# Canvas & Media

# Basic Shape

```javascript
var
    canvas = document.getElementById('canvas'),
    context = null;

if (canvas && canvas.getContext) {

    context = canvas.getContext('2d');
    context.beginPath();
    context.moveTo(75, 50);
    context.lineTo(75, 100);
    context.lineTo(25, 100);
    context.fill();

}
```

# Circle

```
var
    canvas = document.getElementById('canvas'),
    context = null;

if (Modernizr.canvas) {

    context = canvas.getContext('2d');

    context.beginPath();
    context.arc(
        135,
        120,
        120,
        0,
        Math.PI * 2,
        true);
    context.clip();

    var img = new Image();
    img.onload = function() {
        context.drawImage(img, 0, 0);

        context.lineWidth = 15;
        context.strokeStyle = '#cccccc';
        context.stroke();
    }
    img.src = '../img/fist-pump-baby.jpg';
}
```
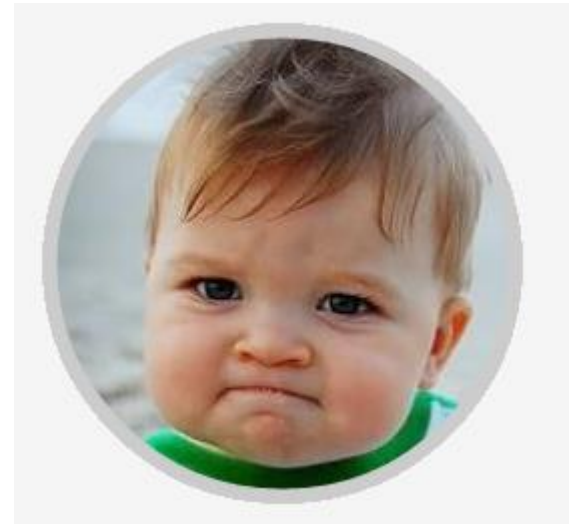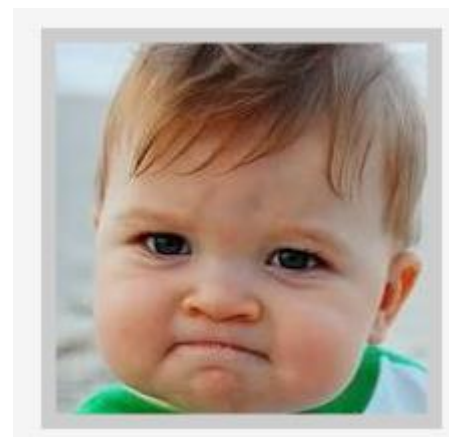
```javascript
var
    canvas = document.getElementById('canvas'),
    context = null,
    x = 40,
    y = 25,
    width = height = 200;

if (Modernizr.canvas) {

    context = canvas.getContext('2d');

    context.beginPath();
    context.rect(x, y, width, height);
    context.clip();

    var img = new Image();
    img.onload = function() {
        context.drawImage(img, 0, 0);
        context.lineWidth = 15;
        context.strokeStyle = '#cccccc';
        context.strokeRect(x, y, width, height);
    }
    img.src = '../img/fist-pump-baby.jpg';
}
```

# Static Chart

```javascript
var
    canvas = document.getElementById('canvas'),
    context = null;

if (Modernizr.canvas) {

    context = canvas.getContext('2d');

    var img = new Image();
    img.onload = function() {

        context.drawImage(img, 0, 0);

        context.beginPath();
        context.moveTo(70, 105);
        context.lineTo(105, 132);
        context.lineTo(142, 250);
        context.lineTo(176, 175);
        context.lineTo(212, 145);
        context.lineTo(245, 197);
        context.lineTo(280, 90);

        context.stroke();
    }
    img.src = '../img/chart-background.png';
}
```
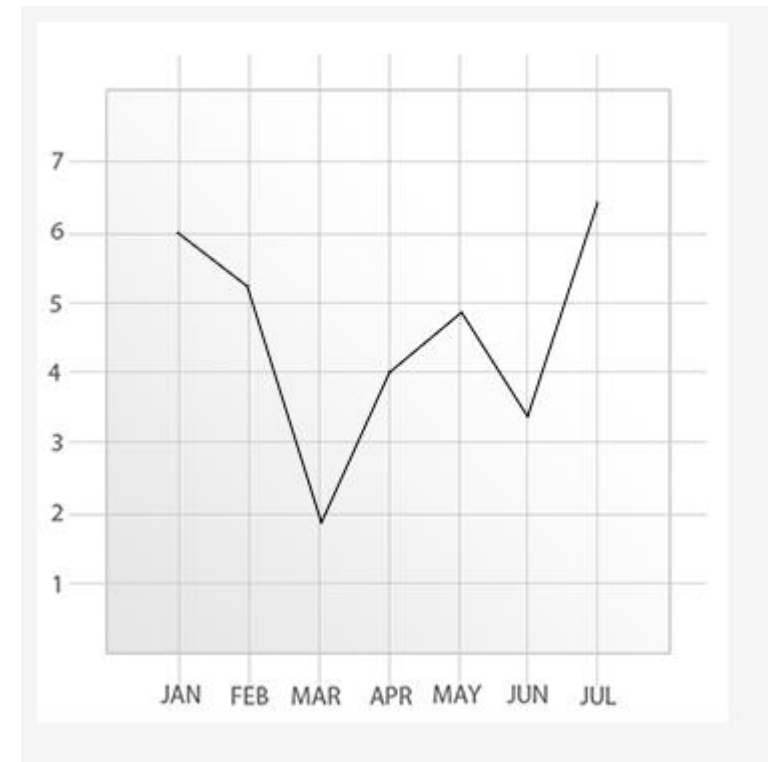
# Dynamic Chart

```javascript
var chartData = [
    { month:  70, perf: 125 },
    { month: 105, perf: 280 },
    { month: 140, perf: 115 },
    { month: 175, perf:  45 },
    { month: 210, perf: 200 },
    { month: 245, perf: 245 },
    { month: 280, perf: 177 }],

    canvas,
    context,
    index = 0,

    drawSegment = function() {
        var x1, y1, x2, y2;

        x1 = chartData[index].month;
        y1 = chartData[index].perf;

        x2 = chartData[index + 1].month;
        y2 = chartData[index + 1].perf;

        context.beginPath();
        context.moveTo(x1, y1);
        context.lineTo(x2, y2);
        context.stroke();
        index++;
    };

if (Modernizr.canvas) {

    canvas = document.getElementById('canvas');
    context = canvas.getContext('2d');

    var bkgImg = new Image();
    bkgImg.onload = function() {
```

```javascript
        context.drawImage(bkgImg, 0, 0);
        drawSegment();
    }
    bkgImg.src = '../img/chart-background.png';

    context.strokeStyle = 'rgb(31, 172, 242)';
    context.lineWidth = 4;
    context.lineCap = 'round';

    var frame = setInterval(function() {
        drawSegment();

        if (!(index < chartData.length - 1)) {
            clearInterval(frame);
        }
    }, 750);
}
```

# Dynamic Chart