

Charts for Visual Effect

MAKING DATA SING



Glen Smith

AUSSIE STUNT PROGRAMMER

@glen_a_smith blogs.bytecode.com.au/glen



What You'll Learn



Overview



Chart Configuration

Backing Model

Pie, Donut and PolarArea Charts

Multiseries Bar, Line and Radar Charts

Mixed Chart Types

Interactive Charts

Live Refresh



Getting Configured



Your First Pie Chart



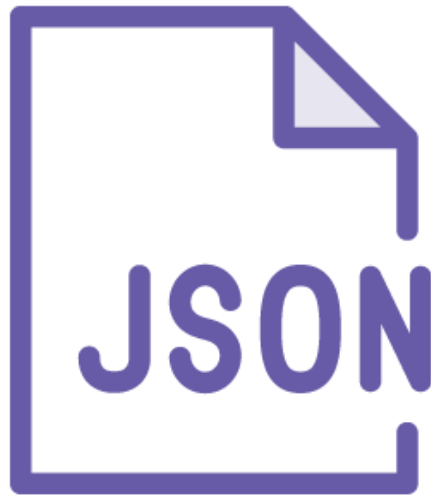
Pie Data Models



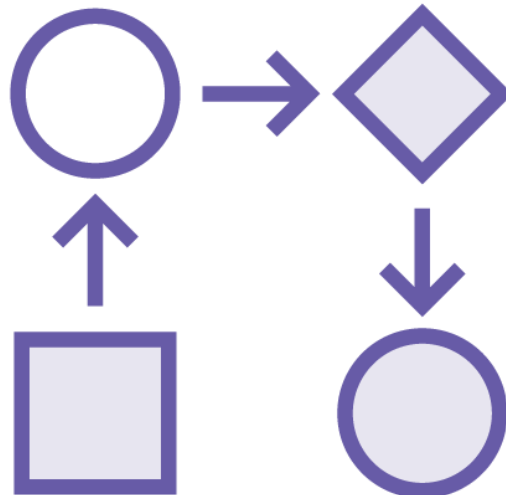
Working with Dynamic Data



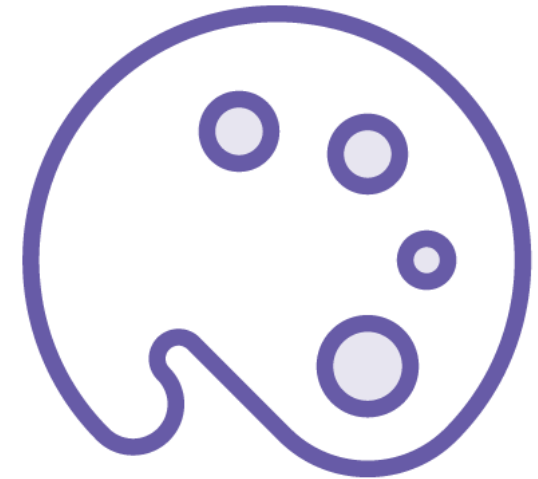
Typical Chart Creation Flow



Data Arrives
Your backend data
arrives as a business
object



Transform to Chart
Write code to perform
the transformations to
chart format



Generate Colors
Colors need to be
assigned for each data
series



Working with Real Data

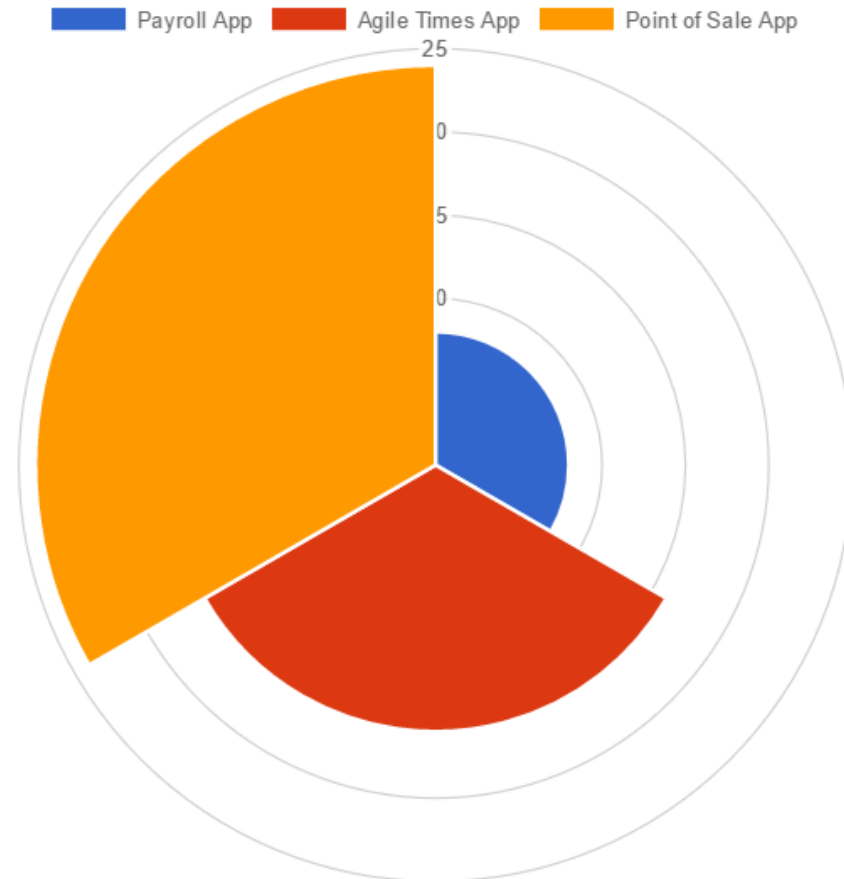


Polar Area Charts



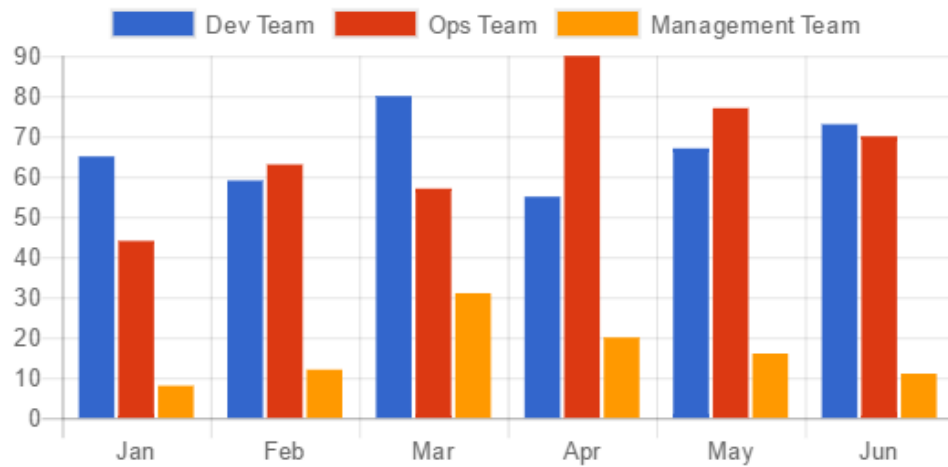
How Polar Area Charts Work

Hours By Project

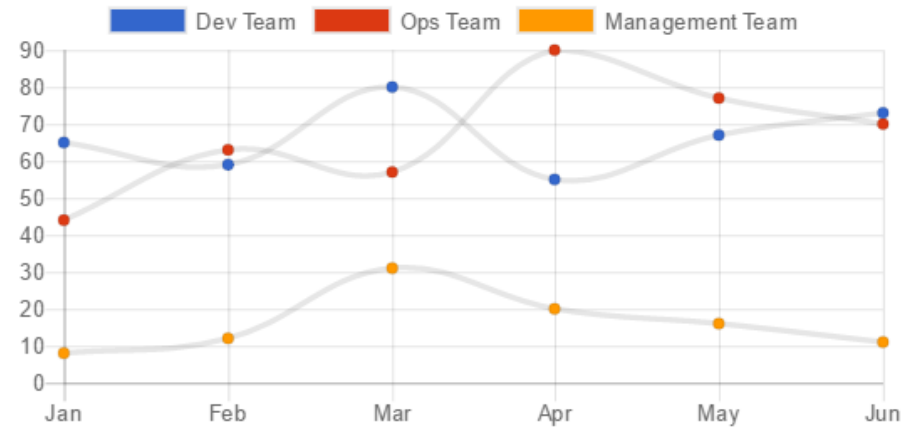


Multiseries Data

Hours By Team (Bar)



Hours By Team (Line)

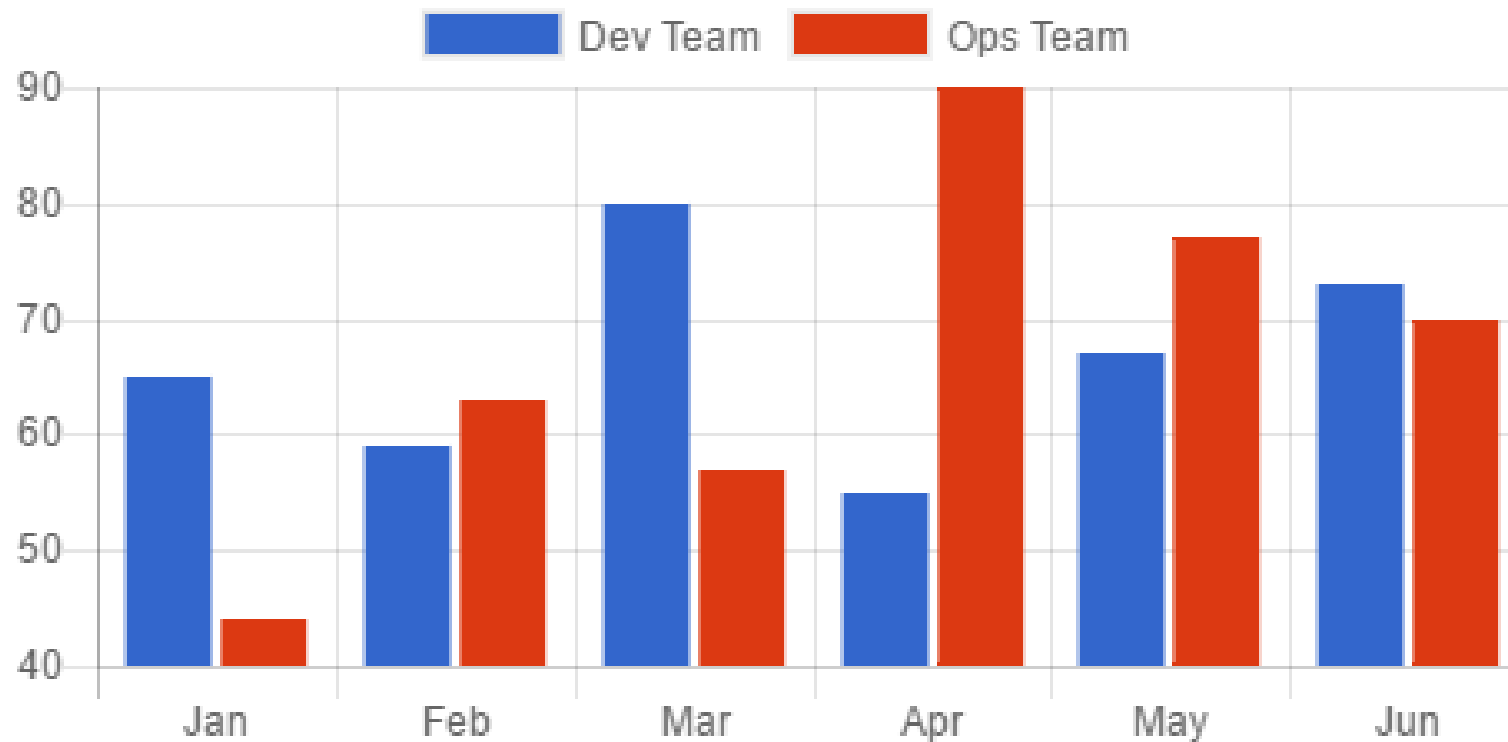


Bar Charts



Multiseries Bar Chart in Action

Hours By Team (bar)



Line & Radar Charts

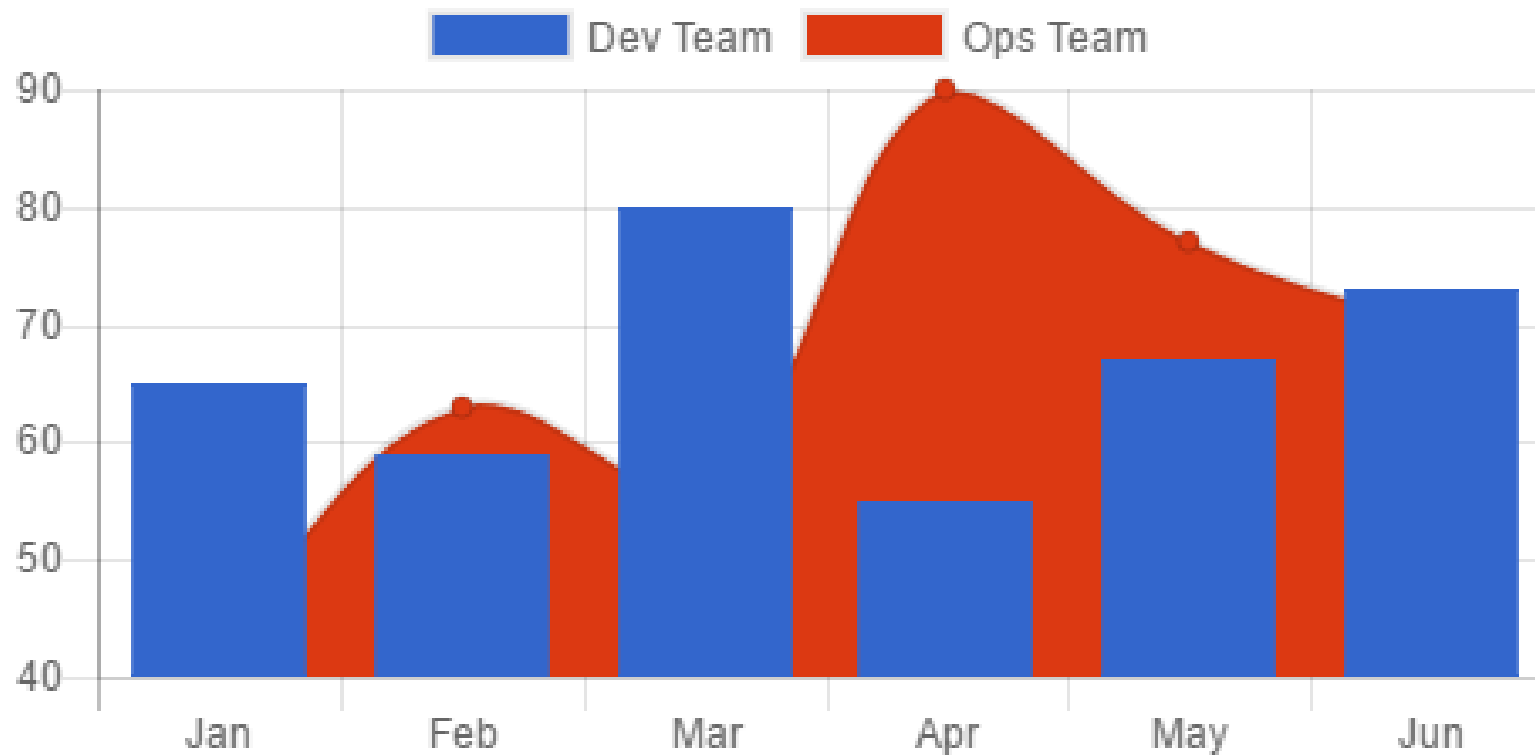


Mixing Chart Types



Mixed Charts in Action

Hours By Team (mixed)



Interactive Charting



So far...

```
<p-chart type="bar"  
  [data]="hoursByTeamChartMixedData">  
</p-chart>
```



Adding a onDataSelect Handler

```
<p-chart type="bar"  
  [data]="hoursByTeamChartMixedData"  
  (onDataSelect)="onDataSelect($event)" >  
</p-chart>
```



Deeper Customisation



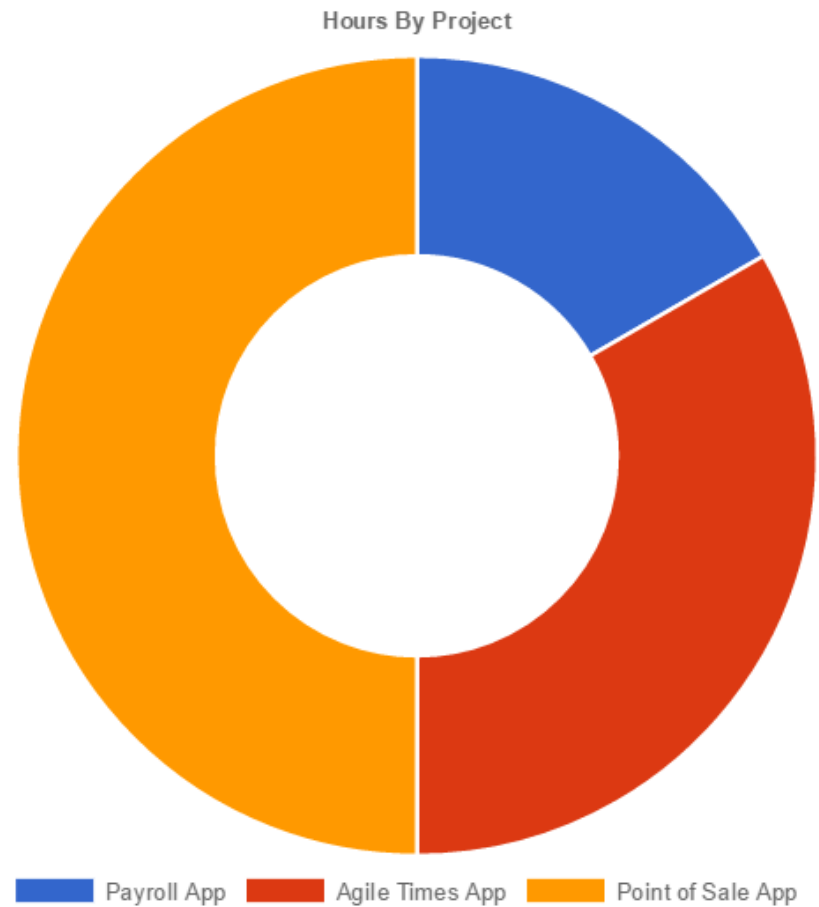
Activate Customisations

```
<p-chart type="doughnut"  
  [data]="hoursByProjectChartData"  
  [options]="chartOptions">  
</p-chart>
```



Custom Titles & Legends

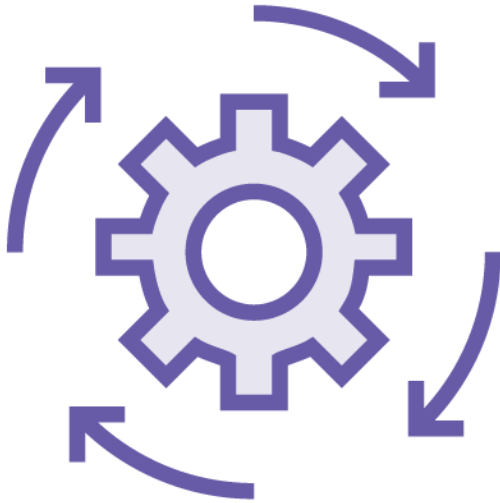
Hours By Project



Realtime Charting



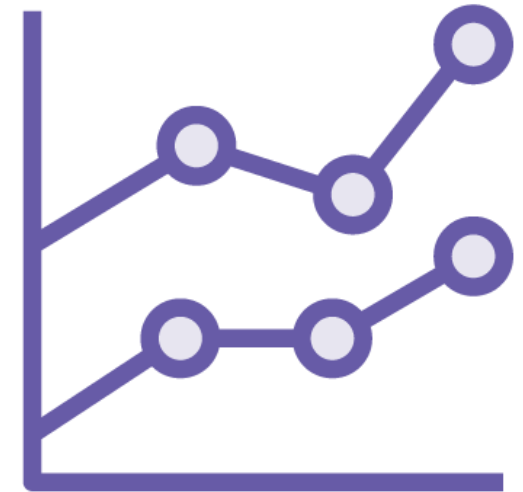
Implementing Change Detection



Async Data Arrives
(Observable)



Developer gets handle
to Chart object



Trigger Chart refresh()

Summary



Configuring Charts

Charting Tag Basics

Implementing Backing Models

Exploring Common Charts

Going Interactive

Advanced Configuration Options

Charting in Realtime

