Custom Visualizations
How to build custom chart plugins with D3, Google Charts, and Highcharts
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Key Technology Investment Areas
Agile enterprise analytics that span all ecosystems and users

Simple UX
Smart Data Discovery
Easy Cloud deployment
Predictive Analytics
Collaboration
Consume IT-built analytic applications

Agility for Business

Build enterprise apps using RSDs
Optimized for Real time and Big Data
Data modeling and governance with Project Schema
Simplified deployment and upgrade
Hybrid cloud and on premise

Enterprise scale and governance

Integrate with best of breed for advanced analytics
Embrace Hadoop ecosystem
Enable 3rd party use of MicroStrategy data
Enable new scenarios - real-time and big data
Connectivity to a variety of data assets

Open to the ecosystem
MicroStrategy 10 is Built as an **Open Architecture**

A comprehensive set of APIs allows you to integrate, embed, and extend the functionality of your existing investments

MicroStrategy Community for documentation, samples, etc.: [https://developer.microstrategy.com](https://developer.microstrategy.com)
Process of Building a Custom Visualization

1. Pick a JavaScript visualization
2. Connect with MSTR Data
3. Enhance with custom visualization APIs
4. Deploy plugin
Pick a Visualization
Many open source and professional options

https://developers.google.com/chart/
Connect with MSTR Data
Use the MSTR framework APIs to connect with MSTR Data

- Get data definition and data
- Transform the data
- Push to your visualization code
Create a custom visualization using the visualization builder
Custom Visualization APIs
Make your visualization fully integrated with MSTR features

• Custom drop zones
• Selectors
• Custom properties
• Thresholds
• Color palettes

https://lw.microstrategy.com/msdz/MSDL/GARelease_Current/docs/projects/VisSDK/Content/topics/HTML5/API_Reference.htm
Custom Visualization APIs

Custom drop zones

• Each drop zone can have a specific purpose
• Specify the name, tooltip, object type allowed, and capacity
• Create rules
Custom Visualization APIs

Selectors

• Use the visualization as a filter
• A filter can filter or highlight
Custom Visualization APIs

Custom Properties

• Allow the user to customize the look and behavior of the visualization

• Expose the visualization parameters through MicroStrategy custom properties

• Vast variety of widget available
Custom Visualization APIs

Thresholds

• Assign a specific color to a range of values
Custom Visualization APIs

Color palette

- Populate the chart with your color palette
Deploy/Upload Your Plugin
One plugin reusable everywhere

MSTR Web
MSTR Library
MSTR Mobile server
MSTR Desktop
MSTR Workstation
Upload An Existing Custom Visualization From Our Gallery

https://community.microstrategy.com/s/gallery