Building Out a Library Based Data Visualization Service

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- 27,979 undergraduates
- 15,447 graduate and professional students
- Over 250 degree programs
- Over 35,000 employees
- More than 6,000 faculty
Data Related Services on Campus

• SAND (Spatial and Numeric Data Services)
  – 2-3 Librarians
  – Extensive GIS support

• CSCAR (Center for Statistical Consultation and Research)
  – 10 Staff
  – Graduate Student Consultants

• DMC (Digital Media Commons)
  – 3D Lab – 3-4 Full Time Staff
  – Part of the Library for 4 years
Data Visualization at SAND

- Consultations
- Open Workshops
- Course Based Instructions
Data Visualization

- Design
- Tools and Technology
- Analysis
Software

- ArcGIS
- SPSS
- Stata
- SAS
- Gephi
- Cytoscape
- D3
- Protovis
- Flare
- Tableau
- R

- Rhino/CAD
- Python
- Quantum GIS
- Illustrator
- Photoshop
- Excel
- MS Paint
THE POTATO LIFECYCLE

A Comprehensive Timetable For Planning, Planting And Monitoring Your Own Crop Of The World’s Most Resilient Tuber.
Visualization as Design
Visualization as Design
THE POTATO LIFECYCLE

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ENVIRONMENT
- Frost Danger
- Average High (°F)
- Average Low (°F)
- Moon Phase
- Precipitation (in.)

SOW & HARVEST
- First Earlies
- Second Earlies
- Skittles
- Maincrop
- Christmas
Exploratory Data Analysis

Exploratory Data Analysis

Hypothesis Testing
Contextualizing Data

DEMOGRAPHICS poverty
Interaction
The Space of Data Visualization

Design

Tools and Technology

Analysis