

Thinking of using GIS but not sure if it is the right tool?

Interested in integrating GIS with your teaching?

Have info in a table but you'd like to see it on a map?

Need GIS data or imagery?

<http://govinfo.ucsd.edu/gis>

**From start to finish, for all levels of experience and people in any discipline, the Geisel GIS Lab is a great resource.**

**The Geisel GIS Lab...the starting point for UC San Diego's GIS needs.**

**IN THE GIS LAB**

- GIS Data
- GIS Workstations
- Dedicated GIS staff
- Project Consultation
- Step-by-Step GIS Help
- Large-Format GIS Printing

**OUTSIDE THE GIS LAB**

- Online GIS Classes
- Classroom and Staff Presentations
- Instructional Workshops
- GIS Community Activities

**JUST FOR STUDENTS**

ArcGIS software (1 year time-out)

**JUST FOR FACULTY & STAFF**

Google Earth PRO (application required)

And this is just a sample ...visit us in the Geisel Library Building on the Main Floor, check out our website, email ([t2hughes@ucsd.edu](mailto:t2hughes@ucsd.edu)) or call (858.534.6854) to find out more!



## What is GIS?



GIS is the acronym for 'geographic information system'. What it does is to allow you to organize, explore, visualize and analyze information in a completely different way – geographically - by using a system of **layers**.

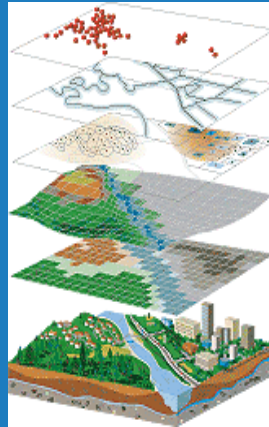
**Layers** represent and model the 'real' world. Because each **layer** has descriptive information (called **attributes** in GIS), you can not only see the layers but you can 'layer the layers' to *ask and answer* your own pertinent questions.

This is what we mean by layers...

Topography as pixels

Land use as pixels

The real world!



Houses as points

Streets as lines

Subdivisions as polygons

These **layers** and **attributes** can represent landscapes, topography, imagery, roads, businesses, demographics, habitats, environmental hazards, soils, economics, ethnicities, transportation, medical facilities, sea floor topography, archaeological sites, immigration, zoning, political events, geographic places, hydrology, or whatever else you can think of!

## What can I do with GIS?



A better question is what can't you do with GIS!

Use GIS in 2, 3 or 4 dimensions...

Ask questions about how close, how far, how dense...

See relationships, patterns and trends...

Model networks or roads or other systems...

VISUALIZE your information in ways you simply cannot with other tools!

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