Visualizing Boone History

A Case Study in Developing Physical and Digital Map Displays

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Overview

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- Objectives
- Methods
- Limitations
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Shaping Our Modern Landscape

Salt Lick in Franklin County

Boone Family Property

St. Charles
Daniel Boone
1734-1820

Family
- Quaker
- 1756 - Rebecca Bryan
- 10 children

Frontier
- Expert rifleman
- Extensive hunting trips
- 1775 Wilderness Trail

Other Roles
- Land Surveyor
- Commandant

Legend
- Did not wear coonskin cap
- Optimized American hero
The Project

- Hand drawn map
- Physical Relief Model
- Interactive Web Map
Stakeholders

...brings a fresh sense of perspective by literally superimposing the past over the present. ~ William Ray, Lead Interpreter

• St. Charles County Government
• Academia

• Local Community
• Historical Societies
Timeline of Femme Osage Region Major Events

Indigenous Cultures
600 CE Middle Mississippian
1350 CE Cahokia Site abandoned
Seven tribes of Missouri
• Chickasaw
• Illini
• Ioway
• Quapaw
• Missouria
• Osage
• Otoe

Early Colonization
1673 - Marquette & Jolliet
1720 – 500 slaves brought to work in Des Peres, Missouri
1762 – French ceded land to Spain
1769 – Les Petite Côtes
1797 - Daniel Morgan Moves West
1799 - Daniel Boone Moves West with Settlers
1800 - Appointed as Spanish Commandant

Early America
1803 - Louisiana Purchase
1804 – 1806 Lewis Clark Expedition
1805 – Boones Lick Trail
1808 – Osage Treaty
Sept. 26, 1820 - Boone Passed Away
Indigenous Cultures

Tribal Nations  By: Aaron Carapella

- Osage Nation

- Tribal Wars
- Trading
- Territory disputes
- Disease
- Wildlife movement
- Fur trading/Bison
- Treaties
Early Colonization

Territorial Claims in North America

MAPS ETC, University of Florida

1760

States and Territories of the United States of America
August 7 1789 to May 26 1790
Land Grants

French and Spanish private claims lie embedded in the rectangular survey pattern in St. Charles County, Missouri, northeast of St. Louis.

Early America

Daniel Boone Escorting Settlers through the Cumberland Gap
By: George Caleb Bingham, c.a. 1851-1852 (Kemper Art Museum, 2017)

Early American Log Cabin

Nathan Boone Home – Georgian Style
Visual Communication

**Physical**
- Controlled to Tell a Story
- Tangible perspective for visual/tactile learners
- Does not require supplemental materials
- Piece of art

**Digital**
- Reduce clutter
  - Feature Selection
  - Narrative Pop-Ups
  - Symbology Auto-Resizing
- User Has Choice
  - Determining visible layers
- Reach a wider audience
  - Mobile/Desktop
Map Display Workflow

Data Gathering
- Scan Map
- DEM
- USGS 7.5 Topo

Data Processing
- Georeferencing
- Features
- Symbology

Printing
- Print Format
- Vendor Assessment
Land Grant Polygons
RED outline is GIS derived
BLACK outline is Topo derived
Final Product
Common Map Layers

**BASEMAP**
- Imagery
- Transportation
- Hillshade

**THEMATIC**
- Land Grants
- Early Colonization boundaries
- Trails
- Indian Nations
- Slave Homes
- Cemeteries
- Lewis & Clark
- Points of Interest

**INTERACTIVE**
- Land Grants
- Houses
- Points of Interest
Interactive Map – How do we make this go?

- **Content**
  - Feature vs Narrative
  - Sourcing

- **User**
  - Who would use this data?

- **Intent**
  - How would they use the data?
Interactive Map – Recommendations

Brainstorm
- User
- Intent
- Content

Assess Approach
- Evaluate Methods
- Identify Best Practices

Identify
- Primary Content
- Supporting Content
- Symbology
- Design
Objectives

- Determine viability to tie hand drawn map to real world locations
- Develop a physical display that maintains the integrity of the source map
- Construct the framework & pilot project of an interactive map based on source map

Courtesy of the Daniel Boone Wilderness Trail Association
Project Limitations

- **Time**
  - Research/Investigation
  - Implementation

- **Data Accuracy**
  - Conflicting Sources

- **Amount of Data**
  - Number of Sources
  - File Size

- **Third Party**
  - Print Time
  - Existing Data Services
## Projected Timeline

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<th>2018</th>
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<td><strong>Dec</strong></td>
<td><strong>Jan</strong></td>
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<tr>
<td>Physical Draft Geotiff</td>
<td>Finalize Geotiff</td>
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<td>Pilot Project Determine Platform</td>
<td>Draft Site</td>
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<td>Recommendations Formalize Parameters and Initial Carto Assessment</td>
<td>Assess Collection Methods</td>
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REFERENCES


Questions?