

Georeferencing an Image

Aerial image is a very informative representation of Earth's surface. However, it is not a map. While looking at such a photograph, we may not know what part of the world is shown on it and what are the names for different plants, streets, towns, or lakes found on that image? Using GIS to overlay image with other available data layers is the first step in using aerial images.

Helper's Guide

How to Prepare

Each instructor must complete this activity prior to his/her work with explorers. If you have an aerial photo of the area just outside the venue of this activity, use it instead of Capitol.jpg, provided you already have a georeferenced underlying image of the area. For a larger image you can use *Nebraska* project in *4H-GIS* folder and georeference the image with respect to roads, streams, towns or other vector data sets.

Need to Emphasize

- Georeferencing allows relating an aerial image with other spatial data layers.
- Control points are used to match location on a non-referenced image with corresponding locations with known coordinates.

Related Links

- http://webhelp.esri.com/arcgisdesktop/9.2/index.cfm?id=2552&pid=2543&topicname=Georeferencing_a_raster_dataset
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