d3.geo plugin

https://github.com/d3/d3-plugins/tree/master/geo

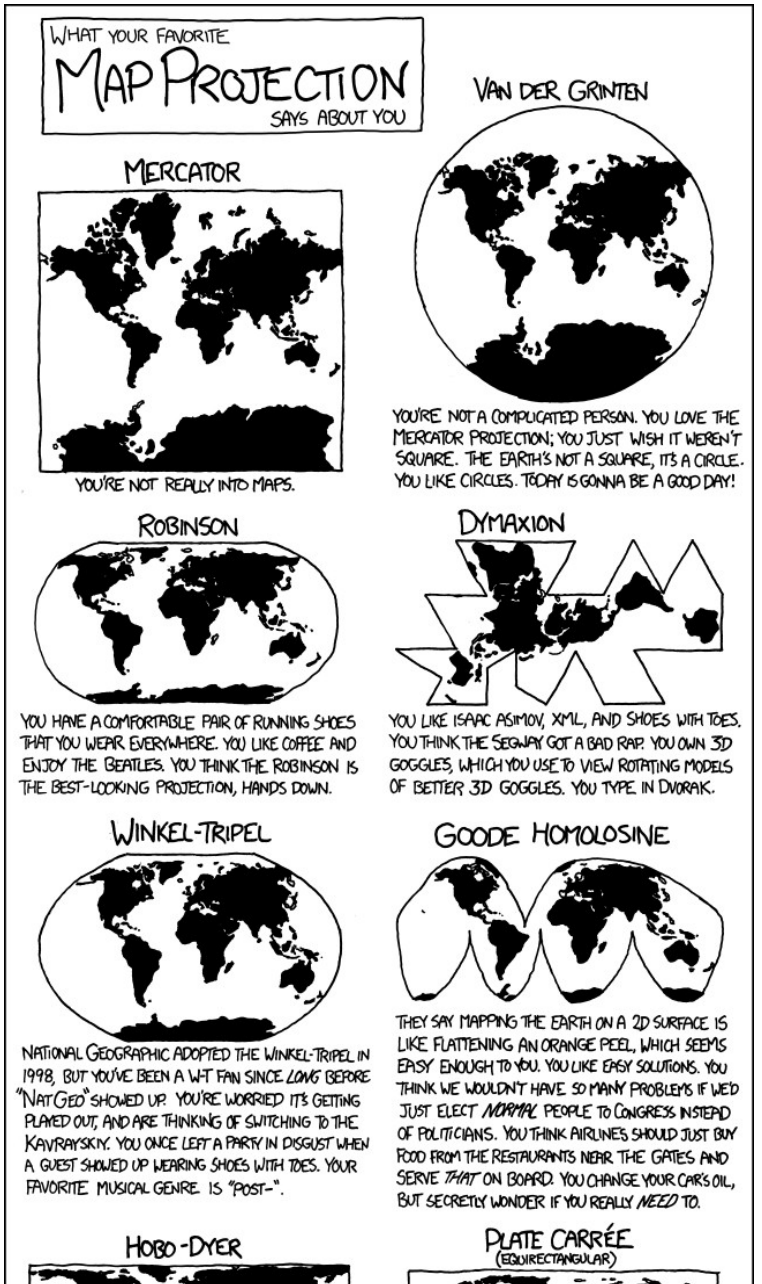
- New projections, define your own!
- Rotation for spinny globes
- Geographic clipping
- Graticule geometry
- Adaptive Resampling

- Will be part of d3.v3 core, except for exotic projections

d3.geo Projections

d3.geo.**aitoff** - Aitoff
d3.geo.**albers** - Albers equal-area conic
d3.geo.**august** - August conformal
d3.geo.**azimuthalEqualArea** - Lambert azimuthal equal-area
d3.geo.**azimuthalEquidistant** - Azimuthal equidistant
d3.geo.**bonne** - Bonne
d3.geo.**collignon** - Collignon
d3.geo.**conicConformal** - Lambert conformal conic
d3.geo.**conicEquidistant** - Conic equidistant
d3.geo.**cylindricalEqualArea** - Cylindrical equal-area
d3.geo.**eckert1** - Eckert I
d3.geo.**eckert2** - Eckert II
d3.geo.**eckert3** - Eckert III
d3.geo.**eckert4** - Eckert IV
d3.geo.**eckert5** - Eckert V
d3.geo.**eckert6** - Eckert VI
d3.geo.**eisenlohr** - Eisenlohr conformal
d3.geo.**equirectangular** - Equirectangular (Plate Carrée)
d3.geo.**gnomonic** - Gnomonic
d3.geo.**guyou** - Guyou hemisphere-in-a-square
d3.geo.**hammer** - Hammer
d3.geo.**homolosine** - Goode Homolosine
d3.geo.**kavrayskiy7** - Kavrayskiy VII
d3.geo.**lagrange** - Lagrange conformal
d3.geo.**larrivee** - Larrivée
d3.geo.**mercator** - Mercator
d3.geo.**miller** - Miller
d3.geo.**mollweide** - Mollweide
d3.geo.**nellHammer** - Nell–Hammer
d3.geo.**orthographic** - Orthographic
d3.geo.**polyconic** - Polyconic
d3.geo.**robinson** - Robinson
d3.geo.**satellite** - Satellite (tilted perpsective)
d3.geo.**sinusoidal** - Sinusoidal
d3.geo.**stereographic** - Stereographic
d3.geo.**vanDerGrinten** - Van der Grinten
d3.geo.**wagner6** - Wagner VI
d3.geo.**winkel3** - Winkel Tripel

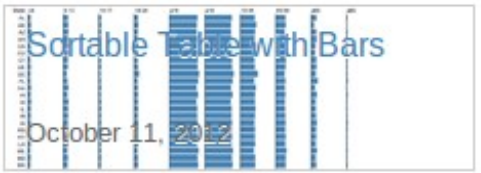
d3.geo has 8 of these now



http://bl.ocks.org/jasondavies

Miller Projection September 14, 2012	Polyconic Projection September 16, 2012	Eckert VI Projection September 16, 2012	Eckert IV Projection September 16, 2012
Goode Homolosine Projection September 16, 2012	Van der Grinten Projection September 16, 2012	Mollweide Projection September 16, 2012	Nell–Hammer Projection September 14, 2012
Eckert V Projection September 16, 2012	Eckert III Projection September 16, 2012	Eckert II Projection September 16, 2012	Eckert I Projection September 16, 2012
Larrivée Projection September 16, 2012	Aitoff Projection September 13, 2012	Bonne Projection September 16, 2012	Collignon Projection September 28, 2012
Zoom by Rectangle September 24, 2012	longscroll.js October 12, 2012	β(s) Spirals August 27, 2012	Chrome Circle Precision Bug August 01, 2012
stopPropagation July 27, 2012	SVG transform interpolation July 24, 2012	Spinny Globe July 09, 2012	Geographic Clipping: Spiral July 09, 2012

http://bl.ocks.org/mbostock




Browse code


Hide verticalPerspective projection. ···
mbostock authored a month ago
408bd5611a
Browse code


Update README.
mbostock authored a month ago
dfcac788e3
Browse code


Rename albersEqualArea to albers.
mbostock authored a month ago
9ab972c0dd
Browse code


Optimize satellite perspective.
mbostock authored a month ago
b1c134eb1a
Browse code


Remove projection.rotate.
mbostock authored a month ago
e0dd6d71bc
Browse code


Add stereographicInverse & azimuthalInverse. ···
mbostock authored a month ago
c7c144d36a
Browse code


Fix for missing test/env.
mbostock authored a month ago
1
65d8607490
Browse code


Restore additional inverse tests.
jasondavies authored a month ago
618d43f8db
Browse code


Restore .origin and add .oblique.
jasondavies authored a month ago
02970074d2
Browse code


Really fix inverse rotations. ···
jasondavies authored a month ago
2639afb27f
Browse code


Fix inverse rotations. ···
jasondavies authored a month ago
3ca02cc3f4
Browse code


Remove unused code.
jasondavies authored a month ago
2b5cb5364e
Browse code


Fix latitude rotation. ···
jasondavies authored a month ago
a8513db976

How do you keep up?

Follow Mike and Jason on Twitter:

http://twitter.com/mbostock

https://twitter.com/jasondavies

Follow them on Github to see recent commits to d3, plugins and examples:

https://github.com/mbostock

https://github.com/jasondavies?tab=activity

Watch out for recent examples on bl.ocks:

http://bl.ocks.org/mbostock

http://bl.ocks.org/jasondavies

Join the d3.js mailing list:

http://groups.google.com/group/d3-js/

Warning!

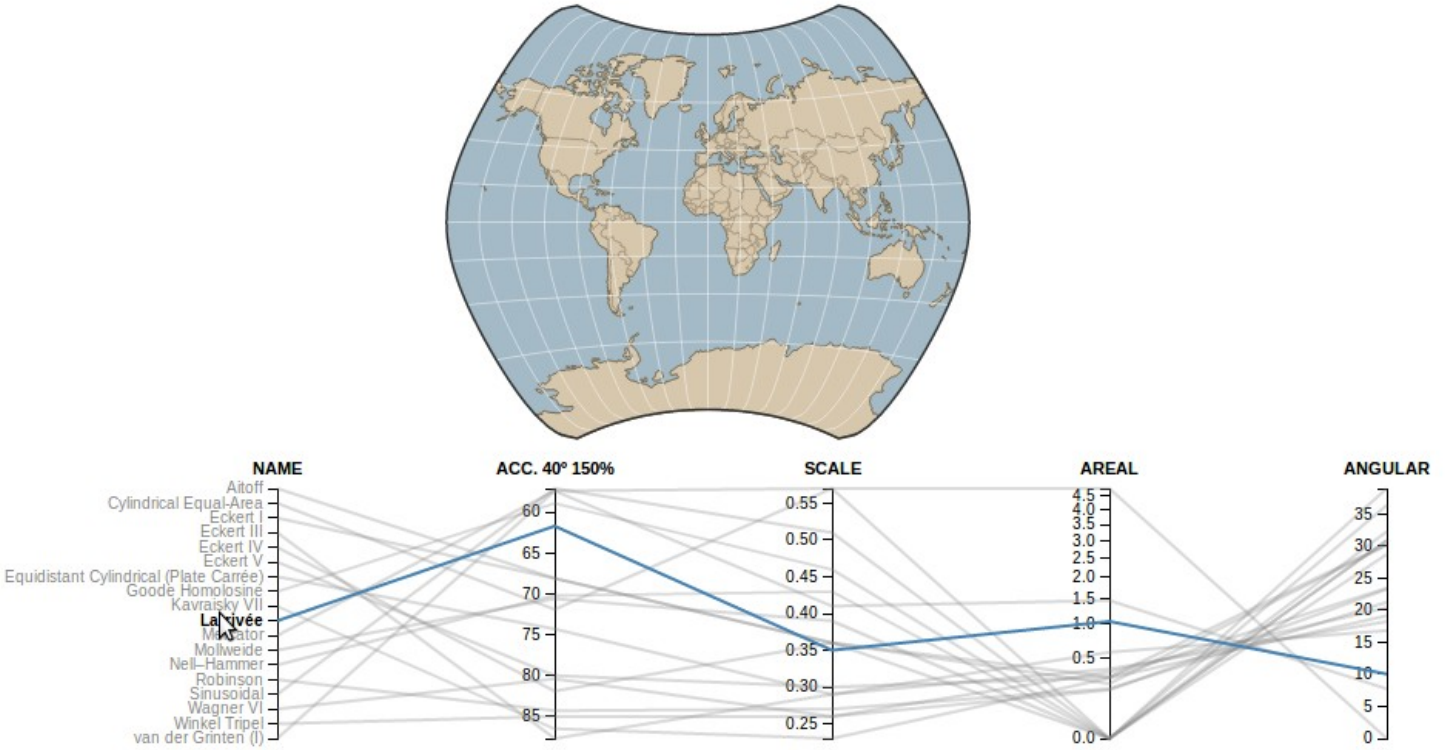
Some of the examples use different branches of the geo plugin and d3:

https://raw.github.com/mbostock/d3/**projection**/d3.v2.min.js

https://raw.github.com/d3/d3-plugins/**projection**/geo/projection/projection.js

https://raw.github.com/**jasondavies**/d3/**projection**/d3.min.js

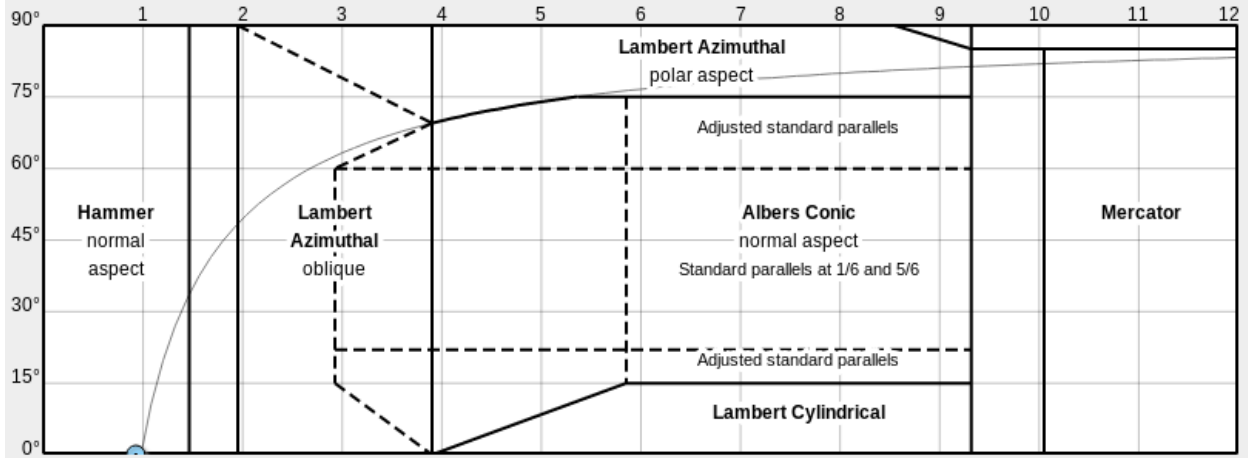
Comparing Map Projections



Composite Projections

0.0° E
Latitude: 0.0° N

Standard Parallels for Conic Projection
First Standard Parallel: –
Second Standard Parallel: –



Small Scale Projection
Hammer (Equal Area)

Map Silhouette

☑ Zoom

☐ Rotate poles for world maps

☐ Show map overlay

☑ Snap to straight equator

Animate

Large-Scale Projections for Polar Areas
Azimuthal projection for poles from
±75°

with a transition zone from
±60°

Scale limits for combining projections
1.50 2.00 3.00 4.00 6.00

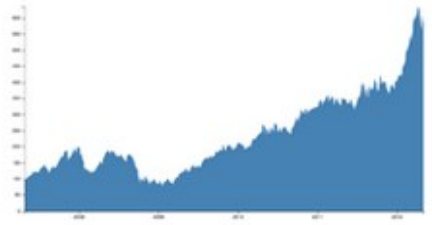
Position of standard parallels for conic projection
17%

Latitude limit between clyindrical and conic projection at large scales
Use cylindrical projection between the equator and
±15°
with a transition zone up to this latitude
±22°

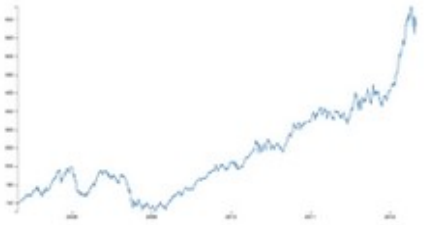
What else is new?

Basic Charts

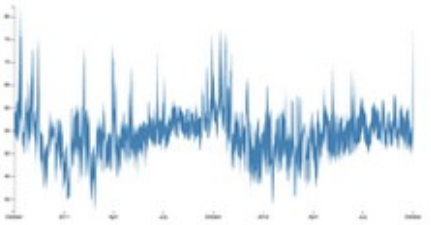
Area Chart



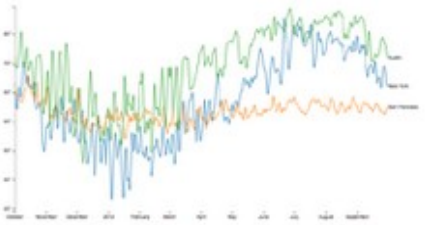
Line Chart



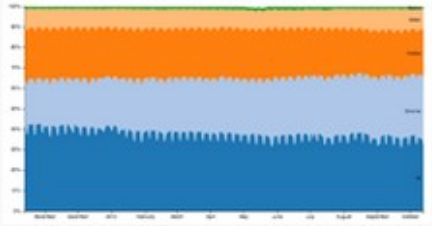
Bivariate Area Chart



Multi-Series Line Chart

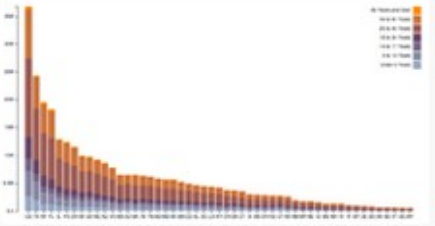


Stacked Area Chart

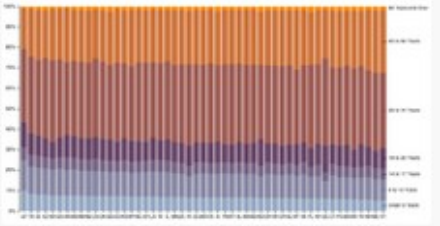


Bar Chart

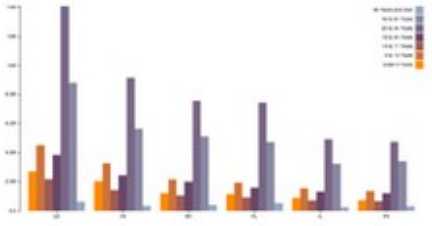
Stacked Bar Chart



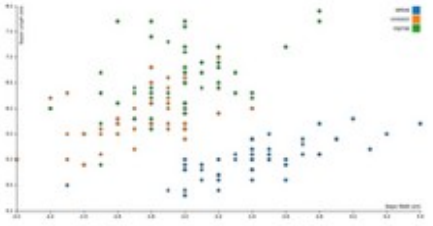
Normalized Stacked Bar Chart



Grouped Bar Chart



Scatterplot

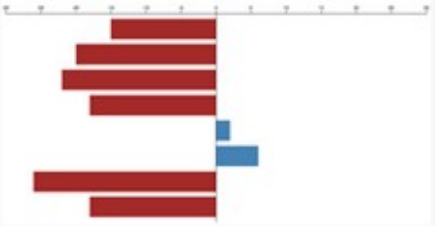


Donut Chart

Pie Chart

Donut Multiples

Bar Chart with Negative Values



Techniques, Interaction & Animation

General Update Pattern

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bdls
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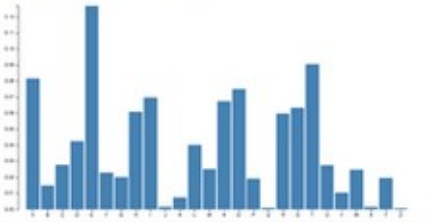
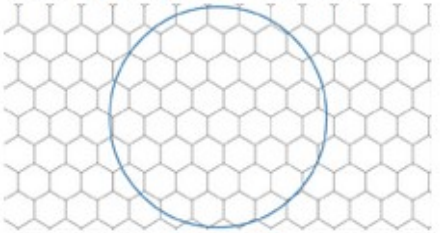
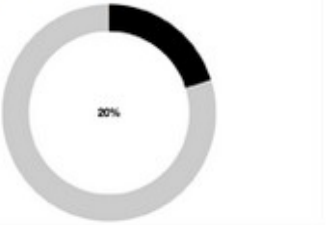
Sortable Bar Chart



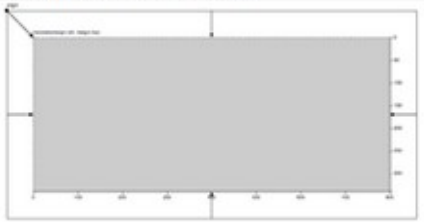
van Wijk Smooth Zooming



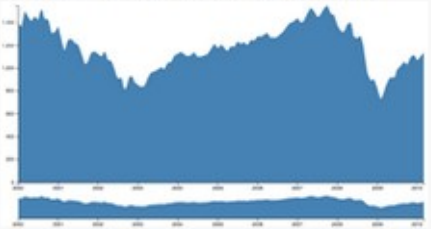
Progress Events



Margin Convention



Focus+Context via Brushing



Difference Chart