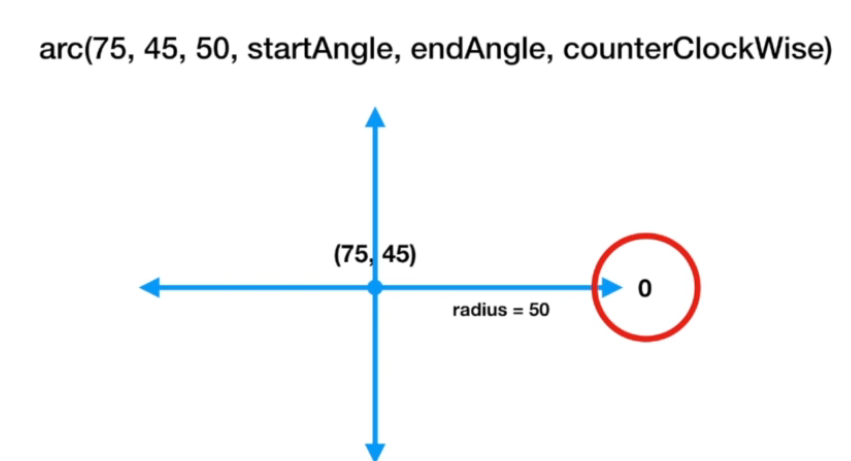
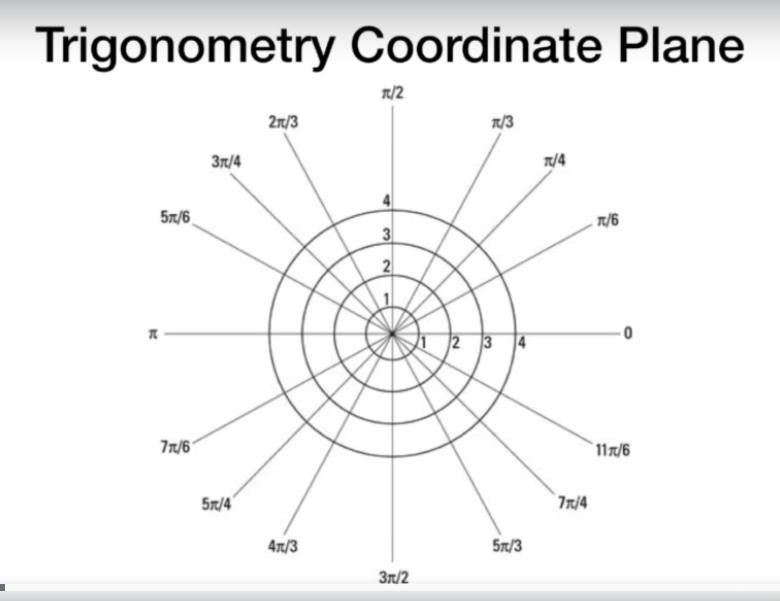
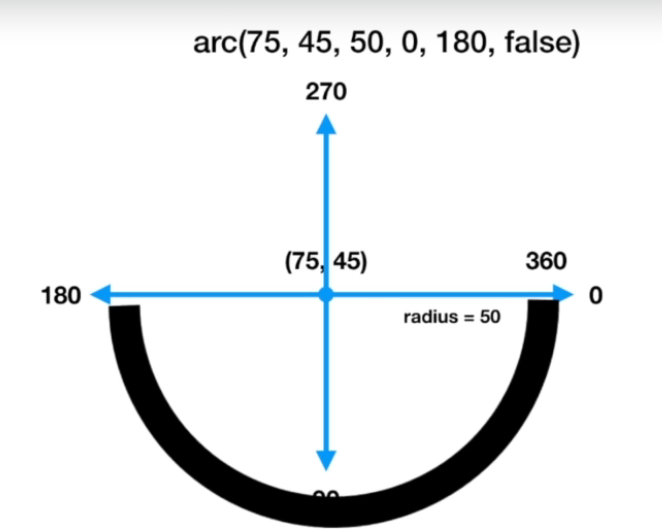
Curves / arc in canvas

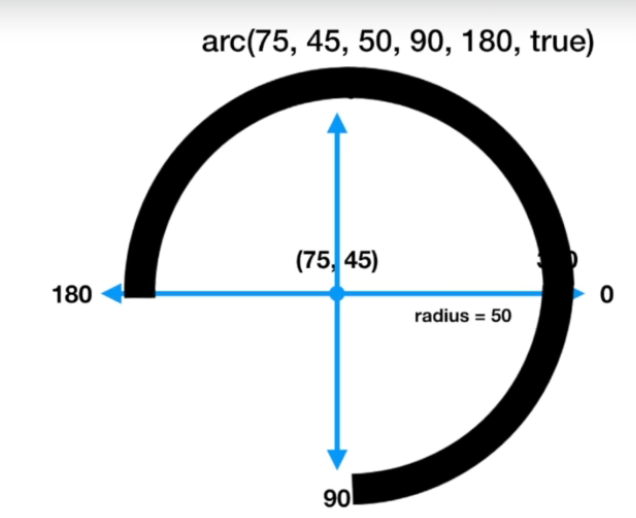


Coordinate system is similar to trignomatry coordinate system and angles are provided in radians

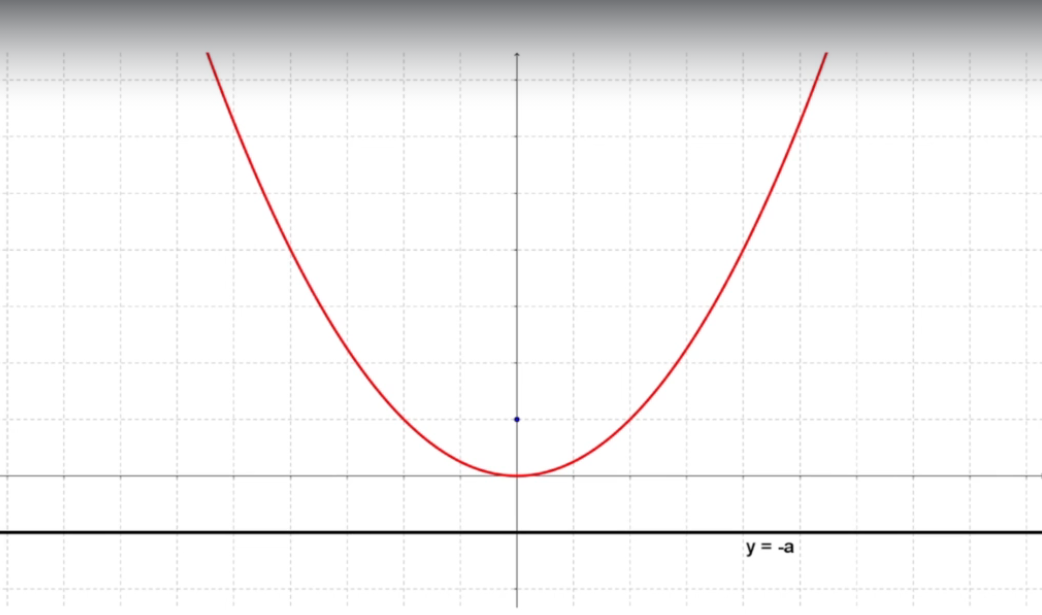


Example

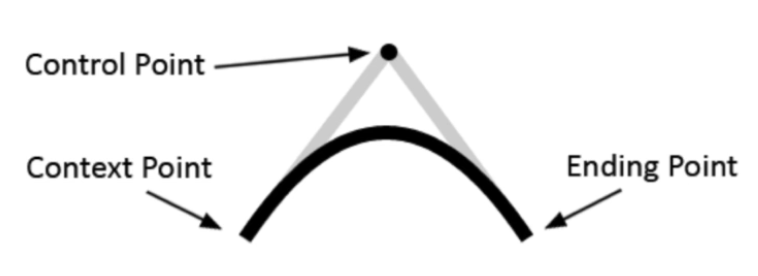


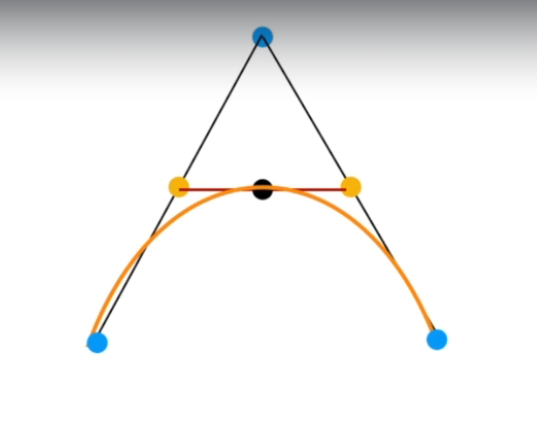


Quadratic curves can also be drawn



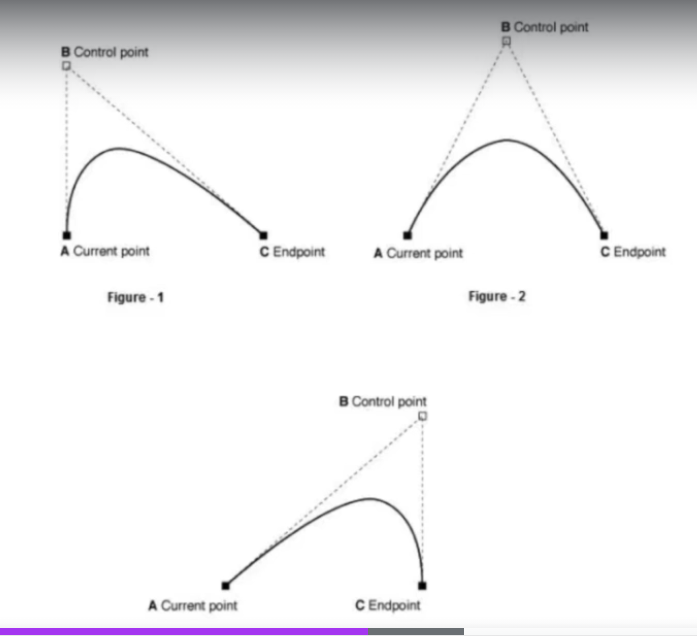
context.quadraticCurveTo(controlX,controlY,endX,endY)





Beginning point and endpoints are there. Begin point is where draw will start. Then we have a control point which is top point above. Canvas will first draw lines from control point. Then from middle of both lines a line is drawn and its middle will become a peak point for quadratic curve.

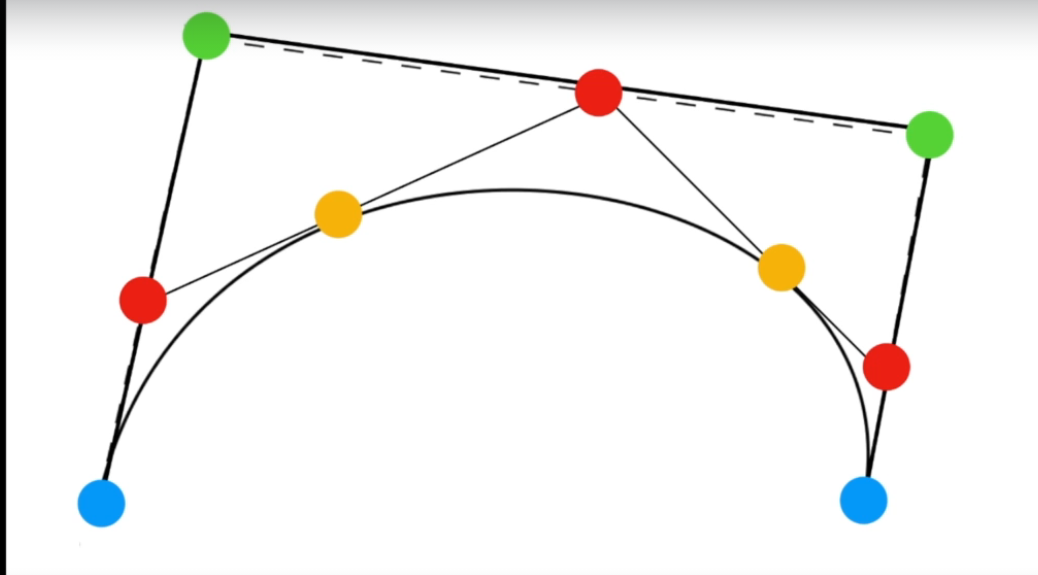
Different variations



Drawing more complex curves



With this we get 2 control points



Blue – start and endpoints

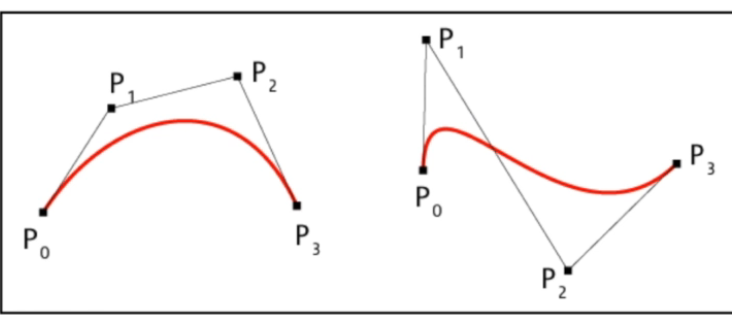
Green – 2 control points

First lines are joined between these 4 points and then middle of these lines is set in Red.

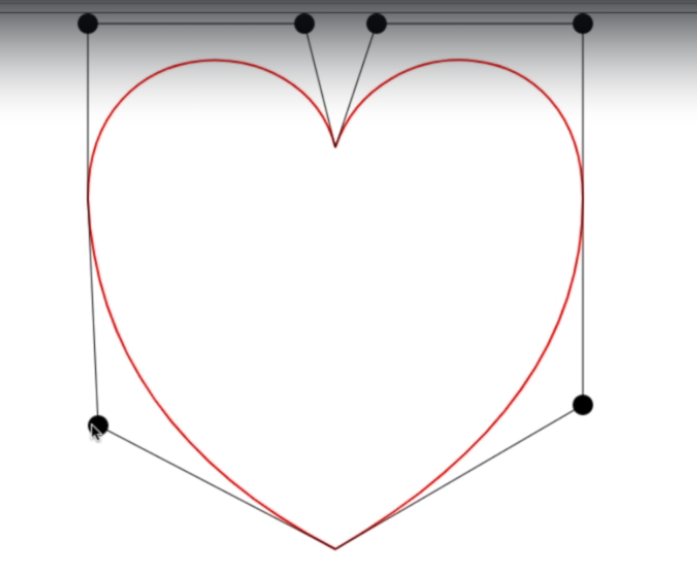
Then lines created between Red points and their middle is set as yellow

Curve then defined with these yellow peak points

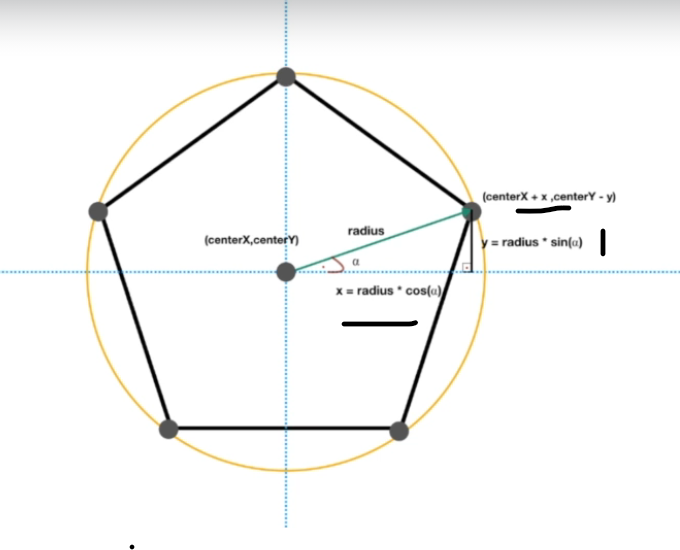
Some variations



Example drawing heart with Bezier and quadratic curves



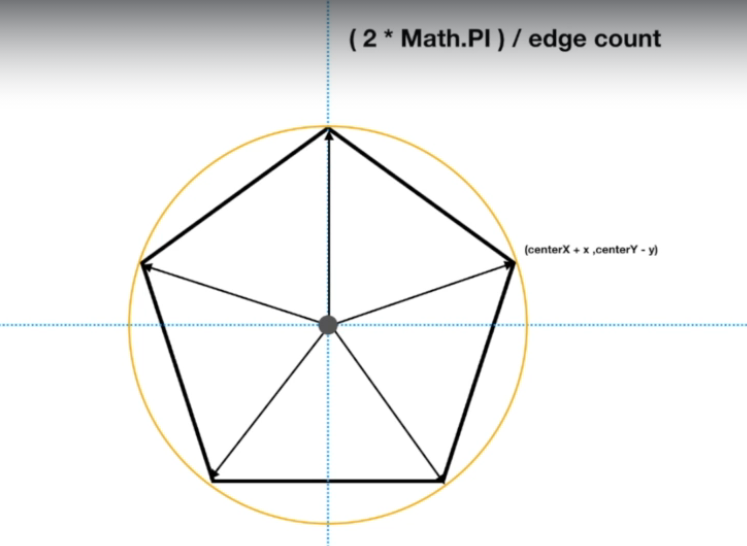
Drawing polygon – with lines its difficult. Using a circle and then coming up with points on the circle using mathematical formulas make it easier



Angle between all the radius lines will be

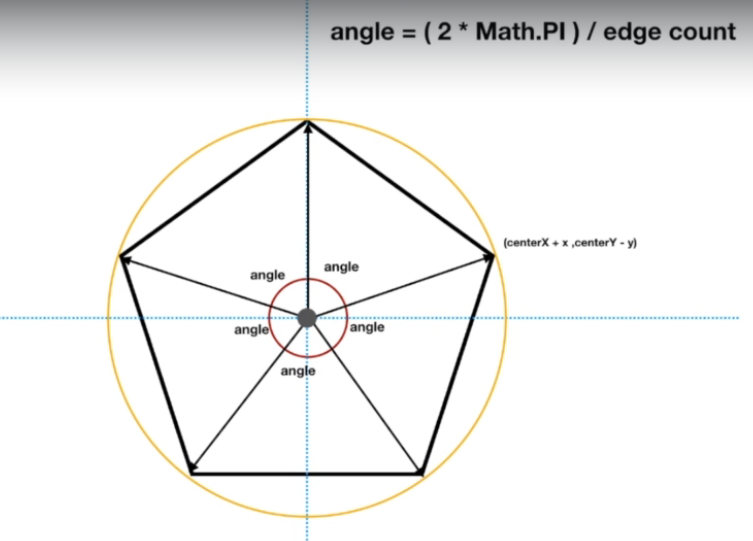


General formula for angle between each line / radius

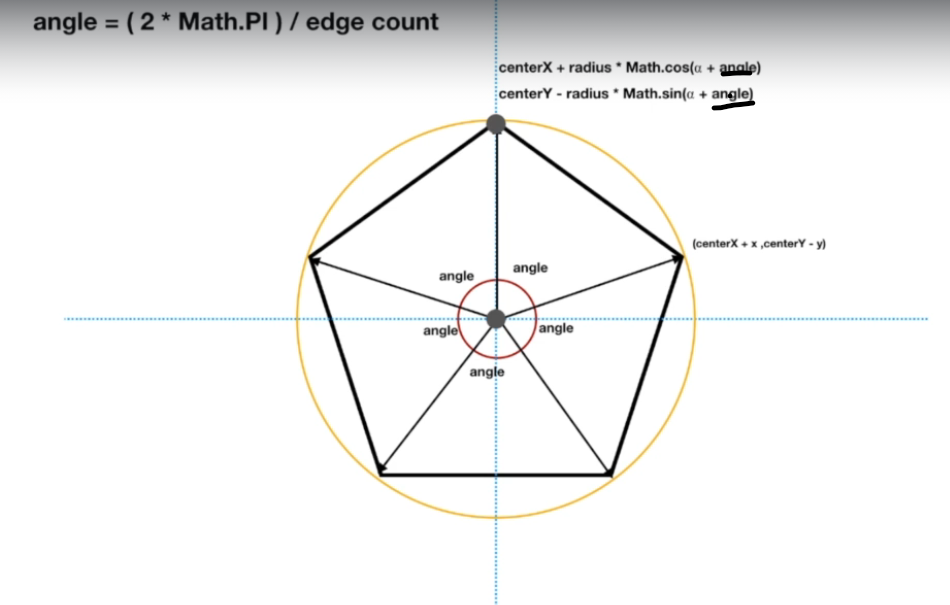


Ie

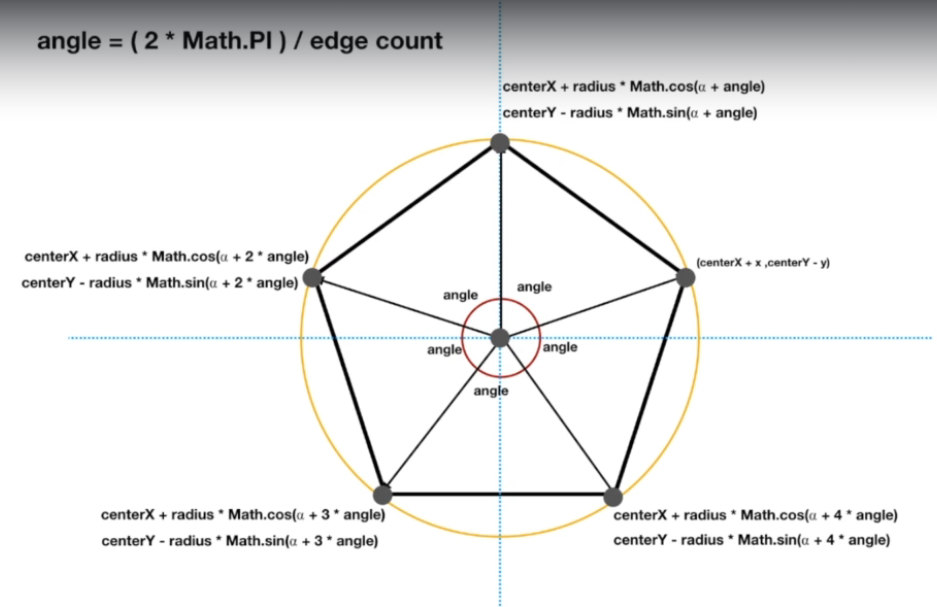




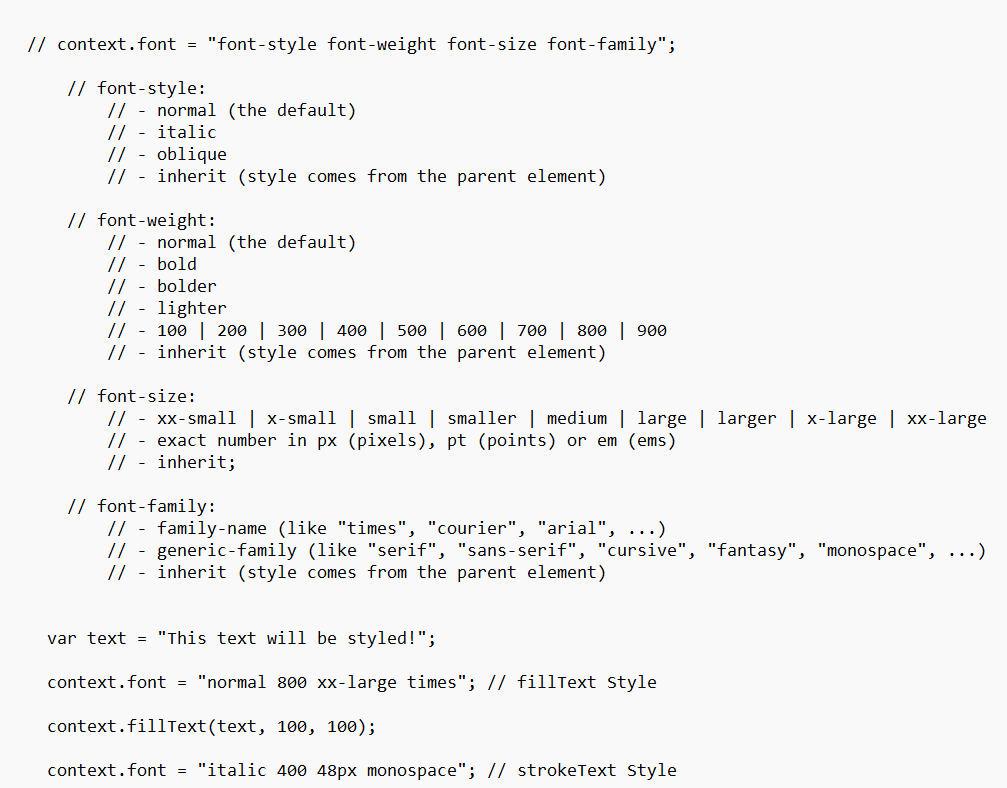
So,



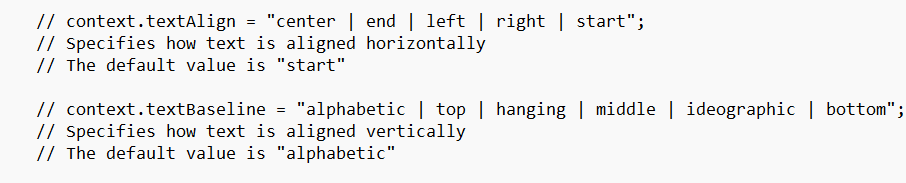
Overall



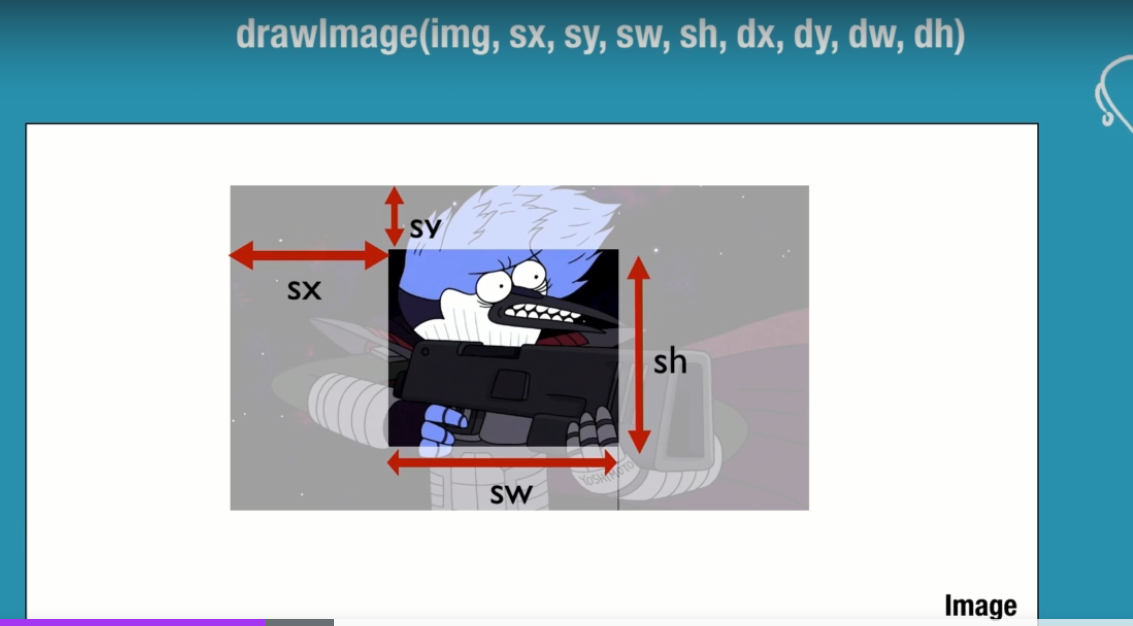
Setting font of Text in canvas examples



Text alignment inside of canvas is based on textAlign for horizontal and textBaseLine for vertical

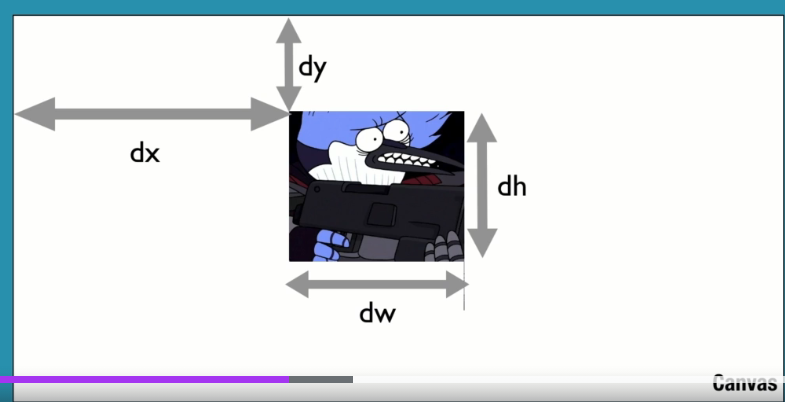


Draw images –



First image will be clipped if we use this method

And then cthe image part that remains, will be displayed based on dx,dy,dw,dh params



Images can be manipulated with their pixels using methods. Image data is received in terms of pixels

