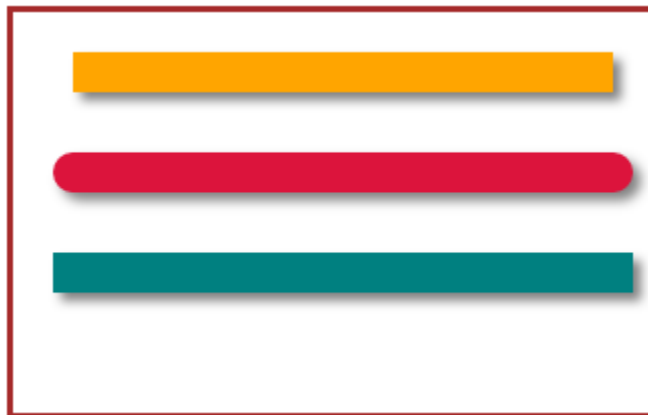
Drawing text

Sujata-An Architect	& an Entrepreneur
	Prashant-An MBA
Amit-An Engineer	
	Sampada-An Engineer
Sukhada-A Classical Singer	
	Kalyani-A Chartered Accountant
Vivek-An IITian	

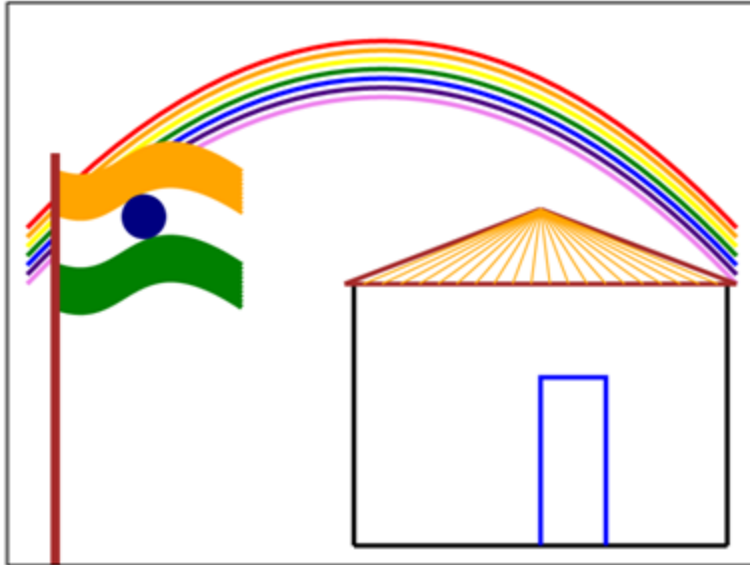
Drawing 3D text with shadows



Adding shadows to objects



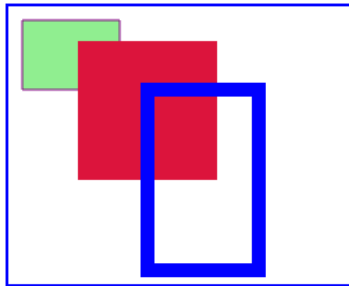
Drawing a house



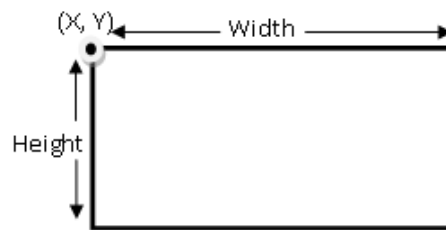
2

Shapes and Composites

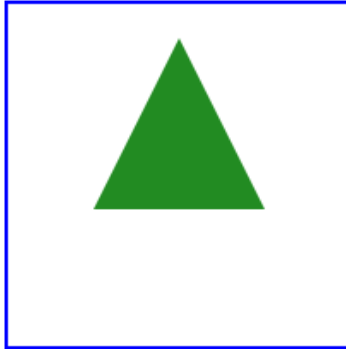
Drawing rectangles



Rectangles

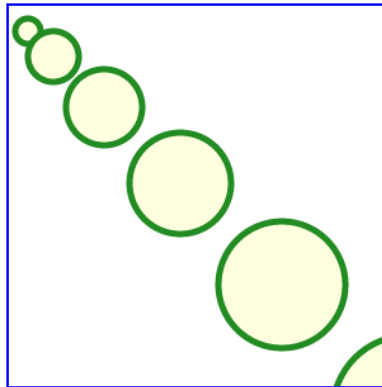


Drawing triangles



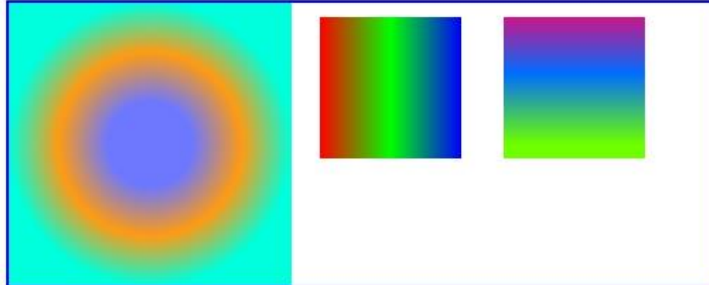
Triangles

Drawing circles



Circles

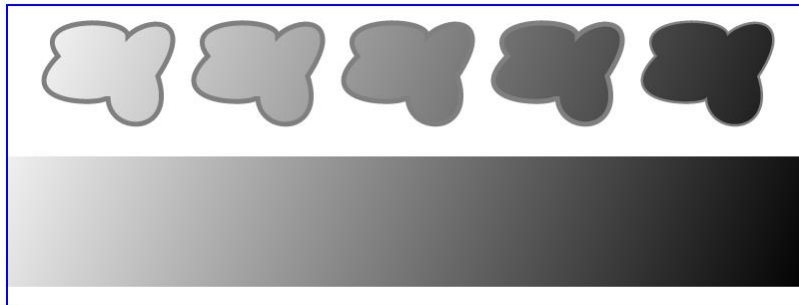
Drawing gradients



Radial and Linear Gradient

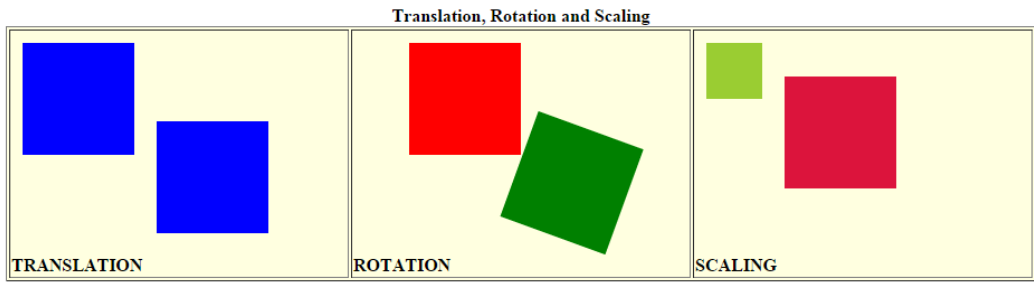
Working with custom shapes and styles

The output of our recipe is:

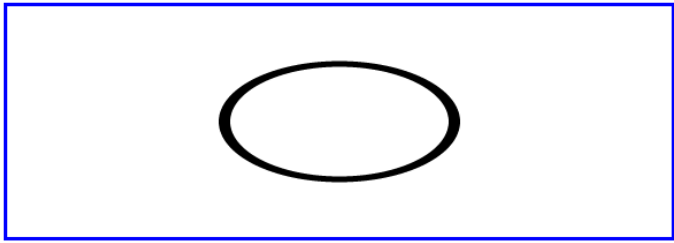


Cloudy Sky

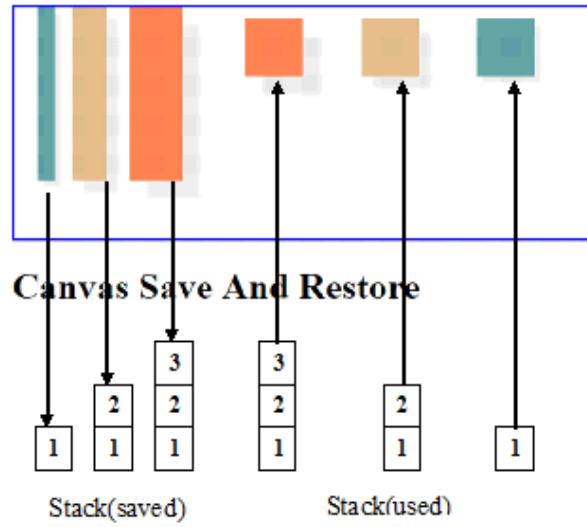
Demonstrating translation, rotation, and scaling



Drawing an ellipse


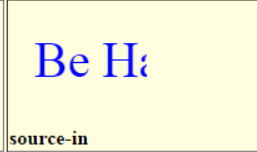


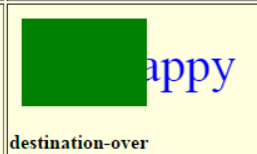
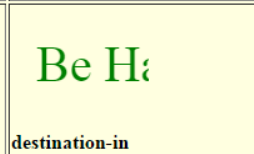

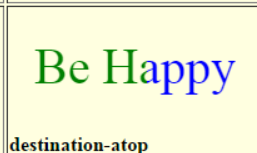
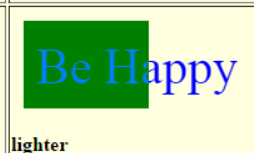
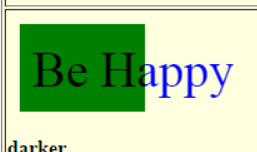
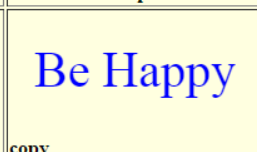
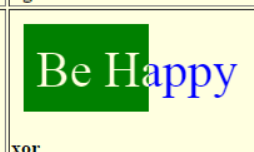


Saving and restoring canvas state

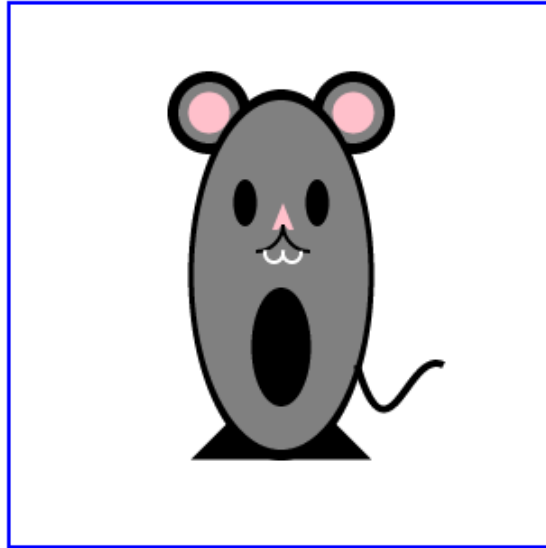


Demonstrating composites

Composites with Shapes

 <p>source-over</p>	 <p>source-in</p>	 <p>source-out</p>
 <p>source-atop</p>	 <p>destination-over</p>	 <p>destination-in</p>
 <p>destination-out</p>	 <p>destination-atop</p>	 <p>lighter</p>
 <p>darker</p>	 <p>copy</p>	 <p>xor</p>

Drawing a mouse

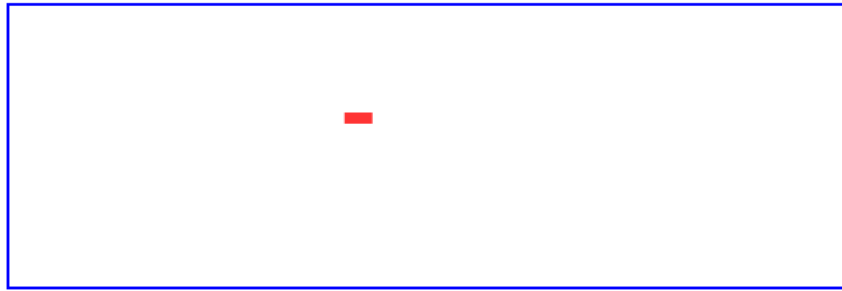


A Mouse

3

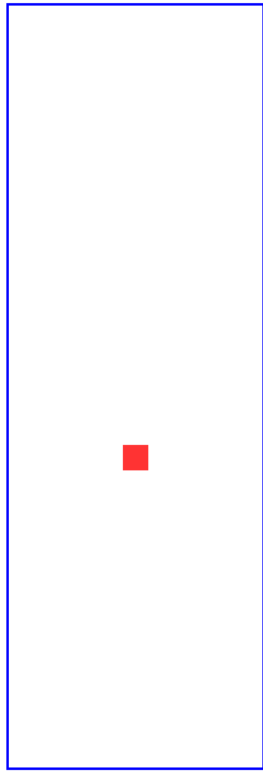
Animation

Demonstrating acceleration



Demonstration of Acceleration

Demonstrating gravity



Demonstration of Gravity

Animating a line



An animated line

An animated line

An animated line

Animating text

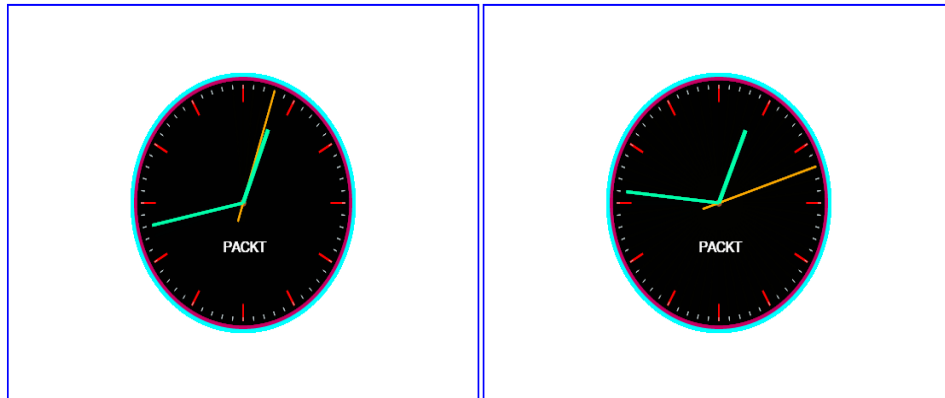


An Animated Text

An Animated Text

An Animated Text

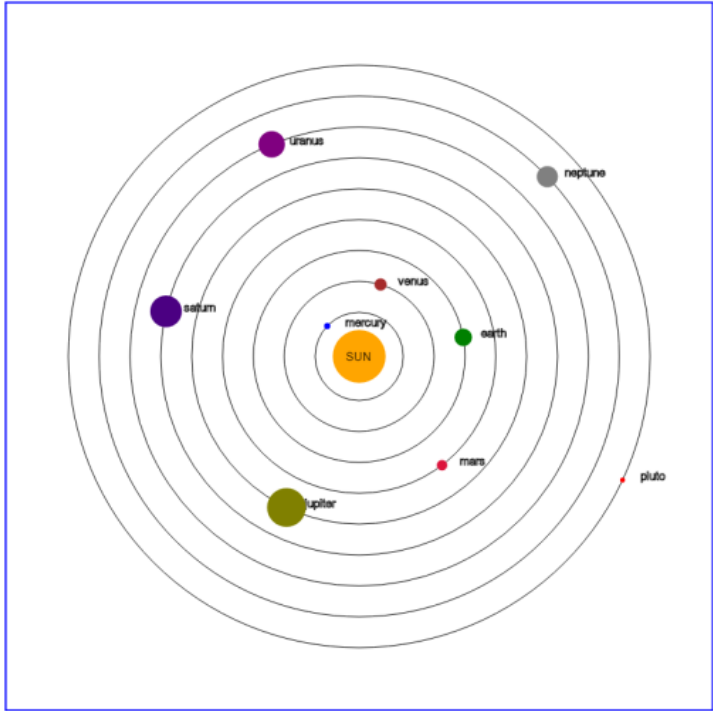
Animating a clock



An Elegant Analog Clock

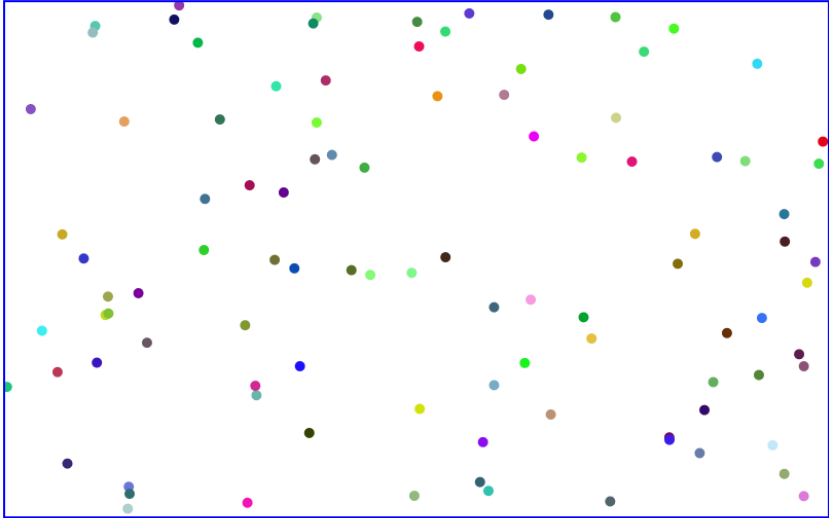
An Elegant Analog Clock

Animating a solar system



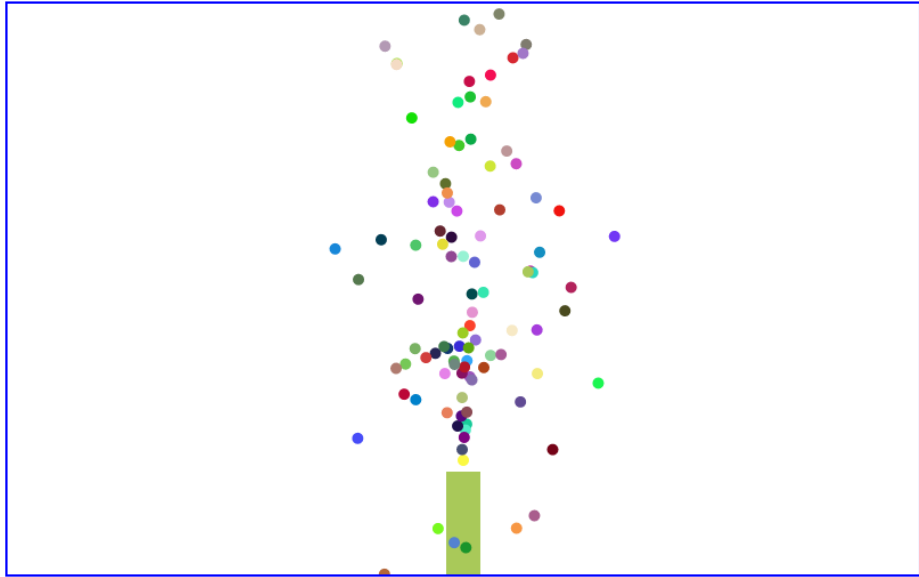
Solar system

Animating particles



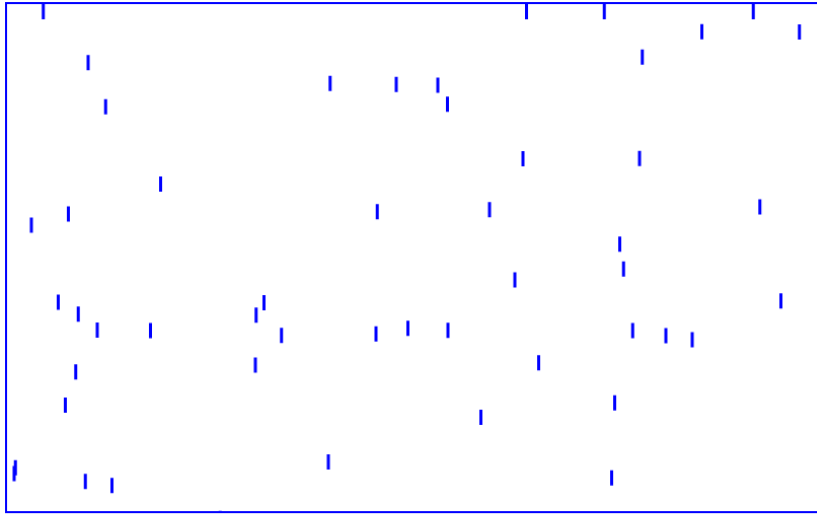
Particle Demo

Animating a particle fountain



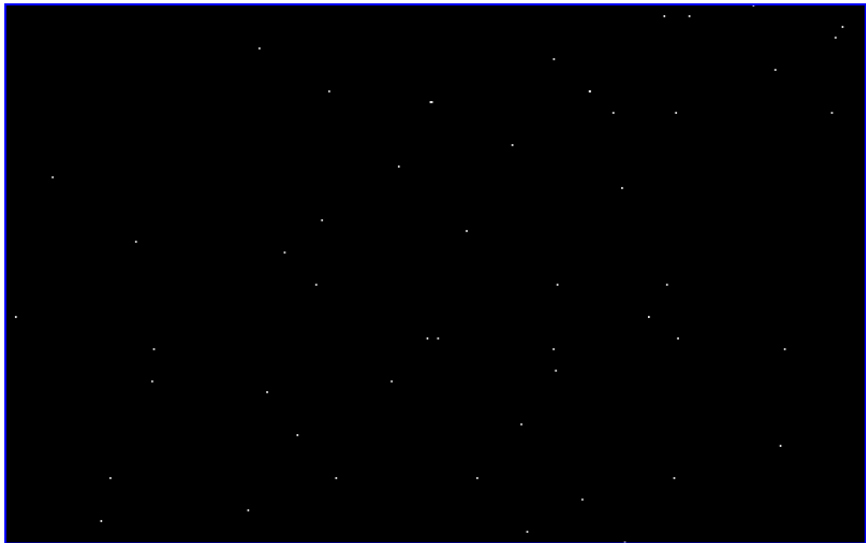
Particle Fountain

Animating the rain effect



Rain

Animating the snow effect

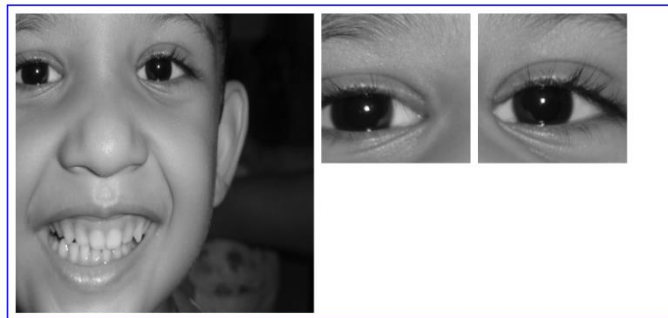


Snow

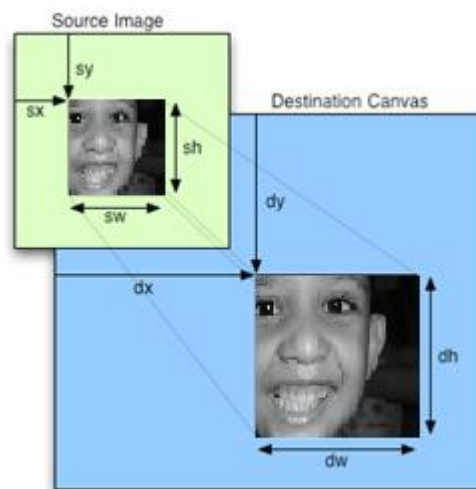
4

Images and Videos

Drawing and cropping an image



An Image



Rendering effects to image



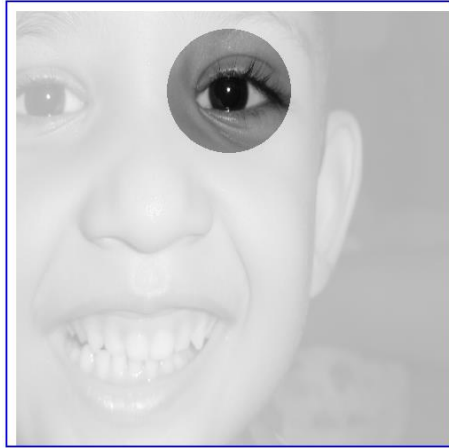
Image Effects-normal,negative,grayscale,red,sepia & noise

Drawing a mirror image



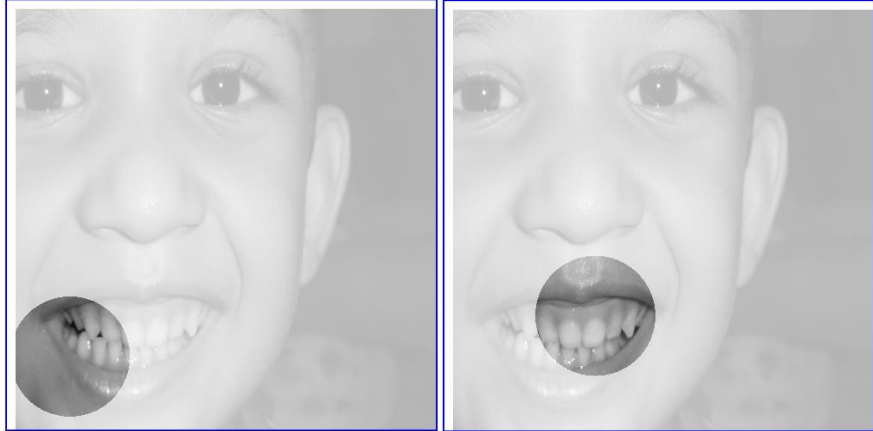
A mirror image

Clipping a path



Clipping

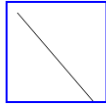
Animated clipping



Clipping

Clipping

Converting canvas to image and back to canvas



Drawing in canvas 1.

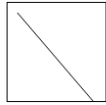


Image saved from canvas 1 and assigned to image element

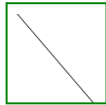


Image saved from canvas 1 and drawn in canvas 2

Working with videos



A Video

Rendering effects to videos



Video Effects (inverted, grayscale and embossed)

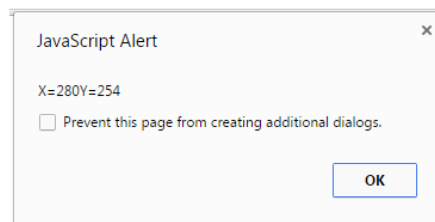
Creating a pixelated image focus



5

Interactivity through Events

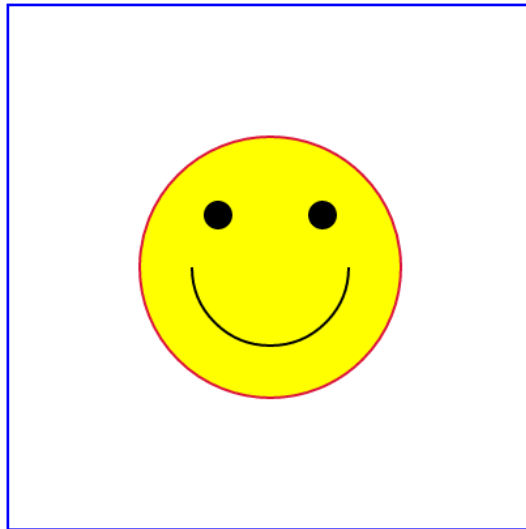
Working with mouse coordinates

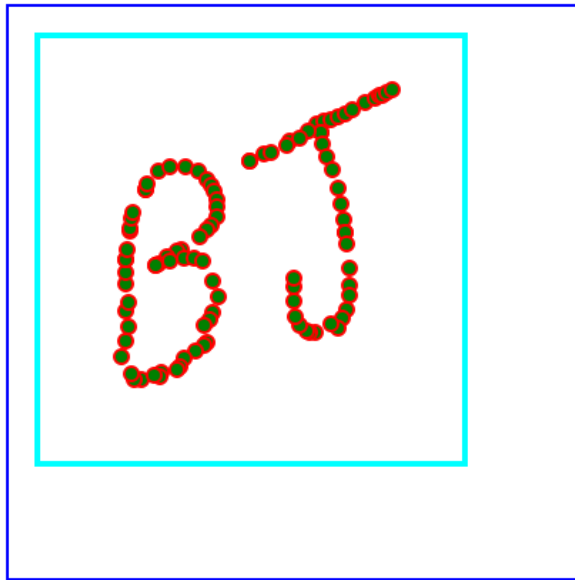


click on the canvas

Making a face smile

I love to smile. Please place the cursor on me





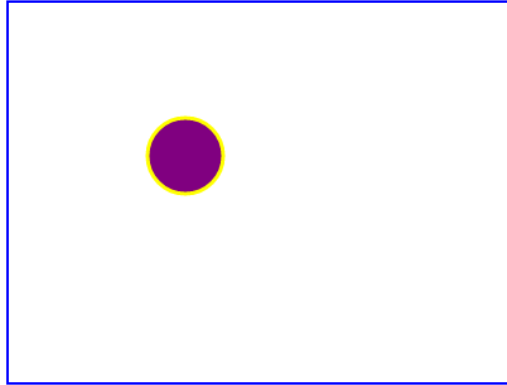
click inside the rectangle to spot

Reset

Simulating car movements



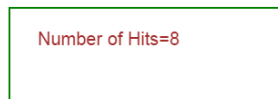
Dragging and dropping



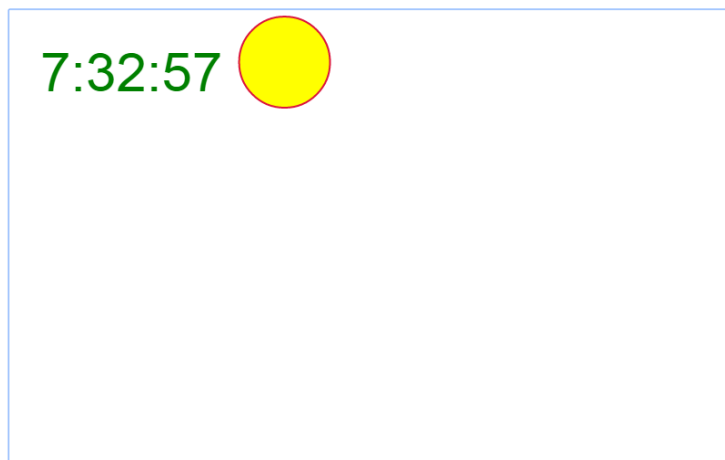
drag and drop the circle

Combining events and animation

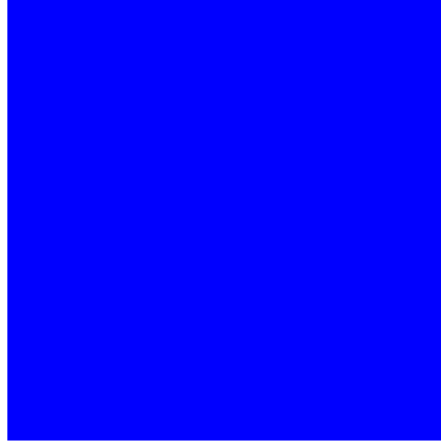
Score Area



click the yellow circle to score



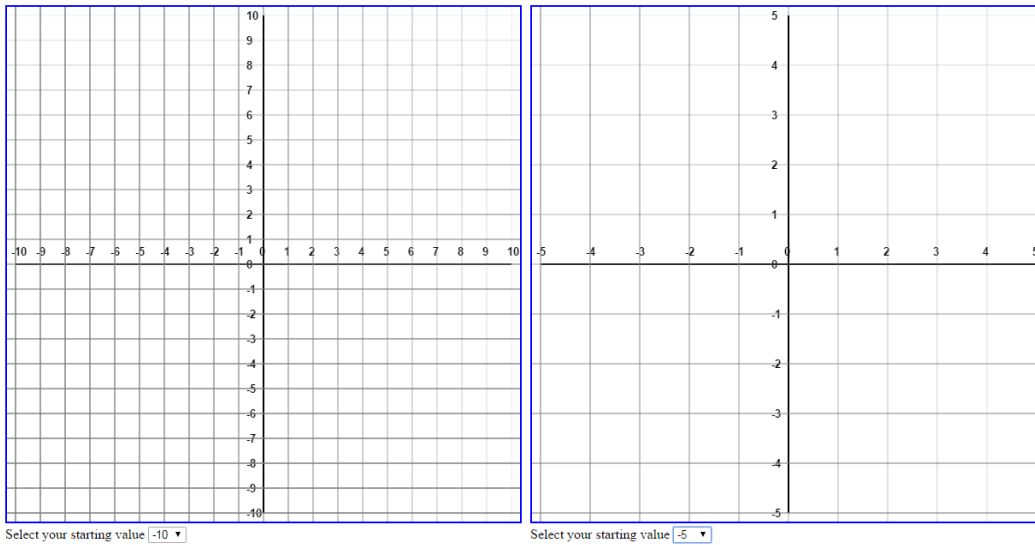
Demonstration a touch event



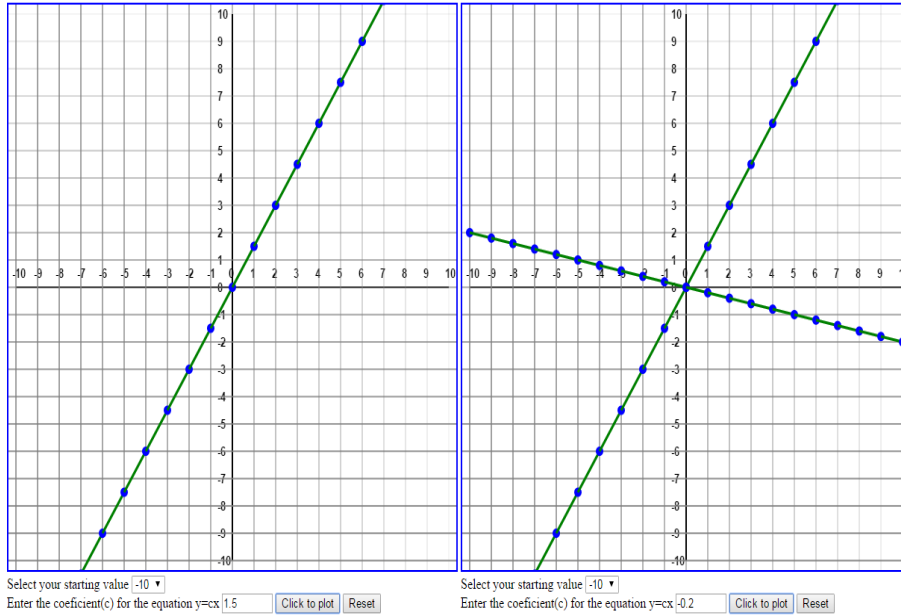
6

Creating Graphs and Charts

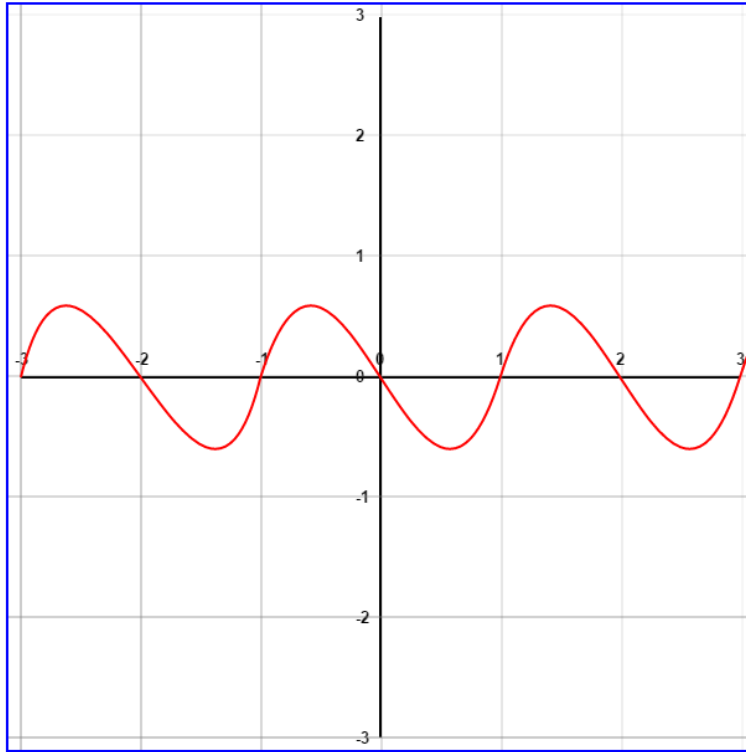
Drawing the axes



Drawing a simple equation



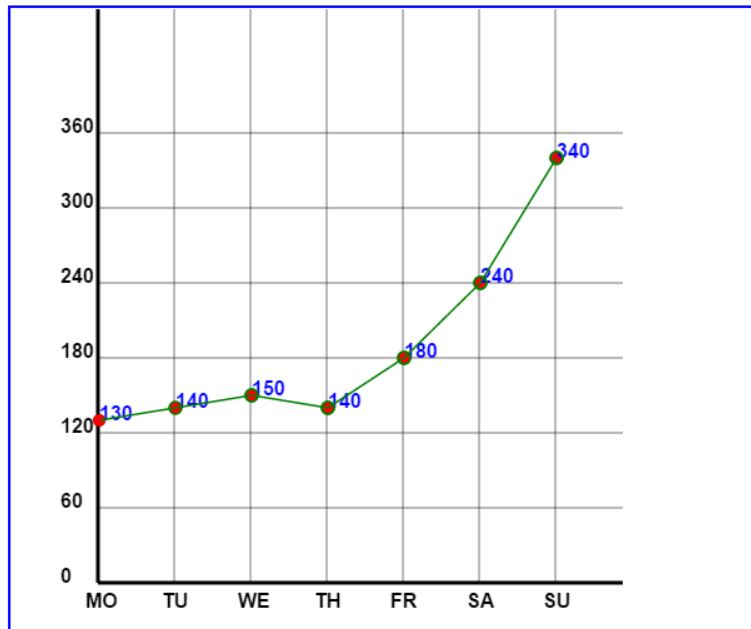
Drawing a sinusoidal wave



Select your starting value

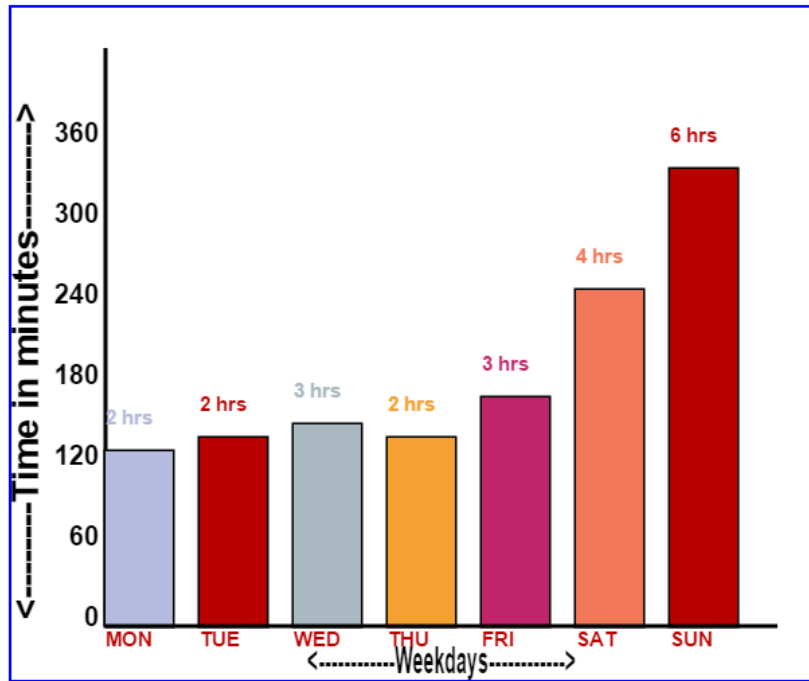
Drawing a line graph

Your WhatsApp Usage



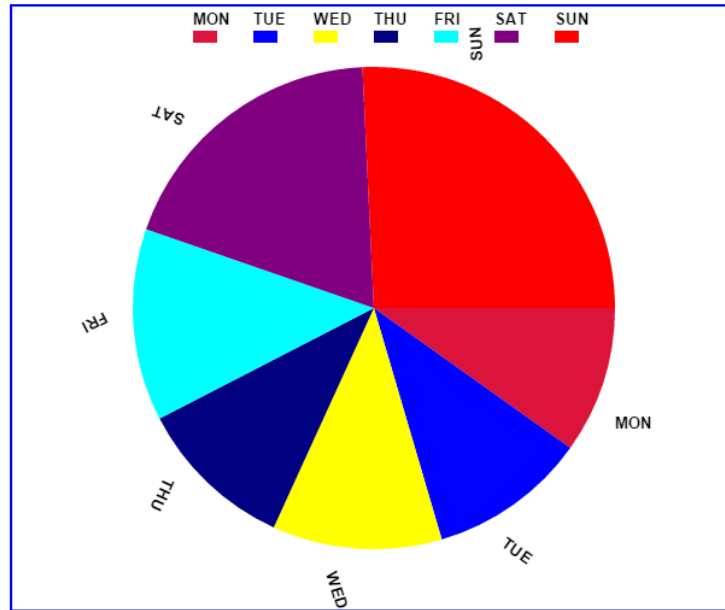
Drawing a bar graph

Your WhatsApp Usage



Drawing a pie chart

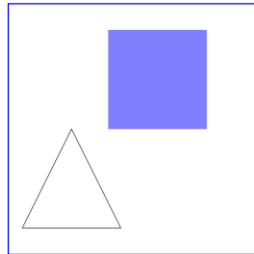
Your WhatsApp Usage



7

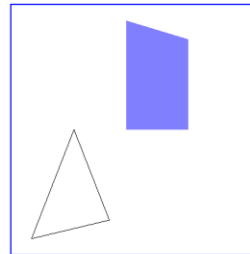
3D Modeling

Rendering 3D objects



3D rotating objects using three.js

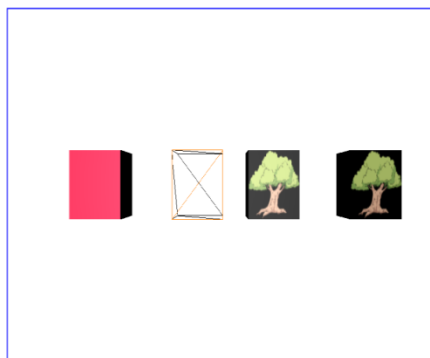
Use arrow keys to make the shapes rotate.
Press Enter key or spacebar to reset



3D rotating objects using three.js

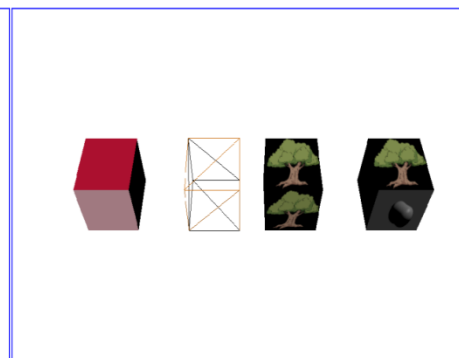
Use arrow keys to make the shapes rotate.
Press Enter key or spacebar to reset

Drawing 3D cubes



3D rotating cubes using three.js

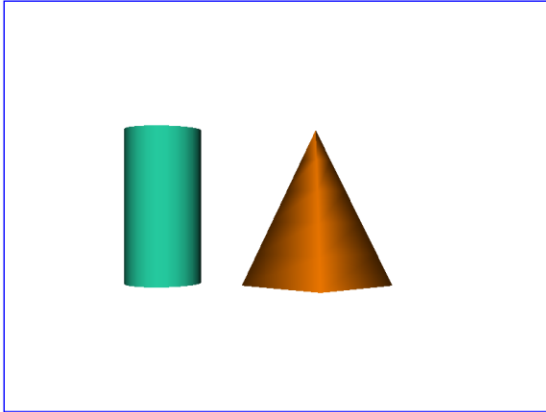
Use arrow keys to make the shapes rotate.
Press Enter key or spacebar to reset



3D rotating cubes using three.js

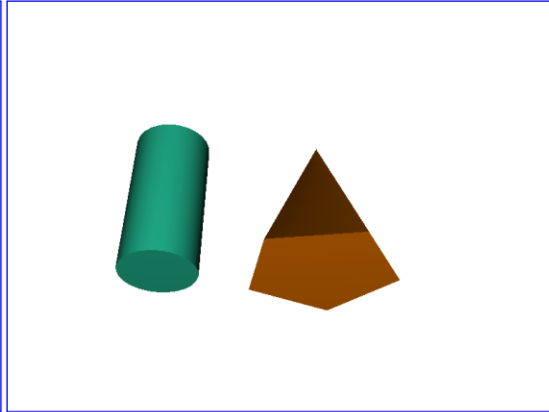
Use arrow keys to make the shapes rotate.
Press Enter key or spacebar to reset

Drawing a 3D cylinder and cone



3D rotating cylinder and cone using three.js

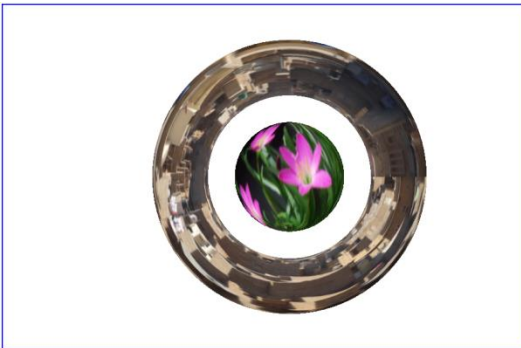
Use arrow keys to make the shapes rotate.
Press Enter key or spacebar to reset



3D rotating cylinder and cone using three.js

Use arrow keys to make the shapes rotate.
Press Enter key or spacebar to reset

Drawing a 3D sphere and torus



3D rotating sphere and doughnut(torus) using three.js

Use arrow keys to make the shapes rotate.
Press Enter key or spacebar to reset



3D rotating sphere and doughnut(torus) using three.js

Use arrow keys to make the shapes rotate.
Press Enter key or spacebar to reset

Drawing 3D text decorated by particles



3D rotating Text using three.js

Use arrow keys to make the text rotate and change the position of particles
Press Enter key or spacebar to reset



3D rotating Text using three.js

Use arrow keys to make the text rotate and change the position of p.
Press Enter key or spacebar to reset

Drawing a panorama



3D rotating sphere using three.js

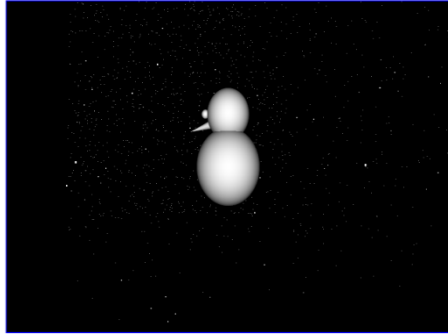
Use arrow keys to move through the picture.
Press Enter key or spacebar to reset



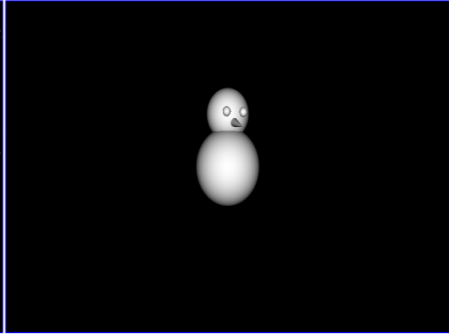
3D rotating sphere using three.js

Use arrow keys to move through the picture.
Press Enter key or spacebar to reset

Drawing a snowman



Snowman



Snowman

\

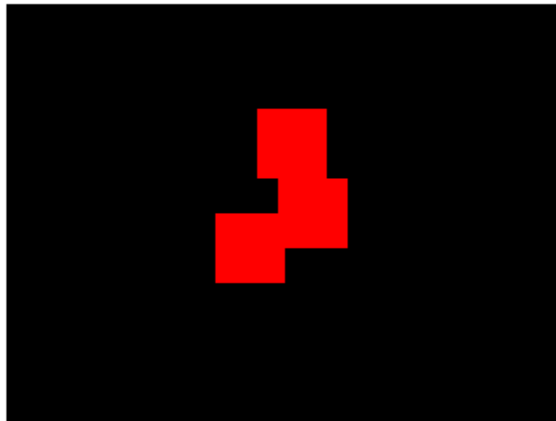
8

Game Development


Understanding the gaming states

```
Fri Jan 22 2016 05:27:13 GMT+0530 (India Standard Time)
```

Drawing on canvas



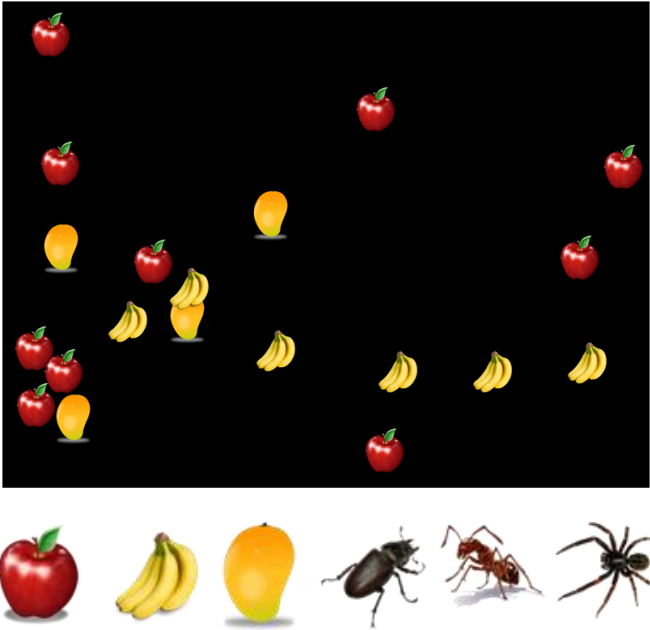
Playing some music



Play Stop

```
Sound: bkgmusic Locked: false  
Is Ready?: true Pending Playback: false  
Decoded: true Decoding: false  
Total Duration: 12.863015873015874 Playing: false  
Time: 8690  
Volume: 0.3 Muted: false  
WebAudio: true Audio: false
```

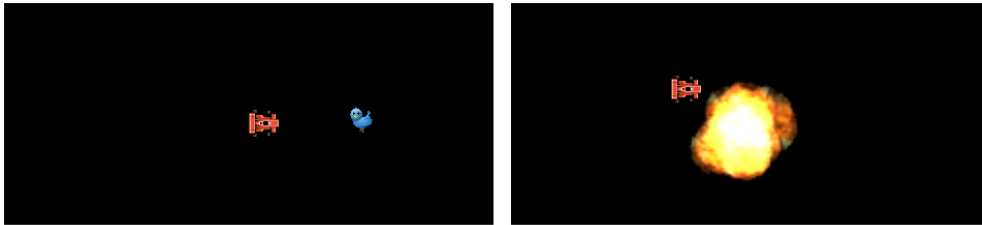
Using sprites from the sprite sheet



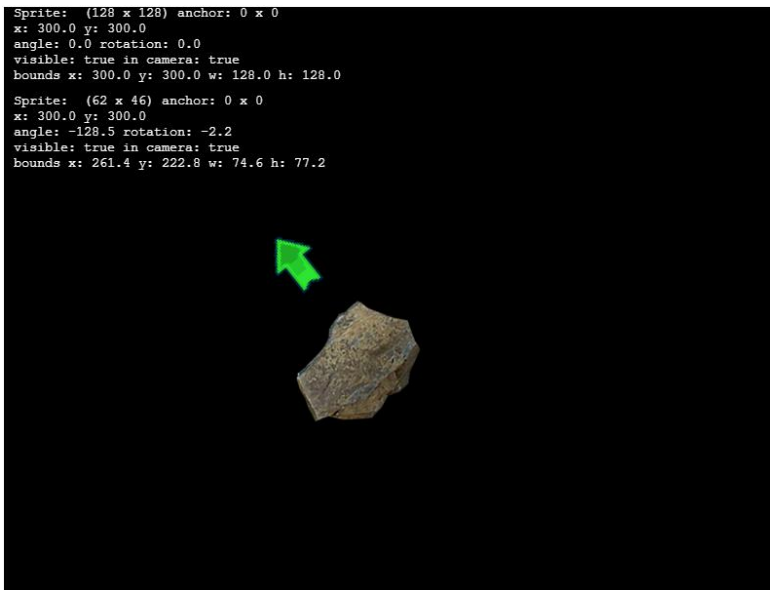
Demonstrating animation



Demonstrating collision



Demonstrating physics



Game 1 – Fruit Basket

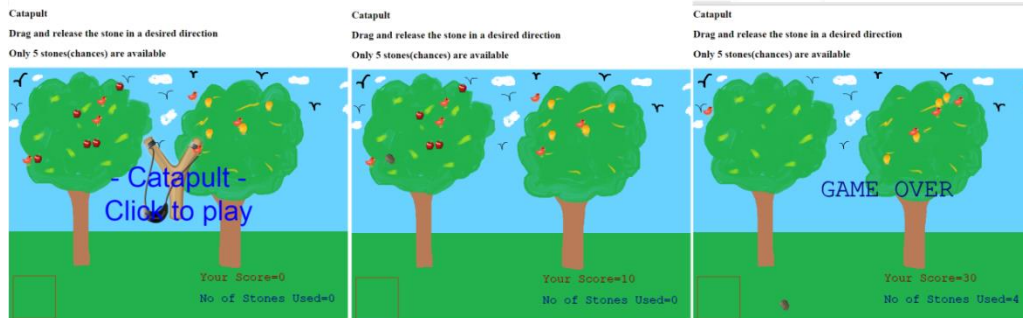
Fruit Basket

Use arrow keys to move left or right

Press ESC whenever you want to stop the game



Game 2 – Catapult



9

Interoperability and Deployment

Styling text and background using CSS

