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The license may not give you all of the permissions necessary for your intended use. For example, other rights such as publicity, privacy, or moral rights may limit how you use the material. GIS is a technology that is used to create, manage, analyze, and map all types of data. GIS connects data to a map, integrating location data (where things are) with all types of descriptive information (what things are like there). This provides a foundation for mapping and analysis that is used in science and almost every industry. GIS helps users understand patterns, relationships, and geographic context. The benefits include improved communication, efficiency, management, and decision-making. GIS is a multi-faceted discipline built that incorporates a variety of technologies and concepts. To really understand the capabilities of GIS, it is important to learn cartography, spatial and statistical analysis, database management, and programming. Looking to get started in GIS? This GIS 101 page is the launch page for accessing information about GIS on this site. Find information about what GIS is, the basics of GIS (data, software, etc.), career advice in GIS including where to find a job and GIS internships, plus access to GIS concept pages. table of contents What is GIS? - starting page for understanding what Geographic Information Systems is. Read about the basic premise of what GIS is. GIS Glossary - glossary of common geospatial terminology. Understanding scale – What is map scale, and how does scale affect feature representation on a map. What's in a Map? - Understand the basic elements that make up a well formed map. Basics of a Map - Introductory text about maps, resolution, and cartographic design principles. Power of Mapping – Maps are a powerful tool in spatial analysis, helping problem solvers on many levels. Ten Things to Consider When Making a Map – effective cartography involves making careful design choices. Cartographic Resources – Resources for learning more about cartography and cartographic techniques. Area Cartograms Explored – A look at contiguous, noncontiguous, and Dorling cartograms as a way of representing quantitative data by area. Heat Maps and GIS – What are heat maps, hot spot analysis, and density surfaces? Spatial Unmapped – Innovative ways of displaying geographic data with using a map. Time and GIS – Exploring the ways and challenges of representing time on a map. What is a Map Projection? – Introductory text about map projections Types of Map Projections - This article explores map projections, illustrating how cartographers translate the globe's three-dimensional curvature into two-dimensional representations, each with its unique advantages and distortions. State Plane Coordinate System – Explanation of this United States based coordinate system. Measuring Map Distortion: Tissot's Indicatrix – Tissot's Indicatrix is a tool used in cartography to illustrate the distortion of shapes, sizes, and angles caused by projecting the globe onto a flat map, through a series of circles that transform to show how spatial properties vary across the projection. GIS Data – describes the different types of GIS data and where to find GIS data on the Internet for downloading. GIS Data: A Look at Accuracy, Precision, and Types of Errors Metadata – Data about the data. Geodatabases Explained – Unfamiliar with the types of spatial datasets? This is a good introductory article on the different types. About Elevation – Over hill and dale ... what different ways can elevation be depicted? From DEMs to Hypsography, different elevation types described. Geocoding 101 – A basic overview of what geocoding is with a step-by-step example using ArcView. Find out how to map out your addressed databases. Orthophotos and GIS – Aerials and orthorectification – it's all about removing distortion. Find out how digital imagery can help your GIS. There is a growing number of options for GIS software from commercial and open source desktop GIS to web mapping to the GeoCloud, the use of GIS capabilities via cloud computing. The GIS software launch page contains further resources for learning about commercial GIS, open source GIS, web mapping, and more. Visit: GIS Software How to Learn GIS – With its multi-faceted approach, learning GIS can seem daunting. Fortunately there are a wealth of approaches you can take to get started. From structured curriculums to distance learning and online tutorials, check here to find out more. Where to Learn GIS – Learn about your choices for online GIS training (aka distance learning) and certificate programs. GIS Primer – From Pacific Meridian, a nicely organized primer on the basics of implementing and understanding a GIS. Customizing GIS applications is a core component of many GIS analysts and GIS developer positions. Visit the Learning Programming for GIS launch page for information about the different programming languages in use for GIS. The page lists the major languages such as Python that in use as well as pointers to further resources. by GIS Resources / 03/23/2021 A geographic information system (GIS) is a process that is intended to capture, store, manipulate, analyze, and present all types of geographical data. The essential word in this definition is "geography," which means that some portion of the information is spatial. In other words, GIS works with data that centers around locations on the earth. In addition to this data, there is usually tabular data known as attribute data. Attribute data is traditionally defined as supplementary information about each of the spatial features. A good example of this is schools. The precise location of schools is what we call spatial data. Information such as the school's name, what level of education they teach, the capacity of students they can accommodate, etc., make up the attribute data. Through this combination of spatial and attribute data, GIS can be such an efficient problem-solving tool through spatial analysis. However, it's important to note that GIS mapping software is more than just a software program. It involves the combination of people and methods with geospatial software and tools to manage large datasets, enable spatial analysis, and display information in a map or graphical form. How Does GIS Work? GIS maps allow you to display location-based data in layers. You can only see a limited number of data sets with two-dimensional maps before things become disorganized and ineffective. This is where GIS comes in. GIS generally consists of the following elements: Maps: shareable maps that have geographic data layers.Data: spreadsheets, tables, and imagery with a geographic component that connects the data to a particular location.Analysis: using spatial analysis, you can enhance the decision-making process by getting insights that provide users with more confidence when interpreting and predicting situations.Apps: GIS is not tied to the desktop. You can use GIS on mobile apps, so it's accessible anywhere at any time. Although each application is different, these systems are pretty much all alike in the way they function. This is because all GIS tools analyze and visualize spatial data. This includes location information like address, longitude, and latitude. In general, they perform these tasks in three steps: Visualize data: Displaying geographic dataCombing data: Layers of data are combined to form mapsQuery data: Geographic queries look for values in the layered data What You Can Do with GIS GIS is a useful tool in both decision-making processes, problem-solving, and data visualization in a spatial environment. By analyzing geospatial data, we can determine: The location of features and their relationship to other features With GIS, you can map where things are. Basically, you're able to map the spatial location of real-world features and see the spatial relationships between them. Where the most or least amount of particular features exist GIS allows you to maps quantities, such as where the most or least amount of features are. You can also map quantities to find places that meet your criteria or see the relationship between places. The density of features in a given space It can be important to understand the concentration of features in a particular place. Activity that is happening in an area of interest It's possible to use GIS to see what is happening or what features are located within a particular area or region. This can be done by determining the characteristics of "inside" by making specific criteria to define an area of interest. Activity that is happening near a feature or phenomenon Using GIS, you can determine what is happening within a specific distance from a feature or event by mapping out what is nearby using geoprocessing tools. The ways in which a specific area has changed over time You can map the change of a specific geographic area so as to anticipate future conditions, decide on a course of action, or analyze the results of an action or policy. Summary GIS stands for Geographic Information System. This system uses computers and software to collect, manage, and analyze data based on geography. It then visualizes said data on a map. This mapping software uses spatial data in the creation of maps and 3D models out of layers of visual information, showing patterns and relationships in the GIS data. While each software program is different, most systems work in a similar way. They analyze and visualize location information like address, latitude, and longitude. This is done by first displaying the data visually, then combining the various data layers to create maps, before finally searching for values in the layered data. Also Read: Confused Between DEM, DTM and DSM? Tags: Geographic Information System Close Window Loading, Please Wait! This may take a second or two. Hundreds of thousands of organizations in virtually every field are using GIS to make maps that communicate, perform analysis, share information, and solve complex problems around the world. This is changing the way the world works. Read about how the Amazon once flowed east to west and how the strength of Hurricane Isaac once change the course of the Mississippi river. Read More Explore viewers for visualizing GIS vector data in shapefile format, available for both desktop and web browsers. Categories Select Category Geography Basics GIS and Geospatial Technologies Human Geography Maps and Cartography Physical Geography The systems of the earth can be divided into two main areas: geosphere and biosphere. Measuring the economic benefits of wildlife and outdoor areas supports conservation with tools like the NPS Visitor Spending Effects. It was a serendipitous meeting on an airplane that launched what is now a global industry with a market value in the tens of billions of dollars. Onboard a flight in 1961, Roger Tomlinson (whose contributions to geographic information systems (GIS) earned him the nickname, "Father of GIS") met Lee Pratt, the recently named head of the Canada Land Inventory who had been tasked with developing a land map covering one million square miles in order to manage agricultural land, forests, wildlife, and identify land suitable for tourism (Morais, 2012). Tomlinson proposed a solution using computerized spatial data and thus modern GIS was born. In the more than fifty years since, GIS has grown into a technology that can be applied in almost all disciplines needing to understand patterns across space and time. Members of the geographic information community have seen this technology evolve from command line, workstation-based software to complex geospatial tools that can now be used via web browsers and via mobile devices. What is GIS? This is probably the most asked question posed to those in the Geographic Information Systems (GIS) field and is probably the hardest to answer in a succinct and clear manner. GIS is a technological field that incorporates geographical features with tabular data (otherwise known as attribute data) in order to map, analyze, and assess real-world problems. The key word to this technology is Geography – this means that some portion of the data is spatial or geographical in nature. GIS data is in some way referenced to locations on the earth. Coupled with this geospatial data is tabular data known as attribute data. GIS data formats are created from a variety of historic and real-time sources such as field GIS data collection, GPS, LIDAR, satellite imagery, aerial photographs, and remote sensing. GIS data is used to analyze geographic phenomena, as basemaps, and to produce visualizations in the form of maps through the use of GIS software such as ArcGIS, QGIS, or GRASS GIS. Parcel data is a form of cadastral GIS Data showing the boundaries and attribute information about properties in a given area. Map: Caitlin Dempsey. Attribute data can be generally defined as additional information about each of the spatial features. An example of this would be schools. The actual location of the schools is the spatial data. Additional data such as the school name, level of education taught, student capacity would make up the attribute data. It is the partnership of these two data types that enables GIS to be such an effective problem solving tool through spatial analysis. GIS operates on many levels. On the most basic level, geographic information systems technology is used as computer cartography, that is for straight forward map making. There are numerous ways in which GIS is used across different industries. A few examples are: Emergency response teams normally use GIS when they want to collect logistics with regards to how they will move in times of natural disasters (see: Predicting Natural Disasters and Humanitarian Crises through GIS). The system also comes in handy when authorities want to discover any potential wetlands that need to be protected from the harmful effects brought about by pollution. Companies also take advantage of the GIS so that they may be able to choose a strategic market location that has not yet been saturated by other competitors in the particular niche industry. Management personnel use this system also so that they can be able to locate areas that are bound to suffer from catastrophe with regards to the infrastructure that is in place there. Any potential spread of diseases & other such like pandemic are usually limited by the use of the GIS since the patterns of their occurrence is predicted in sufficient time. For more detailed articles highlighting how GIS is used in many industries visit: The real power of GIS, however, is through using spatial and statistics to analyze attribute and geographic information. Analyzing and mapping geospatial data is used to provide insights to help the decision-making process that wouldn't be obvious by looking at the tabular records of a database or spreadsheet. The end result of the analysis can be derivative information, interpolated information or prioritized information. Data layers are analyzed in order to answer different spatial questions. GIS maps are then produced that visualize the analyzed location data. Some examples of the types of questions that GIS is used to answer might be: The end product of any GIS analysis is typically a map. This could be a printed map or an online mapping product like ArcGIS Online. GIS cartography refers to the use of GIS tools to create maps and visualize spatial data. I Getting starting in GIS? These GIS FAQs (frequently asked questions) can provide pointers to learning GIS, building a GIS career, finding a GIS job, and other topics involving cartography, geospatial technologies, and maps. Frequently asked questions answered in this section: Are GIS and geospatial the same? What are the different types of GIS data? What is the difference between a certificate and certification in GIS? How do I get a GIS job? What programming languages should I learn? Learning GIS questions How do I start learning GIS? Where can I find examples of what GIS can do? How do I keep up with what's going on in GIS? There is an increasing trend to use the term geospatial instead of GIS. So, what is the difference between geospatial and GIS? Although some may use the terms interchangeably, there is a distinct difference between the two in that GIS refers more narrowly to the traditional definition of using layers of geographic data to produce spatial analysis and derivative maps. Geospatial is more broadly use to refer to all technologies and applications of geographic data. For example, popular social media sites such as Foursquare and Facebook use "check-ins" that allow their users the ability to geographically tag their statuses. While those applications are considered to be geospatial, they don't fall underneath the stricter definition of what makes up a geographic information system. More: What's is the Difference Between GIS and Geospatial? Although the terms seem similar, a certification in GIS is an acknowledgement of proficiency in one or more areas of GIS, usually obtained through taking an examination. For example, the most common general certificate in GIS is the GISP, offered by the GIS Certification Institute (GISCI). Esri offers a series of certification exams for its various software products. A certificate in GIS typically achieved by taking short series of GIS related courses from an educational institute, culminating in that institute offering a piece of paper acknowledging completion of the course. A certificate in GIS is not a degree but often employers might accept a certificate in GIS in lieu of a degree in a geography or GIS related major. More: GIS Certification versus Certificate Programs. Beyond taking coursework GIS, cartography, and programming, there are several strategies you can employ as you seek a career in GIS. To learn more these articles are recommended: Building a GIS Career, Tilting the GIS Job Hunting Odds, and Ten Tips to Prepare for a GIS Job Interview. Find out the salary ranges for a GIS position in your area with the salary survey links. Python is the most common language for scripting in GIS, used by both ArcGIS and QGIS. There are other languages and scripting languages you can learn to round out your skills as a GIS developer: Learning GIS Programming Q. How do I start learning GIS? A. There are many places and ways to start learning GIS. If you want to try learning on your own start by taking online GIS Tutorial course. For a more guided independent study course you might want to explore Distance Learning. More and more institutions are offering on-site GIS courses and certification. Q. How do I keep up with what's going on in GIS? A. There are a host of ways to stay up to date on trends in GIS and geospatial technologies. In addition to reading through articles on sites like Geography Realm, you can track relevant posts on social media, attend GIS conferences to hear about what other people are doing, and find local GIS user groups. GIS data, also referred to as geospatial data, can be split into two main categories: vector and raster data. Vector data is data that is represented as either points, lines, or polygons. Raster data is data that is cell-based such as aerial imagery and elevation data. More: Types of GIS Data Explored: Vector and Raster Q. How do I find out about GIS software? A. There are both commercial GIS and open source GIS software programs and tools available. "In the strictest sense, a GIS is a computer system capable of assembling, storing, manipulating, and displaying geographically referenced information, i.e. data identified according to their locations. Practitioners also regard the total GIS as including operating personnel and the data that go into the system." ~ USGS "A geographic information system (GIS) is a computer-based tool for mapping and analyzing things that exist and events that happen on earth. GIS technology integrates common database operations such as query and statistical analysis with the unique visualization and geographic analysis benefits offered by maps." ~ Esri "GIS is an integrated system of computer hardware, software, and trained personnel linking topographic, demographic, utility, facility, image and other resource data that is geographically referenced." ~ NASA "A geographic information system is a special case of information systems where the database consists of observations on spatially distributed features, activities or events, which are definable in space as points, lines, or areas. A geographic information system manipulates data about these points, lines, and areas to retrieve data for ad hoc queries and analyses" (Kenneth Dueker,Portland State University, 1979). GIS has already affected most of us in some way without us even realizing it. If you've ever used an Internet mapping program to find directions, congratulations, you've personally used GIS. The new supermarket chain on the corner was probably located using GIS to determine the most effective place to meet customer demand. A Short History of GIS One of the most famous early examples of spatial analysis can be traced back to London in the year 1854 when Dr. John Snow using disease mapping to publish his interpretation of the source of a cholera outbreak (More: John Snow's Cholera Map using GIS Data). The map that Snow came up with was very interesting in that it had the capability of analyzing the phenomena relating to their geographical positions and this was the first time the world was witnessing this. Photozooceography was developed in the earlier years of the 1900s and this enabled the maps to be divided into various layers as required. In the initial stages, the process of drawing these maps was lengthy since it involved free hand but this changed later on with the introduction of the computer. John Snow's 1854 Cholera Map. The first GIS was created by Dr. Roger Tomlinson and then introduced in the early 1960s in Canada. This system was designed to assist the Canadian government in managing land resources and planning for the future. CGIS allowed for the digital storage and manipulation of geospatial data, laying the groundwork for modern GIS. Prior to this, mapping by the use of computers was being used for such cases but this is a method that had numerous limitations associated to it. By the end of the 80s period, the use of GIS had already become popular in other related fields which is why it led to a spur in the growth of the industrial sector. Esri produced the first commercial GIS software with its introduction of ARC/INFO in the early 1980s. The introduction of ArcView, a Windows-based and more user intuitive desktop application for viewing geospatial data and mapping maps, helped to bring GIS into the mainstream. (Fun fact: ESRI is an acronym for Environmental Systems Research Institute. Prior to 2010, ESRI was pronounced alternatively as E-S-R-I (pronouncing all the letters) or as "ezezee". In 2010, the company change the spelling from all uppercase letters to Esri and officially declared the pronunciation as "ezezee" to promote the goal of "growing Esri's name globally.") Since then, GIS and other geospatial technologies such as LIDAR, advanced remote sensing instruments on satellites, and drones have propelled the use of GIS into multiple areas. Learn more: History of GIS The next step in understanding GIS is to look at each area and how they work together. These components are: Hardware Software Data People Hardware comprises the equipment needed to support the many activities needed for geospatial analysis ranging from data collection to data analysis. For desktop GIS, the central piece of equipment is the workstation, which runs the GIS software and is the attachment point for ancillary equipment. The use of handheld field technology and mobile GIS is also becoming an important data collection tool in GIS. With the advent of web mapping, web servers have also become an important piece of equipment. Different types of software are important. Central to this is the GIS application package. Such software is essential for creating, editing and analyzing spatial and attribute data, therefore these packages contain a myriad of geospatial functions inherent to them. Extensions or add-ons are software that extends the capabilities of the GIS software package. Component GIS software is the opposite of application software. Component GIS seeks to build software applications that meet a specific purpose and thus are limited in their spatial analysis capabilities. Utilities are stand-alone programs that perform a specific function. For example, a file format utility that converts from one type of GIS file to another. There is also web GIS software that helps serve data and interactive maps through Internet browsers. Geospatial data is the core of any GIS. There are two primary types of data that are used in GIS: vector and raster data. A geodatabase is a database that is in some way referenced to locations on the earth. Geodatabases are grouped into two different types: vector and raster. Vector data is spatial data represented as points, lines and polygons. Raster data is cell-based data such as aerial imagery and digital elevation models. Coupled with this data is usually data known as attribute data. Attribute data generally defined as additional information about each spatial feature housed in tabular format. Sometimes attribute data is stored separately in a spreadsheet file such as Excel or Google Sheets. Attribute data is linked back to geospatial data by relating unique values found in the same populated column in the GIS dataset and the attribute data. Documentation of GIS datasets is known as metadata. Metadata contains such information as the coordinate system, when the data was created, when it was last updated, who created it and how to contact them and definitions for any of the code attribute data. There are many different ways that GIS data can be collected. Head up digitizing the process of tracing GIS data directly on the screen). LIDAR, drones, GPS, and satellites are some of the ways GIS data is created. GIS data layers Source: FDCD Well-trained GIS professionals knowledgeable in spatial analysis and skilled in using GIS software are essential to the GIS process (More: Building a GIS Career). There are three factors to the people component: education, career path, and networking. Taking the right combination of classes, seeking a GIS internship, and attending conferences can all help someone seeking to build a career in GIS. Selecting the right type of GIS job is important. A person highly skilled in GIS analysis should not seek a job as a GIS developer if they haven't taken the necessary programming classes. Finally, continuous networking with other GIS professionals is essential for the exchange of ideas as well as a support community. This article was first written on March 16, 2002 and has since been updated. Want to give your brand videos a cinematic edge? Join our visual experts and special guests for an info-packed hour of insights to elevate your next video project. Tune in on June 24 at 11am ET.Register NowEnjoy sharper detail, more accurate color, lifelike lighting, believable backgrounds, and more with our new model update. Your generated images will be more polished than ever.See What's NewExplore how consumers want to see climate stories told today, and what that means for your visuals.Download Our Latest VisualGPS ReportWant to give your brand videos a cinematic edge? 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