











BUT

Points alone are not enough!

Terrain representation

- Want visual depiction of the terrain
- Also want quantitative information about heights
- Two often play against each other



| Topographic | |
|---------------------------|-----|
| Index | |
| Approximate or indefinite | |
| Intermediate | |
| Approximate or indefinite | |
| Supplementary | |
| Depression | (@ |
| Cut | C |
| Fill | A 4 |
| Continental divide | |
| Bathymetric | |
| Index*** | |
| Intermediate*** | |
| Index primary*** | |
| Primary*** | |
| Supplementary*** | |

What is a contour line?

- Imaginary line joining points of equal elevation above or below a datum
- Contour lines have a specific contour interval
- Interval is the vertical distance between contours
- CI is a function of scale and units
- Relief is the highest elevation shown minus the lowest

Features of contours

- Contour interval
- Index contours
- Intermediate contours
- Supplementary contours
- Depressions
- Uncertain contours
- · Bathymetry: isobaths









Information OVER the contours



Synthetic illumination



































Movement Depth: Fly-by





Summary: Terrain visualization

- Pictorial
- "Woolly worms"
- Hachures
- Contours
- Colors: Hypsometry
- Block diagrams
- Shading
- Perspective
- True 3D (or 2.5D)