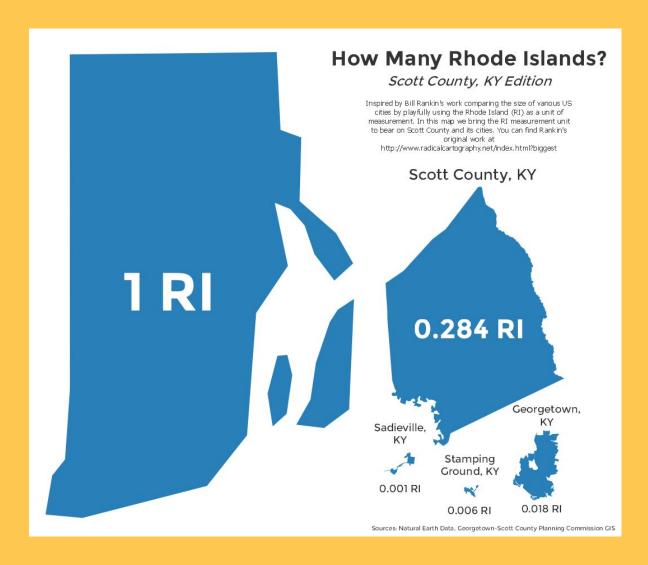
Portfolio Ryan Cooper

ryan-m-cooper.com | ryancooper729@gmail.com | @maptastik

Static Map

How Many Rhode Islands?



About:

For this graphic I drew on the work of Bill Rankin who uses the area of Rhode Island (RI) as a unit of measurement to examine the relative size of cities. Here I analyzed the area of Scott County and each of its 3 cities, measuring them in units of RI.

Created using:

QGIS

Walmart vs. Downtown



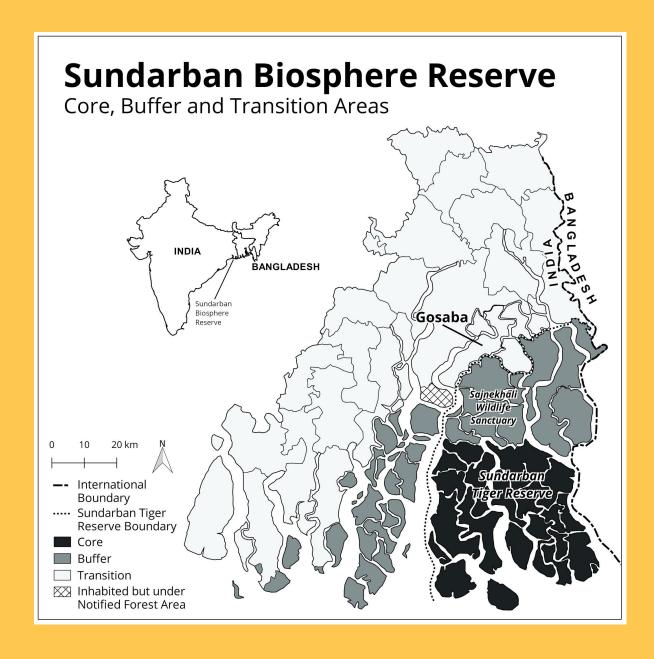
About:

Walmart, like most big box stores, requires large amounts of land. The property taxes generated from a single big box store is sometimes lower than one might imagine. In this pair of maps I compared property tax values for the Georgetown Walmart and the taxable parcels that could fit under the store's footprint in downtown Georgetown, KY. This analysis revealed that while only half of downtown's land is taxable, the taxable area per taxable acre is nearly double that of Walmart's parcel.

Created using:

- QGIS
- Inkscape

Sundarban Biosphere Reserve



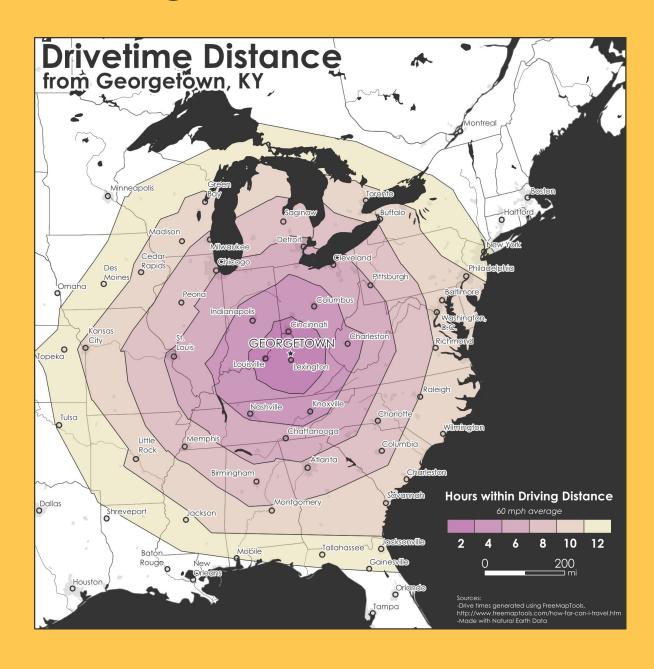
About:

This map was created for Dr.
Priyanka Ghosh for inclusion in an academic article concerning her research on conflict and conservation in the Sundarban Biosphere Reserve of eastern India.

Created using:

QGIS

Georgetown, KY Drivetime Distance



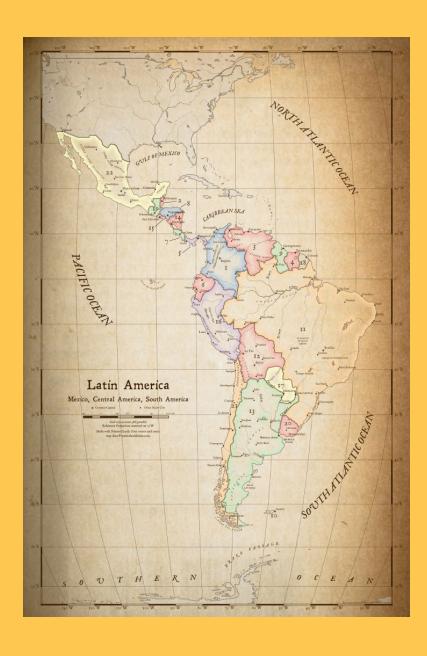
About:

For his presentation to the Mayor's Institute on City Design, Georgetown, KY mayor Tom Prather requested a map that highlighted all the places within a day's drive of the Scott County Seat. In the map I generated drivetime isochrones for 2-hour intervals up to 12 hours and included a variety of cities that one could access in those time spans from Georgetown.

Created using:

- QGIS
- Inkscape

Latin America Countries Game



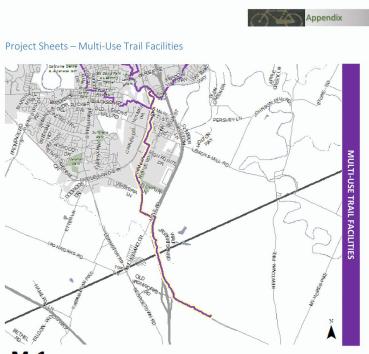
About:

For National Hispanic Heritage Month, the Scott County Public Library requested a map to accompany a game meant to help visitors learn the countries of Latin America. I drew inspiration from old treasure maps for the aesthetic.

Created using:

- QGIS
- Inkscape

Bike/Pedestrian Plan Project Sheets



M-1

 $\label{legacy Trail Extension - From the Fayette Co. line, along the western edge of the Kentucky Horse Park, following the feasibility Study done by CDP for sections 1 \& 2$

12 foot shared use trail from the Kentuckky Horse Park to Cardome. The trail will provide access to the Lisle Road Soccer Complex, Lemons Mill Elementary, Cardome, North Elkhom Creek, and Peninsulo Park

Details

ID: M OR XXXX 1.00 Jurisdiction: Scott County / Georgetown Type: Off-Road Trail

Length: 31,346 ft Lane Width: 12' Materials: Asphalt

Safety Issues: Tunnel, Lisle Road & Lemons Mill Road Crossings

Potential Funding: TAP, CMAQ, SRTS

Connectivity

Existing Facilities Schools/Parks
[] [X]

Commercial Residential

Bicycle and Pedestrian Plan | Page 72

About:

Since 2014, GSCPC has been working to generate a Bike/Pedestrian plan for Scott County. To create a uniform aesthetic for proposed project sheets I implemented the Data Driven Pages tools found in ArcGIS and ArcPy

Created using:

- ArcGIS
- ArcPy

View at:

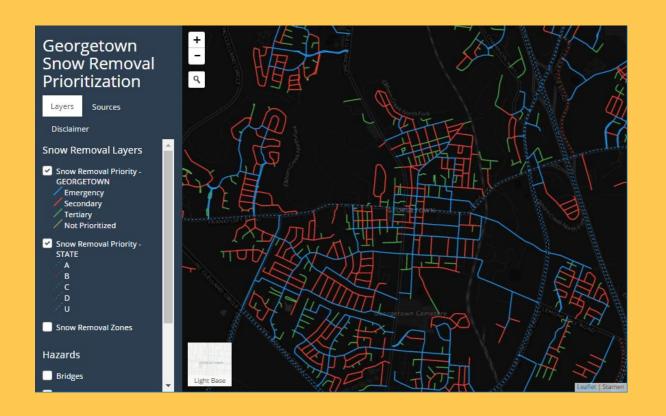
http://bit.ly/2jOFims





Interactive Map

Georgetown Snow Removal Prioritization



About:

In 2015, two large winter storms in Central Kentucky caught citizens off guard. In response, I worked with the City Engineer and Public Works Department to create this interactive map of snow priority routes and hazards for Georgetown, KY. When winter storms hit in 2016, this map was accessed by thousands to inform their local travel plans.

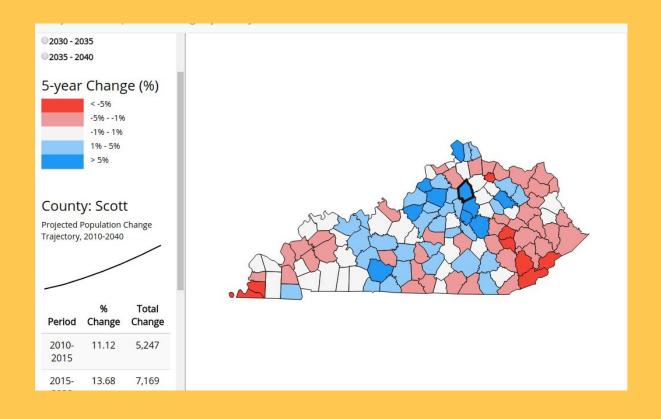
Created using:

- Leaflet IS
- Bootstrap
- jQuery
- ArcGIS

View at:

http://bit.ly/1P8dlko

Kentucky Population Projections



About:

Scott County is the fastest growing county in Kentucky. For the GSCPC newsletter, we wanted to include a feature about that growth. Drawing on population projections from the Kentucky State Data Center, I created this interactive choropleth depicting the projected changes in population for each Kentucky county over 5-year periods. Users can toggle each time period and click counties for more information about the trajectory of their growth.

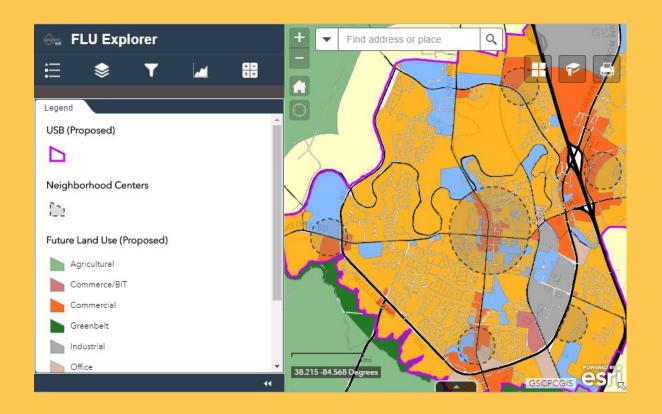
Created using:

- D3
- Bootstrap

View at:

http://bit.ly/2jOQhwo

Future Land Use Explorer



About:

To assist GSCPC planners in the update of the Scott County Future Land Use map, I developed this app of relevant local land use and boundary line data. It implements filtering, charting, and summary widgets from Web App Builder that allows the planners to derive useful statistics about the updated Future Land Use map throughout the county and its 3 cities..

Created using:

- ArcGIS
- ArcGIS Online
- ArcGIS Server
- ArcGIS Web App Builder

View at:

http://arcg.is/2jGXA94

Georgetown, KY Sanborn - 1912



About:

Sanborn Maps are a great way to analyze how cities have developed over time. However, a mapping of single city consists of several map sheets. In this map, I stitched together, georeferenced, and tiled the 15 map sheets from Sanborn's 1912 mapping of Georgetown, KY. I then overlaid that layer atop contemporary aerial imagery so that users could compare and contrast the urban landscape of today with that of yesteryear.

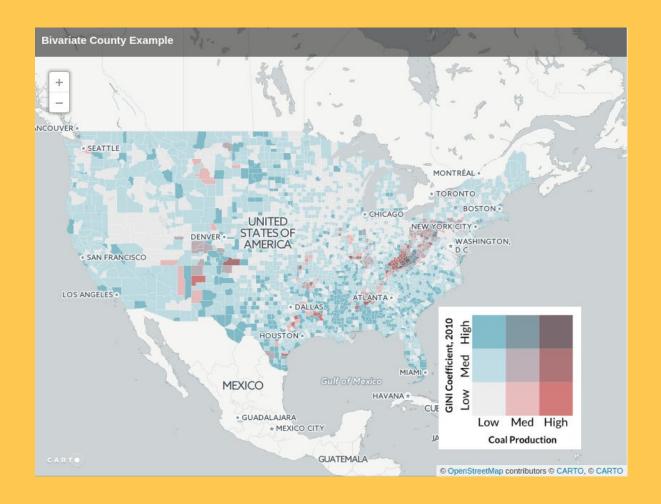
Created using:

- ArcGIS
- Leaflet
- GIMP
- jQuery
- Mapbox Studio
- GDAL

View at:

http://bit.ly/gtown1912

Bivariate Choropleth Map



About:

While working on a freelance project, a client expressed interest in seeing a bivariate choropleth map where the color of, in this case, counties corresponded to the relationship between the GINI Coefficient and coal production.

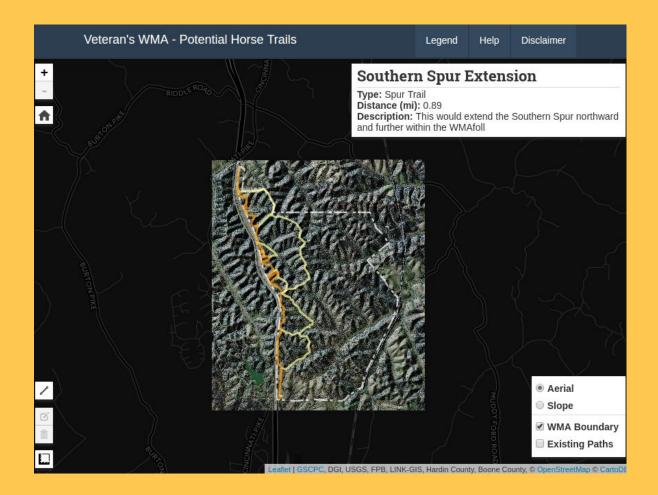
Created using:

- Carto
- PostGIS

View at:

http://bit.ly/2jW04Tv

Potential Horse Trails



About:

When GSCPC was approached by local equine trail riding enthusiasts, one of my tasks was to create a map of potential trails through a large swath of public land north of Georgetown, KY. This interactive map displays those paths, information about them, and includes tools for the user to measure and draw their own paths.

Created using:

- Leaflet
- ArcGIS
- Esri-Leaflet
- Bootstrap

View at:

http://bit.ly/2jW04Tv

Public Outreach

GSCPC Comprehensive Plan Website



About:

When GSCPC set out to generate its 2016 comprehensive plan, we committed to making the process more transparent by creating a website. I generated generic template pages and components that could be re-used throughout the website to ensure easier updating and a consistent look.

Created using:

- Jekyll
- GitHub
- Highcharts
- DataTables
- TabletopJS

View at:

http://greatscottplan.com

GSCPC Website



About:

When I started at GSCPC in 2014, the office website was published via FrontPage. It wasn't mobile-friendly and was soon-to-be unsupported by our webhost. Through user-tests and meetings with staff I created a newly designed, mobile-friendly website that, in my absence, can be updated by coders and non-coders alike.

Created using:

Wix

View at:

http://www.gscplanning.com/

Blue Grass Stockyards

Disclaimer

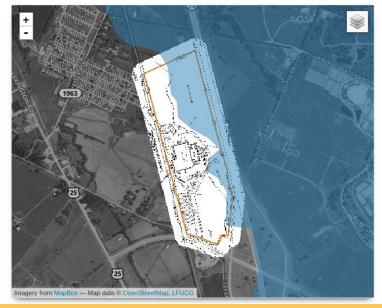
ources

Proposed Blue Grass Stockyards

and Royal Spring Aquifer

On January 30th, 2016 a three-alarm fire burned Lexington's Blue Grass Stockyards to the ground. While the remnants of this important regional site of cattle sales continued to smolder, Lexington Mayor Jim Gray, Agriculture Commissioner Ryan Quarles, and Governor Matt Bevin met to discuss next steps, including how to ensure that the rebuilt stockyards would remain in Central Kentucky. On Tuesday, February 23 Ironworks Farm, LLC filed a development plan with LFUCG mapping out their plans for construction of a new stockyards at 4561 Iron Works Pike. According to the Lexington Herald-Leader, half of the Stockvard's shareholders own the parcel at the intersection of I-75 and Iron Works Pike in northern Fayette County. In the weeks since, residents and officials in Scott County have raised concerns about the Stockyard's potential impacts on water quality. Portions of the site sit on or near the Royal Spring Aquifer, the primary water source for Georgetown.

By overlaying this the Royal Spring Basin, the area from which the Royal Spring Aquifer is fed, on top of the proposed site plan for the new



About:

When the Ironworks Farm (IF) submitted their plans to construct a new stockyard near Georgetown's water source, the Royal Spring Aquifer, residents were understandably concerned. I created this map and text to help citizens better understand where IF was looking to build and how it related to the Royal Spring Aquifer.

Created using:

- Leaflet
- Bootstrap
- Mapbox Studio
- GDAL

View at:

http://www.gscplanning.com/

Graphic Design

GSCPC Resource Tiles



About:

During the redesign of the GSCPC website, I decided that we needed a new way to link to those resources that we wanted to highlight. For those I created several graphic resource tiles that were meant to generate more interest in the linked content and to be evocative of what the user would find upon clicking.

Created using:

- Inkscape
- make8bitart

GSCPC Logo



About:

In 2014 GSCPC held an internal competition to design a new logo. In my design, which was selected as the winner, I drew inspiration from the clean yet curving lines and modern fonts found on the development plans scattered throughout our office.

Created using:

Inkscape

Keep Franklin County Clean Campaign



About:

As a part of some volunteer work I did with the Franklin County (KY) Solid Waste Administrator, I was tasked with developing a log for their *Keep Franklin County Clean* campaign.

Created using:

Adobe Illustrator