# Visualizing Boone History

# A Case Study in Developing Physical and Digital Map Displays

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### Overview

- Introduction
- Purpose
- Background
- Objectives
- Methods
- Limitations
- Timeline
- References



### Shaping Our Modern Landscape



#### Daniel Boone 1734-1820







### 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

Bryan Mill – 1850, Painting By: Bryan Haynes, 2012

St. Charles County GovernmentAcademia

Local CommunityHistorical 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
- loway
- 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 Wars
- Trading
- Territory disputes
- Disease
- Wildlife movement
- Fur trading/Bison

Seminol

• Treaties



#### Land Grants

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

Hildegard Binder Johnson, fig 7.3, page 147, in her chapter "Gridding a national landscape", in Michael P. Conzen, editor, *The Making of the American Landscape*, Second Edition, (New York: Routledge, 2010).



#### Early America

Daniel Boone Escorting Settlers By: George Caleb Binghr Sorland Gap Museum, 2017)

Nathan Boone Home – Georgian Style

Early American Log Cabin

#### **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 Processing

Scan Map
DEM
USGS 7.5 Topo

Data Gathering

GeoreferencingFeaturesSymbology

 Print Format
 Vendor Assessment

Printing









### **Final Product**



#### **Common Map Layers**

Imagery Transportation Hillshade Land Grants Early Colonization boundaries Trails Indian Nations Slave Homes Cemeteries

Lewis & Clark

Points of Interest

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

# Assess Approach

- User
- Intent
- Content

Brainstorm

- Evaluate Methods
- Identify Best Practices

- Primary Content
- Supporting Content

Identify

- 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



### Project Limitations



# **Projected Timeline**

	2017	2018			
	Dec	Jan	Feb	Mar	Apr
Physical	Draft Geotiff	Finalize Geotiff	Send to Printer	Print	Deliver
	Determine				
Pilot Project	Platform	Draft Site	Refine Site	Finalize Site	Present
	Formalize				
	Parameters and	Assess	Finalize		
	Initial Carto	Collection	Cartographic	Drafting Write-	
Recommendations	Assessment	Methods	Assessment	Up	Deliver

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