The Historic Iditarod Trail is the only winter trail in the National Trails System and the only Congressionally-designated National Historic Trail in Alaska. The Iditarod National Historic Trail system is comprised of a 1,000-mile main trail between Seward and Nome, and an additional 1,400 miles of side/connecting trails that link communities and historic sites, or provide parallel route.

The Iditarod Trail Sled Dog Race is an annual long-distance sled dog race run in early March from Anchorage to Nome, along the Historic Iditarod Trail. Mushers and a team of 14 dogs cover the near 1,000 mile distance in 8–15 days, or more. The Iditarod began in 1973 as an event to test the best sled dog mushers and teams but evolved into today's highly competitive race.
Relay Bike Share is the City of Atlanta's bike share operator. With 500 "smart bikes" and over 70 stations across the city, Relay seeks to be a healthy and enjoyable transportation solution.

Pricing

Pay As You Go -- $3.50 for 30 min.
15¢ per min. afterwards

Monthly Pass -- $15
Annual Pass -- $120

Map by Annie Ni
03/18/19

Data collected from www.census.gov and gis.atlantaga.gov
Bryce Canyon is not a single canyon, but a series of natural amphitheaters or bowls, carved into the edge of a high plateau. The most famous of these is the Bryce Amphitheater, which is filled with irregularly eroded spires of rocks called hoodoos. Perhaps every visitor to the park will spend at least some time marvelling at its four main viewpoints, all found within the first few miles of the park: Bryce Point, Inspiration Point, Sunset Point, and Sunrise Point.
This map shows the parks, bike facilities, and bike sharing stations in the City of Atlanta. The bike facilities are the equipment pieces installed on streets that benefit bike riders, including public bathrooms, traffic barriers, fountains, and more. The bike sharing stations display both proposed and current Relay bike share locations.
As the largest city in Michigan, it makes sense that Detroit is home to many colleges and universities. Many of these are public colleges, however Detroit also contains some private colleges such as Marygrove College.
Within Forsyth County, there is an abundance of park and recreation areas as well as trails that run throughout the county.

Many of these locations reside by rivers which is a benefit for residents who are wanting to experience nature as a whole.
This map shows all of the 2017 police and fire department calls to the Johns Creek departments in the Medlock Bridge neighborhood and surrounding streets. Medlock Bridge is located in northern Fulton County in the state of Georgia. There are a variety of reasons for each call, ranging from good intention calls to house and park fires to burglaries and break-ins.

The Johns Creek Police and Fire Departments opened in 2008, the same year that Johns Creek officially became a city.

Data from Fulton County Geographic Information Systems
The Florida Keys are a string of tropical islands stretching about 120 miles off the southern tip of the U.S. state of Florida, between the Atlantic Ocean and Gulf of Mexico. They’re known as a destination for fishing, boating, snorkeling and scuba diving. The southernmost city of Key West is famous for Duval Street’s many bars, Mallory Square’s nightly Sunset Celebration and the Ernest Hemingway Home and Museum.
The Charlotte-Douglas International Airport (IATA: CLT) is located in Charlotte, North Carolina (Mecklenburg County). CLT is the 11th busiest airport in the United States in the category of passengers per year. This map depicts the emergency services located near CLT, including hospitals, fire stations, police offices, and transportation routes.
Located in central and southwestern Vermont, the Green Mountain National Forest is the only public, federally managed national forest in Vermont. The large expanse of territory covers over 400,000 acres of land, and includes many historic sites. Scenic forests combined with rugged mountains provide a wide range of recreational activities to visitors, including hiking, skiing, biking, fishing, hunting, and more.

Info: fs.usda.gov and nationalforests.org

Data Sources:
geodata.vermont.gov
census.gov/geo
statcan.gc.ca
bts.gov/maps

Projection: NAD83 Vermont
Map by Chloe Thomas
This map displays the public streets and sidewalks in Sandy Springs, GA inside the perimeter of Interstate 285. It is interesting that there is a lack of sidewalks in the South-West of the city because there are many neighborhoods, parks, schools, and trails in this area.

The datasets on this map were all downloaded from ArcGIS Hub.
Wales is one of the four countries that make up the United Kingdom and one of the three countries that make up the island of Great Britain. It has two official languages, English and Welsh (Cymraeg), and a population of 3.1 million (2018). The largest cities are located in the south, and they are Swansea, Newport, and the capital, Cardiff.
The Massachusetts Bay Transportation Authority, more commonly known as the T, is one of the oldest public transit systems in the United States. It's also the largest transit system in Massachusetts. As a division of the Massachusetts Department of Transportation (MassDOT), the MBTA provides subway, bus, Commuter Rail, ferry, and paratransit service to eastern Massachusetts and parts of Rhode Island.
Marta was established in 1965 in order to boost economic development and make public transportation a reliable service. There are now 740 bus stops and 48 miles of rail that have been developed within and around the city of Atlanta. Marta has built walkable, livable communities that put everything riders could need within walking distance from the bus or rail the rider is on.

Data from arcgis.com and gis.atlanta.gov
Map by Steffi Harrisson
This map shows the Ohio state, USA cities, the network of interstates lines, major roads inside the state which is interconnected. At the south direction river is passing which is at the border of the Ohio state.
Colorado is a state of the Western United States and is the 8th most extensive and 21st most populous U.S. state. The state was named for the Colorado River, which early Spanish explorers named the Río Colorado for the ruddy silt the river carried from the mountains.

Colorado is noted for its vivid landscape of mountains, forests, high plains, mesas, canyons, plateaus, rivers and desert lands. Colorado is part of the western and southwestern United States, and is one of the Mountain States.

Denver is the capital and most populous city of Colorado. Residents of the state are known as Coloradans.

Data Sources acquired from:
- Census.gov - Colorado
- Colorado DOT
- Colorado View GIS
- USDA Data Gateway - Colorado
- Colorado Wikipedia

Map by Valeria Vega
Luxembourg is situated in between Belgium, Germany and France. Measuring only 998 square miles, it is the 25th smallest country in the world. Luxemburg has a rich history, it's own unique language, and is one of the world leaders in international banking. It's location has put it in the middle of many conflicts throughout time including both world wars. It has been a strategic geographical location since the medieval times and as a result it has a staggering 130 castles concentrated in it's small area.

The Grand Ducal Palace in Luxembourg City. Built in 1572, This is a magnificent crown jewel of the capital city and is also the residence of the Grand Duke and his royal family.

Esch-sur-Sûre Castle located in Esch-sur-Alzette was built in 13th century in a romanesque, gothic style mostly ruins remain today. It was acquired by the state in 2005 and is currently undergoing restorations.

Clervaux Castle located in Clervaux was built in the 15th century. It was burned during WW2 in the battle of the bulge but has since been fully restored and is open to the public as a historic site and museum.

Source: https://mapcruzin.com/free-luxembourg-arcgis-maps-shapefiles.htm
Harvard University
Architecture Walking Tour

Harvard University is an Ivy-League private university in Cambridge, Massachusetts. The stately campus is filled with historic and modern architectural wonders.

Do you have 30 minutes to spare?

Hop off at the Harvard Square Metro Station (on the Red Line) and follow this map to discover 7 of Harvard's most notable buildings.

Map by: Noah Sannes (3/14/2019)
8 Datasets: cambridgema.gov; MGIS data
7 Images: wheretraveler.com; wikipedia.com
This map includes the location of job centers and rail roads in the state of South Carolina, as well as the number of recycling centers and average hourly wage by county. The number of recycling centers was derived from data contain the locations of all centers in the state, using the division tool. This map was created by Ian Mortensen with data obtained from the South Carolina department of commerce and the South Carolina department of transporation.
The Silver Comet Trail is a multi-use path for bicycling, running, walking, and skating near Atlanta, Georgia. The Silver Comet Trail is a 61.5 mile, 12 feet wide, car-free concrete path that connects the Smyrna, Georgia (NW of Atlanta) to the Chief Ladiga trail at the Georgia-Alabama state line. There are multiple access points to the trail, including many with parking, restrooms and picnic areas. The trail traces the route of the “Silver Comet” passenger train line that operated from 1947 to 1969. Passenger service discontinued in 1969 and the line was used for freight until abandoned by CSX in 1989. The Georgia DOT purchased the land in 1992, construction on the trail began in 1998 and the rail-to-trail conversion was completed in 2008. Together with the Chief Ladiga trail, which meets the Silver Comet at the state line, the Silver Comet forms a 96 mile path – the longest paved multi-use trail in the United States.
South Carolina is the Palmetto State, named after the state tree, the sabal palmetto. Although not pictured completely in this map, 67% of South Carolina is covered in forests, producing one of its biggest natural resources, the loblolly pine.
Chattanooga, Tennessee supports a thriving tourism industry in its Downtown and surrounding areas with above average public bus coverage, dedicated parking facilities, and its Bike Chattanooga Program. Through this program, tourists and locals alike can purchase passes granting access to rideshare bikes at the stations pictured in the map.

Map by Matthew Huntt
3/25/19

Sources: TN Dep. of F&A, Chattanooga Public Library, Bike Chattanooga
Zoning and Transportation in Uptown Charlotte

Zoning Categories
- Commercial
- Industrial
- Multi-Family Residential
- Single Family Residential

Uptown, the central business district of Charlotte, North Carolina, is the city's hub for finance, culture, offices, restaurants, and high density development. This map features property zoning categories in and near Uptown, as well as an overlay of the public transportation options available in the area.
The State of Colorado legalized marijuana for recreational use in January 2014. However, not all counties permit recreational cannabis businesses to operate. Surprisingly, only 25 of Colorado’s 64 counties do not have a ban on recreational cannabis businesses.

The total number of marijuana arrests has decreased by 52% between 2012 and 2017. The arrest rates (# of arrests per 100,000 people) for marijuana-related violations has been recorded, analyzed, and mapped for each county with available data.

**County Regulatory Policy on Recreational Marijuana Businesses**

- **No Ban**
- **Ban**

Map by Noah Sannes, April 2019. Sources: Colorado DPS, MGIS, Westword.com
70,237 drug overdose deaths occurred in the United States in 2017. The age-adjusted rate of overdose deaths increased significantly by 9.6% from 2016 (19.8 per 100,000) to 2017 (21.7 per 100,000). Opioids—mainly synthetic opioids (other than methadone)—are currently the main driver of drug overdose deaths. Opioids were involved in 47,600 overdose deaths in 2017 (67.8% of all drug overdose deaths). In 2017, the states with the highest rates of death due to drug overdose were West Virginia (57.8 per 100,000), Ohio (46.3 per 100,000), Pennsylvania (44.3 per 100,000), the District of Columbia (44.0 per 100,000), and Kentucky (37.2 per 100,000). States with statistically significant increases in drug overdose death rates from 2016 to 2017 included Alabama, Arizona, California, Connecticut, Delaware, Florida, Georgia, Illinois, Indiana, Kentucky, Louisiana, Maine, Maryland, Michigan, New Jersey, New York, North Carolina, Ohio, Pennsylvania, South Carolina, Tennessee, West Virginia, and Wisconsin.
When Congress passed the Endangered Species Act (ESA) in 1973, it expressed concern that many of our nation's native plants and animals were in danger of becoming extinct. There are currently over 600 animal species listed as endangered or threatened by the US Fish and Wildlife Service. Species become endangered for two main reasons: loss of habitat and loss of genetic variation. You can learn more at: https://www.fws.gov/endangered/index.html.
This map shows the density of major military installations, ranges, and training areas across the United States. This includes active duty, reserve, and National Guard bases as well. The points on the map represent the actual geospatial locations of these facilities. This data was released by the Department of Defense.

Note: the ranges for labeling density were multiplied by 1000 to display numbers greater than one.
Mapping the Belt and Road Initiative

The Belt and Road Initiative, or BRI, is a Chinese foreign policy program aimed at building up Chinese financial and "soft" power abroad. Here, two key parts of the BRI--investments and construction contracts--are shown. Note the high concentration of Chinese investment around the highly disputed South China Sea (shown in the inset at right). The shaded areas in that map are the waters and island chains that China has claimed as its own in recent years.

Map by William A. Emken
Data Courtesy of the American Enterprise Institute, the Center for Strategic and International Studies, and Schuyler Earle

Countries and BRI Investment
BRI Investments and Construction Contracts ( Millions USD )

- 1 - 2,000
- 2,001 - 3,500
- 3,501 - 7,000
- 7,001 - 16,000
- >15,000

Miles
The Automated Wreck and Obstruction Information System (AWOIS) contains information on over 10,000 wrecks and obstructions in the coastal waters of The United States. This information valuable to marine Archeologists, historians, fishermen, divers and others in the marine community. Notably, the map does not seem to demonstrate a correlation between windspeed and wrecks.

Multibeam data collected on an underwater wreck found in the Gulf of Mexico

Intuitively, it is expected that the distribution of airports evades the highest wind speeds. However, the map does not seem to show a trend of evasion. Massachusetts airports seem to be uniformly distributed throughout the state regardless of windspeed.
This map shows how accessible each of DC’s eight wards are via public transit. This is done through displaying the transit stop density of each ward calculated by total number of stops in the ward divided by the area of the ward in square miles. This map can be used to study properties of the city such as property values, development density, and income inequality.
California is home to many natural disasters. This map shows dangerous counties to live in based on fire hazard severity, landslide susceptibility, surface rupture points and triggered slip points. The larger the number and circle on the danger index, the more dangerous a county is to live in.

Map by Valeria Vega

Sources:
- California Department of Conservation
- California Department of Forestry and Fire Protection
- California Government Operations Agency
- Census.gov
The USA State of Georgia contains 472 total airports. However, only 7 of them publically serve over 10,000 passengers per year. The majority of the airports are small, private airports which can be used for military purposes, reliever airports, or private trips. It is still important to know where each airport is, however, in case of emergencies. This map provides information on how many airports are located in each county in the state of Georgia. Fulton County has the most at 23 airports.

Data from http://hub.arcgis.com/
Both the human and black bear population have been expanding in Florida which has caused an increase in interaction between both species. This increase in interaction has unfortunately caused an increase in black bear deaths caused by humans, but also protective measures taken to protect the long-term well-being of black bears. According to the Department of Transportation, approximately 230 bears are killed each year on roadways. The government is trying to reduce this number by supporting the use of government land as sanctuary for bears and also by banning the harvest of black bears' normal food, saw palmetto berries. It was also an idea to ban the sale of timbering rights to acorn-producing oaks. In the meantime, Florida residents, especially in abundant areas, should be aware of black bears in residential areas.
The history of castles begins with the fall of the Roman Empire in 476 B.C. With this came the decentralization of power in Europe around the 5th century. Due to the lack of government, it became necessary for people to provide protection for themselves in the form of fortified homes and hired soldiers. Feudal lords with power and money built bigger and grander homes which eventually became many of the large castles we see today.

However, A castle in the most simplistic sense starts with only a central keep, the place that the Lord and his family reside. Many castles in Europe were these simple small structures that many people mistake for watch towers. Additional battlements, walls, gate houses and fortified bridges were ideal, but only added if the Lord had the money and resources to do so. In fact, throughout the middle ages, most castles were made out of wood. It was a far more abundant material, cheaper, and required less skilled craftsmen to create. Despite their abundance, not a single one of these wooden castles remains today.

Traditional castles fell out of favor around the 15th century as gunpowder and firearms became more prevalent. Stone walls could no longer defend against the bombardments. As a result, a shift towards more modern, thick walled, brick and earthen star forts came to the rise.
According to the Population Reference Bureau (PRB), tornadoes are the 5th highest cause of death by natural disasters.

Knowing where tornadoes are most common may be beneficial to you and your family. Take precautions if you live in a state where tornadoes are most likely.

Sources: https://www.spc.noaa.gov/gis/svrgis/ https://www.prb.org/disasters-by-type/  
Map By: William Ortiz