Quantum GIS Cartography

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Wind data from **NOAA’s** Aviation Weather Center

Icon design in **Inkscape**

Map design in **Quantum GIS**

Refine with **GIMP**
**METARs**

Aviation routine weather report (in CSV)
Aviation Weather Center REST Web Service

http://www.aviationweather.gov/adds/dataserver_current/httpparam?dataSource=metars&requestType=retrieve&format=CSV&hoursBeforeNow=2
Start a new Inkscape session
Draw freehand lines
Add a rounded top to the first line
Fill in the empty space, save out as SVG
Add CSV weather data to QGIS
Add CSV weather data to QGIS
Set Coordinate Reference System (WGS84)
CSV geocoded and added to map
CSV geocoded and added to map
Add US layer for context
Change CRS to US National Atlas Equal Area
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While we’re here, let’s export our geocoded CSV to SHP
While we’re here, let’s export our geocoded CSV to SHP
And add it to our map
Double-click *wind* in the TOC, Layer Properties
Style tab, graduated symbols, by wind speed
Style tab, graduated symbols, by wind speed
Change from 5 to 10 classes
Change symbol from simple marker to SVG
Copy path of Wind.SVG to SVG Image box
For each class, change symbol size (2, 4, 6, etc.)
Custom SVG symbols, sized by wind speed
Layer properties, Advanced, Rotation field, wind_dir_d
Wind symbols now rotated by wind direction
Add a new weather station point file beneath wind
Right click, Query for precipitation
Change marker to green, size 10, 90% transparent
Change marker to green, size 10, 90% transparent
Add 3 more layers, query for lightning, sun, clouds
File, New Print Composer
Paper and quality, Size, ANSI A (Letter)
Add new map to the page
Add new legend to the page
Edit legend text
Remove *Legend* text, rename legend items
Remove legend border, will refine using GIMP
Export as PDF, one with legend, one without
Use GIMP to rearrange legend, add text
Further reading...

Quantum GIS Planet | Cartography
http://planet.qgis.org/planet/tag/cartography/

Anita Graser
http://anitagraser.com/

Print Composer 2.0 posts
http://anitagraser.com/?s=print+composer

InfoGeoBlog
http://infogeoblog.wordpress.com/?s=qgis+cartography
Thanks!

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