

Introduction to Vectors

- Vectors added to Android in API 21

Features

- **Sharp (High Quality)**
- **Scalable**
- **Small in size**

Concept

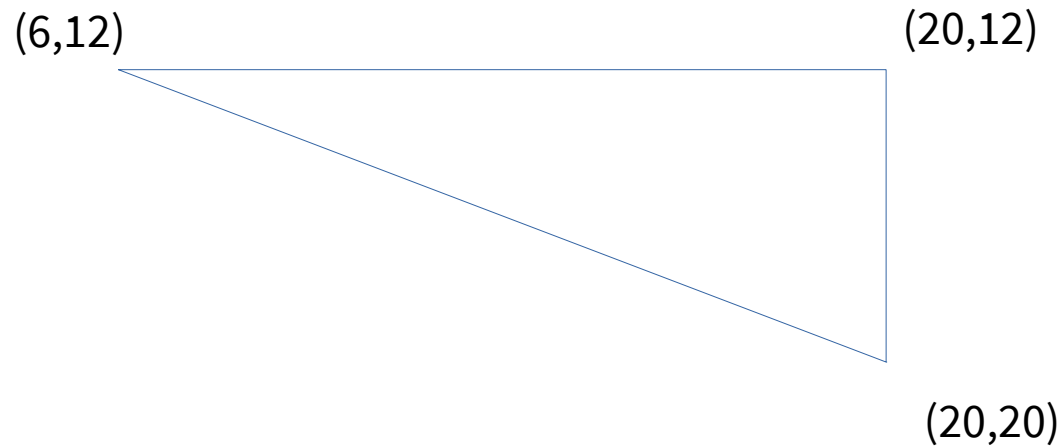
Similar to SVG on the Web

Drawing Commands

- | | |
|--------|-------|
| - M | Move |
| - C, Q | Curve |
| - L | Line |
| - Z | Close |

Example Path

pathData="M6,12 L20,12 L20,20 Z"



Important Attributes of Vectors

Viewport Width = Width of canvas

Viewport Height = Height of canvas

Stroke color = color of drawing stroke

Stroke width = width of the drawing stroke

Fill Color = Color used to fill the paths

Groups

Paths can be grouped together for better control of several paths.

```
<vector>
```

```
  <group>
```

```
    <path android:pathData="..." />
```

```
    <path android:pathData="...." />
```

```
  </group>
```

```
</vector>
```

Caveats

- Keep vectors below 200x200 in size for better performance
- Vectors are ideal for icons, but not for complex and human pictures

What You Will Learn In This Section

- **Android's vector support**
- **Vector tools: Inkscape, Shape Shifter**
- **Learn different animation techniques for vectors in Android**