

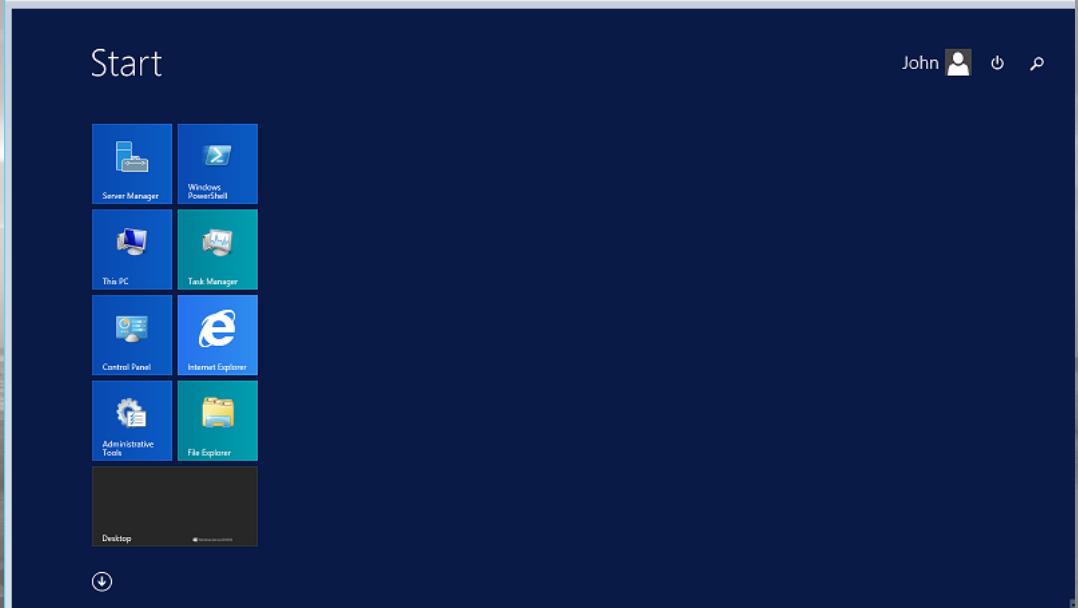


# Big Data for Weather Progress Report V

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# Quarter in Review

- ❑ Formed our team
- ❑ Gathered requirements
- ❑ Made a machine
- ❑ Set up the server
- ❑ Learned Pentaho and IDL
- ❑ Parsed binary weather data
- ❑ Structured data



# Main Challenges

- ❑ Finding a machine
- ❑ Finding a location for our server
- ❑ Finding the right software
- ❑ Parsing the data
- ❑ Learning new tools
  - ❑ 8 Hour online course

# Achievements

Non-technical

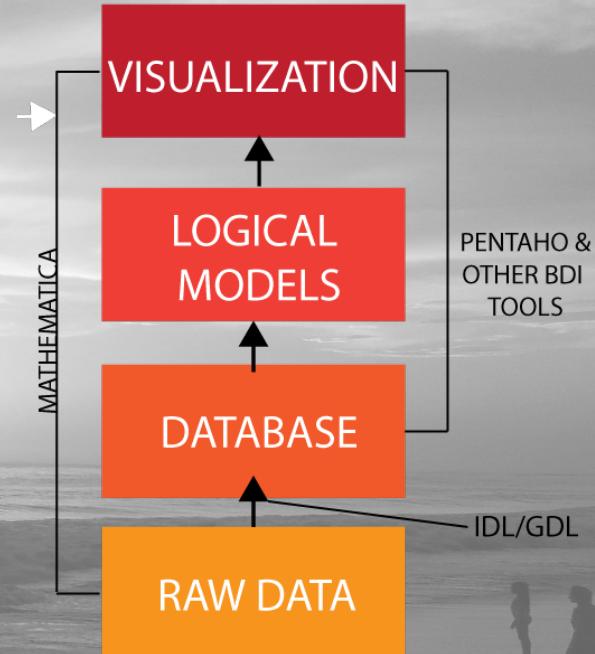
Understanding the project

Technical

Setting up server

Parsing the binary weather data

Learning Pentaho



# Most Import Things Learned

Technical

How to create Pentaho  
transformations and jobs

Pentaho is the central part of all our tools, tasks, and data

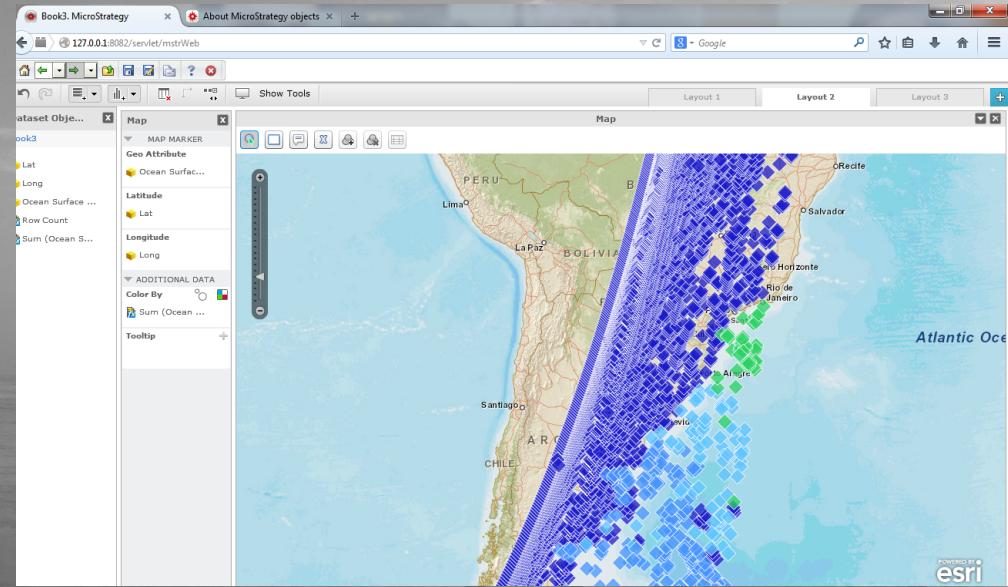
# Most Import Things Learned

## Non-technical

Free and cheap software can sometimes do things just as well as expensive big name software

# 500 Days of Data (summer)

- Researching visualization tools
- Learning about Hadoop databases
- Explore with Microsoft Excel features & other visualization tools



# Individual Summer Responsibilities

- Bi-weekly checkups with group
- Monthly in person checkups with sponsor
- Blogging on Incentive page about progress
- Transferring data to Hadoop
- Researching visualization tools
  - Update wiki page

# Fall Quarter

## Transformation, Visualization Documentation

Quatoero / Wiki

Summer Research on Weather Visualizations 1 0 0

Created 4 days ago by Bradley Cruse modified 4 days ago by Stew Sutton [bigdata:quatoero:research](#)

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Name	URL	Description	Features	Assessment / Use
USA Wind Map	<a href="http://hint.fm/wind/">http://hint.fm/wind/</a>	A visual (fluid) map of wind speeds and wind vector (flow) for the continental U.S.	Surface wind data comes from the National Digital Forecast Database. These are near-term forecasts, revised once per hour. So what you're seeing is a moving portrait. (See the NDFD site for precise details.) The timestamp shows time of download. And for those of you chasing top wind speed, note that maximum speed may occur over lakes or just offshore.	A good near-real-time reference example of wind speed visualization
US Wind Vector Map	<a href="http://www.wunderground.com/US/Region/US/2/WindSpeed.html">http://www.wunderground.com/US/Region/US/2/WindSpeed.html</a>	Simple wind vector (static)	Static view map of various weather products	Simple reference of weather products visualized on a USA map
3D Wind Globe	<a href="http://earth.nullschool.net/">http://earth.nullschool.net/</a>	a 3D (near-real-time) projection of wind flow	A 3D zoom of earth in 3D projection with an active fluid-like flow of wind currents all around the earth. Can animate both wind flows and current flows based on live data feeds.	Source code is also available for this Good reference

