

# Tapestry5HowToCreatePieChartsInAPage

An example of dynamic charts inside a page(this can also be used for other dynamic images).

(This is similar to [Tapestry5HowToCreateASimpleGraphComponent](#))

add this to your pom.xml under dependencies:

```
<dependency>
    <groupId>jfree</groupId>
    <artifactId>jfreechart</artifactId>
    <version>1.0.5</version>
</dependency>
```

inject ComponentResources, and TypeCoercer

```
@Inject
private ComponentResources _resources;

@Inject
private TypeCoercer _coercer;
```

add the method that generates an ActionLink URL for chart event:

```
public Link getChart3(){
    return _resources.createActionLink("chart", false, new Object[]{"600","400","aa","39","bb","12","cc","12","dd","4"});
}
```

add action listener for that chart event:

```
public StreamResponse onChart(final int width, final int height, Object ...rest){
    DefaultKeyedValues values = new DefaultKeyedValues();
    for (int i = 3; i < rest.length; i+=2){
        values.addValue(rest[i-1].toString(), _coercer.coerce(rest[i], Number.class));
    }
    PieDataset pieDataset = new DefaultPieDataset(values);

    PiePlot3D plot = new PiePlot3D(pieDataset);
    plot.setForegroundAlpha(0.5f);
    plot.setDepthFactor(0.1);
    plot.setCircular(true);

    final JFreeChart chart = new JFreeChart(plot);

    return new StreamResponse(){
        public String getContentType(){
            return "image/jpeg";
        }
        public InputStream getStream() throws IOException {
            BufferedImage image = chart.createBufferedImage(width, height);
            ByteArrayOutputStream byteArray = new ByteArrayOutputStream() ;
            ChartUtilities.writeBufferedImageAsJPEG(byteArray, image) ;
            return new ByteArrayInputStream(byteArray.toByteArray());
        }
        public void prepareResponse(Response response){}
    };
}
```

add following code to your page template

```

```