

User Customizations, Data Export, and Startup Animations



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Demo: User-driven customizations



Exporting Data



Export Options

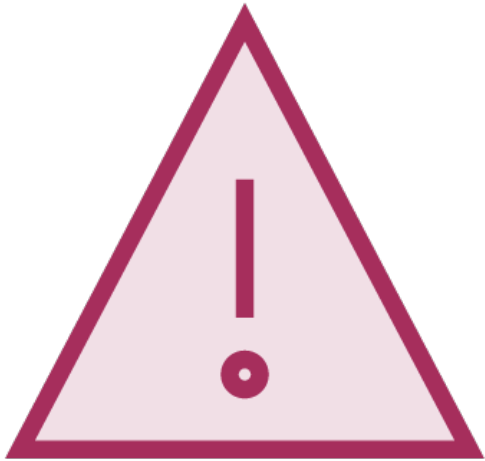
CSV File

HTML Table (new tab)

iGoogle gadget

IFRAME tag





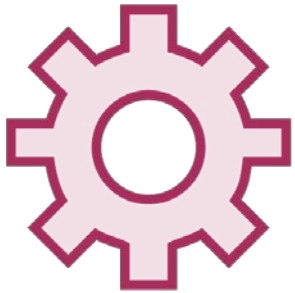
Restrictions:

- No data from DataTable or DataView
- Can only pull data from Google Sheets

Demo: Coding the export toolbar



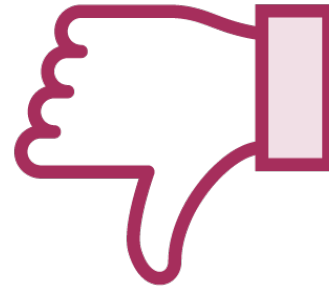
Using the Toolbar



Disconnected
Utility Object



Multiple Menu
Items



Labels Aren't
Configurable



Combine with
Other Controls

Demo: Coding the export toolbar with another control



Startup Animations



Startup Animation Support

No Startup Animation

Pie Chart
Table Chart
Geo Chart
Timeline
Others

Has Startup Animation

Area Chart
Bar Chart
Column Chart
Line Chart
Others



Animation Object

```
var options = {  
    animation: {  
        startup: true,  
        duration: 1000  
    }  
};
```



Beware of Column Roles

Roles That Work

- Domain (implicit, X-axis)
- Data (implicit, Y-axis)

Roles That Don't Work

- Tooltip
- Annotation
- Interval values
- Emphasis/De-emphasis
- Color & Drawing styles



Demo: Coding the startup animations



Course Conclusion



Further Study



- More Chart Types
- Create Your Own Chart Type
- Detailed Customizations
- Overlays and Crosshairs

