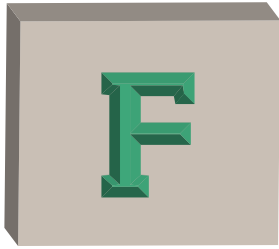


The ABCs of GISc: From F to J



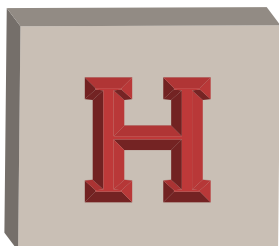
FEATURE

As the lines or shapes used to represent the space and location of a distinct element on a map, features allow GISc professionals to accurately collect and analyze data.¹ Determining how natural features interact with the people and technology surrounding them is one example of how GISc is advancing our knowledge of the world.



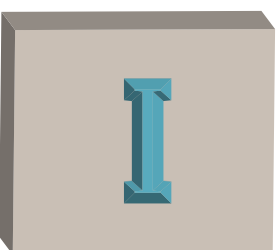
GLOBAL POSITIONING SYSTEM (GPS)

As one of the most commonly utilized elements of geographic information science, a GPS helps us to understand where we are in relation to our surroundings—other people, buildings, natural elements and more. To accomplish this, satellites in space interact with ground stations that connect to our phones and other technologies, which act as receivers that are able to coordinate our position relative to other elements.²



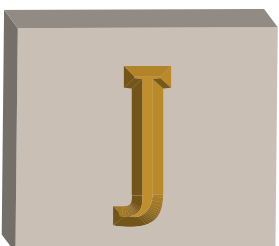
HUFF MODEL

For retailers interested in opening a new location for their brick-and-mortar business, the Huff Model offers data on the store's potential success in a specific location. Using GISc technologies, the model incorporates a store's size and location into census tracts to determine the store's likelihood of success.³



INTERPOLATION

When the values, qualities and attributes of a location are unknown (such as its temperature and elevation), interpolation, or inserting a substitute figure, is used as an approximate or estimated value. To do this, GISc professionals use the known values of nearby points.⁴



JAVA

A computer programming language that allows GISc professionals to virtually manipulate spatial features and objects. This creates a context from which data can be derived and analyzed. Java also allows developers to write programs that can run across multiple platforms.⁵

1. Retrieved on September 17, 2017, from gisgeography.com/gis-dictionary-definition-glossary/#F

2. Retrieved on September 17, 2017, from spaceplace.nasa.gov/gps/en/

3. Retrieved on September 17, 2017, from gisgeography.com/huff-gravity-model/

4. Retrieved on September 17, 2017, from support.esri.com/en/other-resources/gis-dictionary/term/interpolation

5. Retrieved on September 17, 2017, from gislounge.com/java-for-newbies-a-gis-perspective/