

Lecture 15: Wrap-up: Infographics and data dashboards, web deployment of geospatial data.

November 19, 2018

Exam Preparation

- Go over slides for lectures 7-13
 - Test will not cover content for lectures 14 & 15
- Be sure to review
 - Attribute joins
 - Spatial overlays
 - Selection methods (e.g. definition query vs selected set)
 - Geoprocessing
 - Models and model types/functions
 - Types of maps
 - Constraints/considerations to map design
 - Map anatomy
 - Quantitative vs qualitative **visual types** (markers/symbols, line type and weight, fills)
 - Data classification methods
 - Thematic map types: e.g. Choropleth map
 - Primary v secondary data capture
 - Evaluation of data use

Data Analytics & Infographics

- Analytics is the discovery, interpretation, and communication of meaningful patterns in data and applying those patterns towards effective decision making.
 - <https://en.wikipedia.org/wiki/Analytics>
- Infographics (a clipped compound of "information" and "graphics") are graphic visual representations of information, data or knowledge intended to present information quickly and clearly. They can improve cognition by utilizing graphics to enhance the human visual system's ability to see patterns and trends.
 - <https://en.wikipedia.org/wiki/Infographic>

Data Analytics & Infographics

- **Reading:**
 - [Data is beautiful](#)
 - [How The Times Makes Those Addictive Election Maps](#)
 - [538](#)

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- Tableau: <https://www.tableau.com/>
 - <https://www.tableau.com/learn/whitepapers/10-ways-add-value-your-dashboards-maps>
- Microsoft Power BI (Business Intelligence):
<https://powerbi.microsoft.com/en-us/>
- Insights for ArcGIS: <https://doc.arcgis.com/en/insights/>

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- Tableau
 - <http://www.thempo.org/887/Data-Portal>.
 - <http://www.thempo.org/914/Motor-Vehicle-Crashes>
 - <http://www.thempo.org/913/Advanced-User-Data>
 - <http://www.thempo.org/919/Demographics-Socio-Economics>

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- Microsoft Power BI :
<https://community.powerbi.com/t5/Data-Stories-Gallery/bd-p/DataStoriesGallery>
- Bing integration: <https://docs.microsoft.com/en-us/power-bi/visuals/power-bi-map-tips-and-tricks>

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- Insights for ArcGIS:
 - [Lane County Health Rankings:
https://lanecounty.org/cms/One.aspx?portalId=3585881&pageId=13728966](https://lanecounty.org/cms/One.aspx?portalId=3585881&pageId=13728966)
 - [https://esri-
insights.maps.arcgis.com/apps/insights/index.html#/view/776439ec5601427d87e7edff3c2e63a4](https://esri-
insights.maps.arcgis.com/apps/insights/index.html#/view/776439ec5601427d87e7edff3c2e63a4)

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- <https://ds.iris.edu/seismon/>
- <https://www.opportunityatlas.org/>

Web deployment of data

- ArcGIS Online
 - <https://www.arcgis.com/home/index.html>
 - <https://doc.arcgis.com/en/collector/>
 - <https://survey123.arcgis.com/>
- Boundless
 - <https://boundlessgeo.com/>
- Sandbourne Maps
 - <https://www.sanborn.com/sanborn-fire-insurance-maps/>

