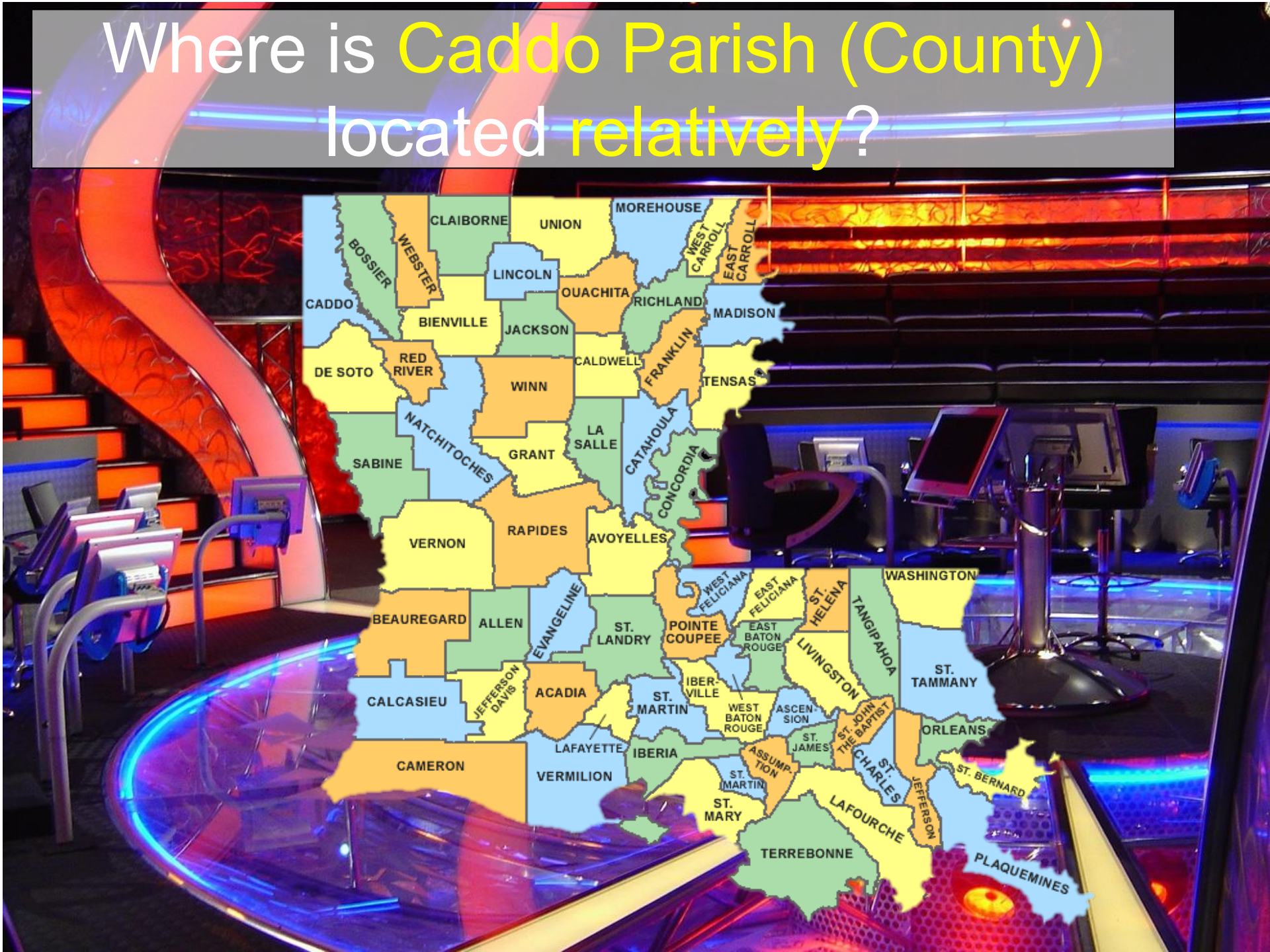
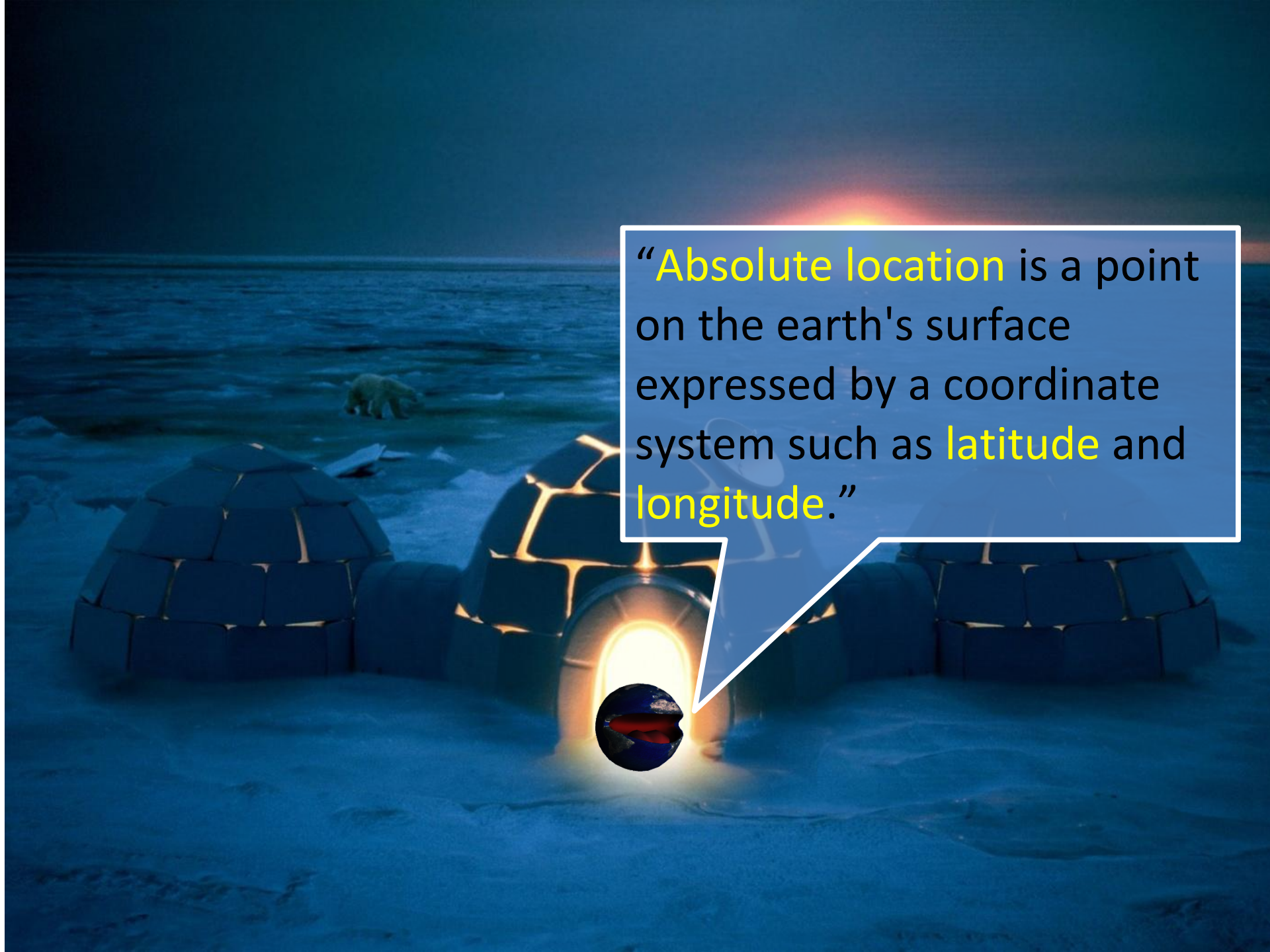
Maps

“Relative location is the position on Earth's surface relative to other features.”

Where is Caddo Parish (County) located relatively?




“Absolute location is a point on the earth's surface expressed by a coordinate system such as latitude and longitude.”

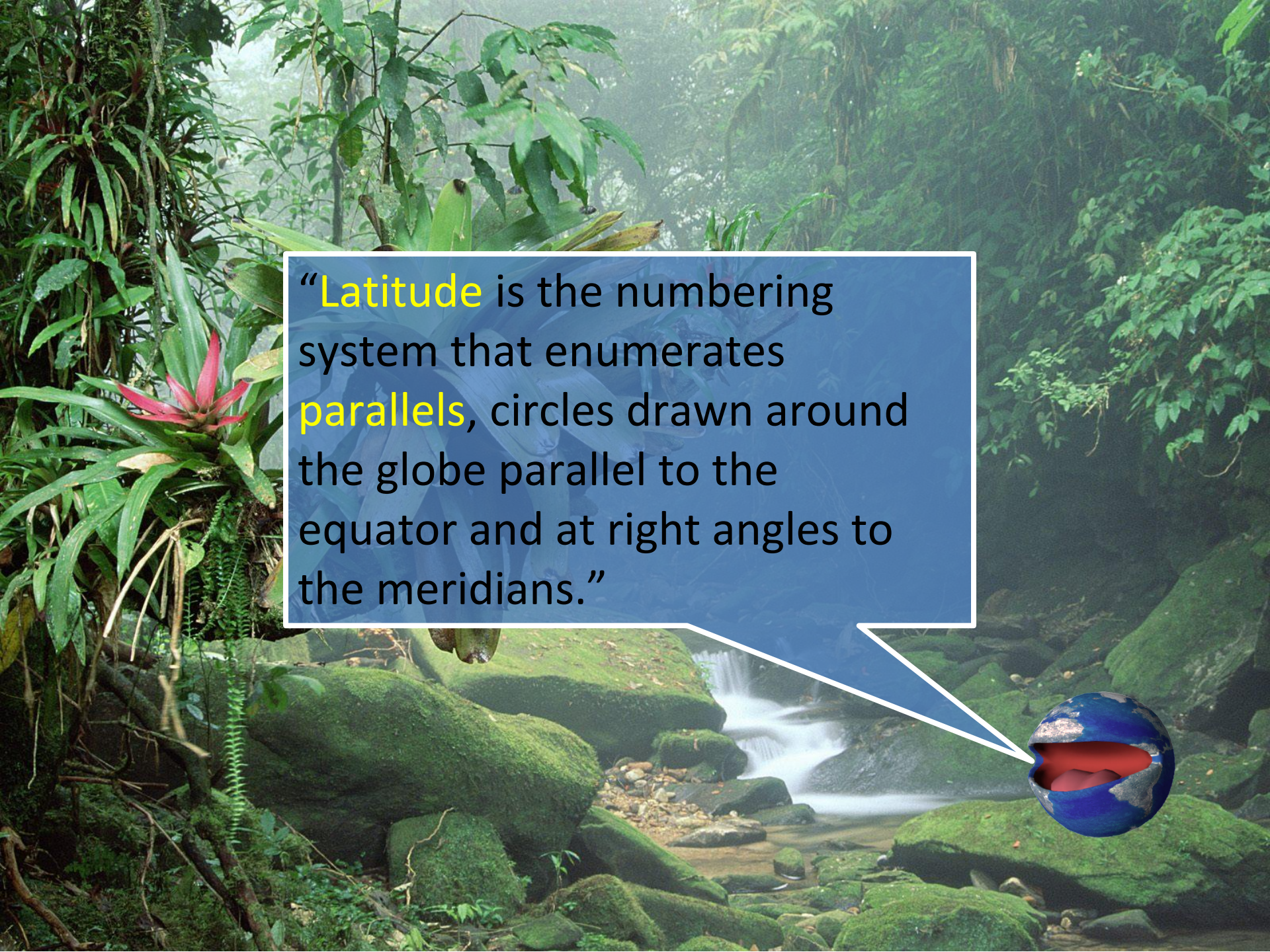
What is longitude?

"Longitude is the numbering system that enumerates meridians, arcs that are drawn between the north and south pole."
CROSSES HERE
AT THIS POINT YOU ARE ¼ OF THE WAY AROUND THE WORLD FROM GREENWICH, ENGLAND

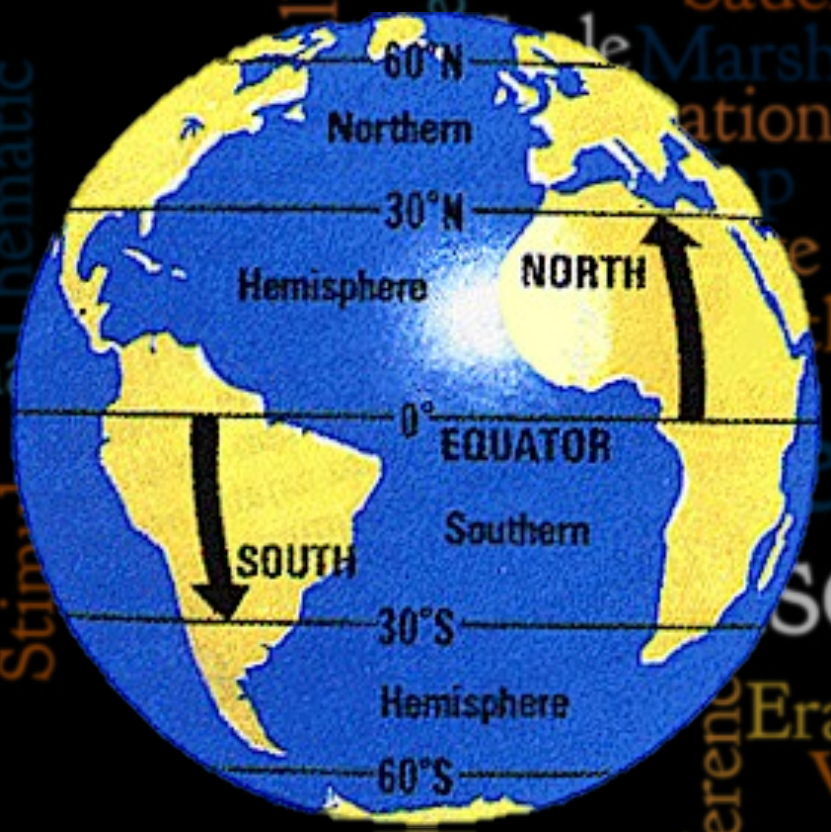
Longitude

0° Longitude runs through Greenwich, England and is known as the Prime Meridian

What is latitude?


“Latitude is the numbering system that enumerates parallels, circles drawn around the globe parallel to the equator and at right angles to the meridians.”

Latitude



0° Latitude is the equator.

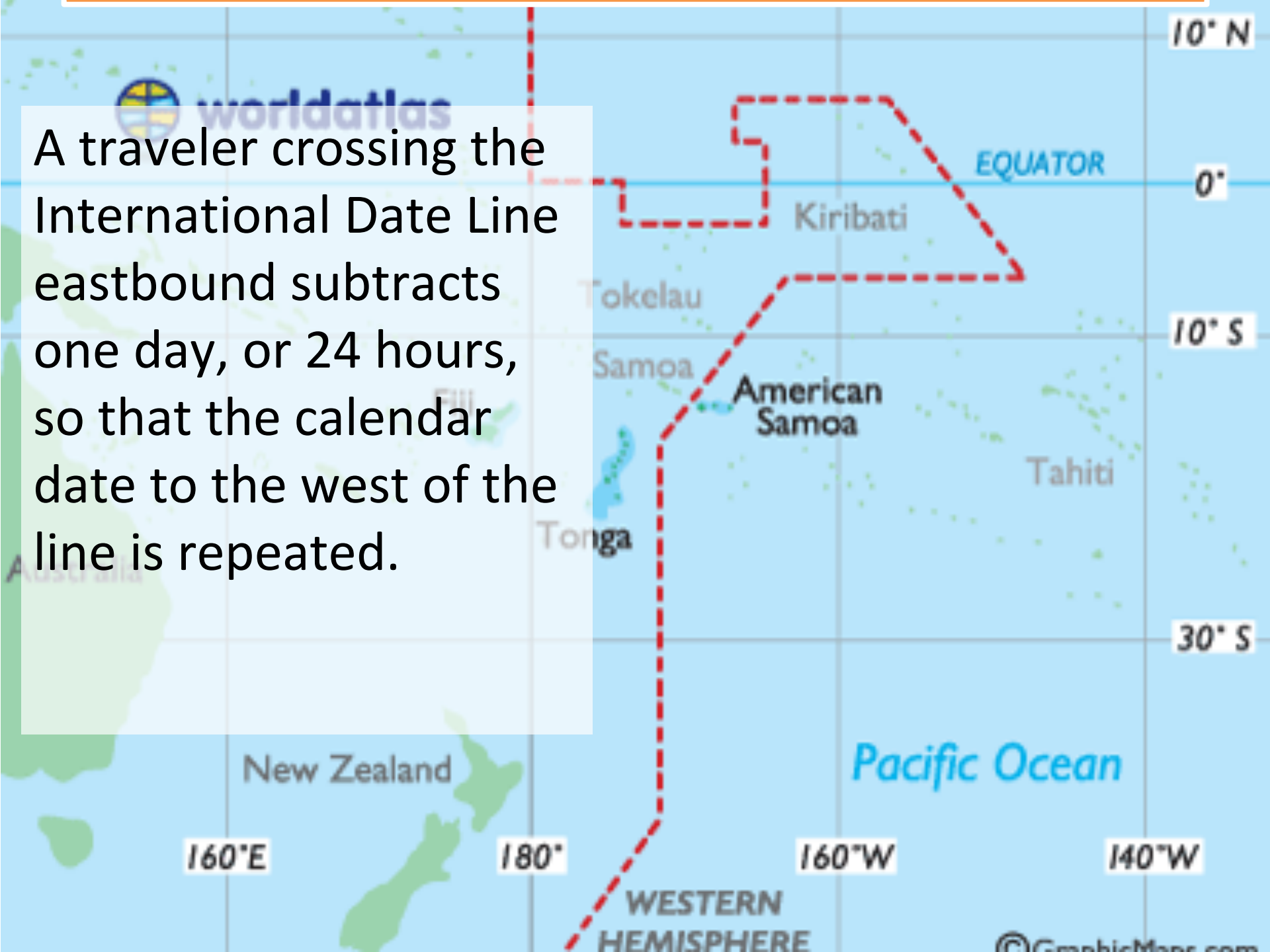
90° north latitude is the north pole.

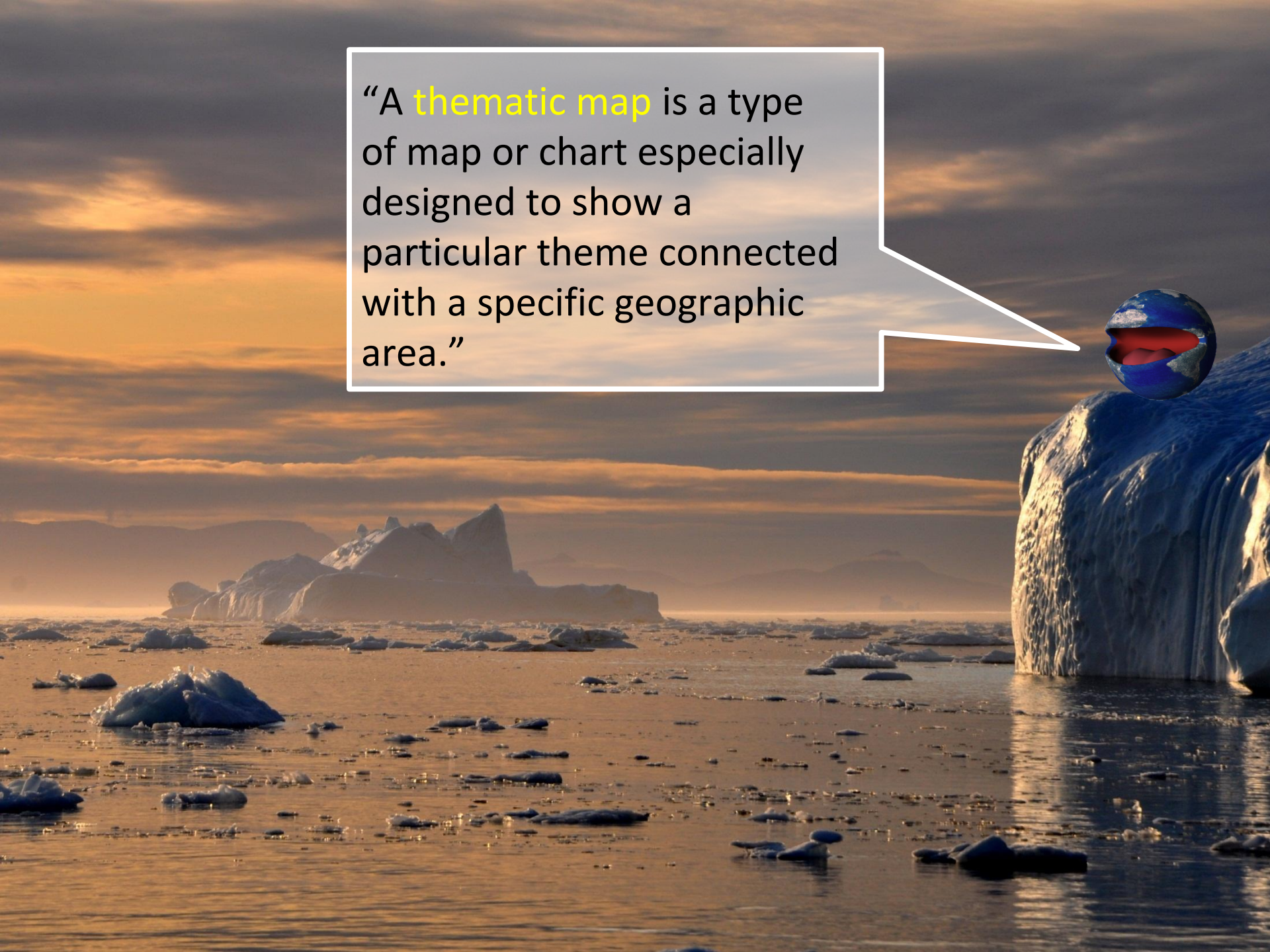
90° south latitude is the south pole.

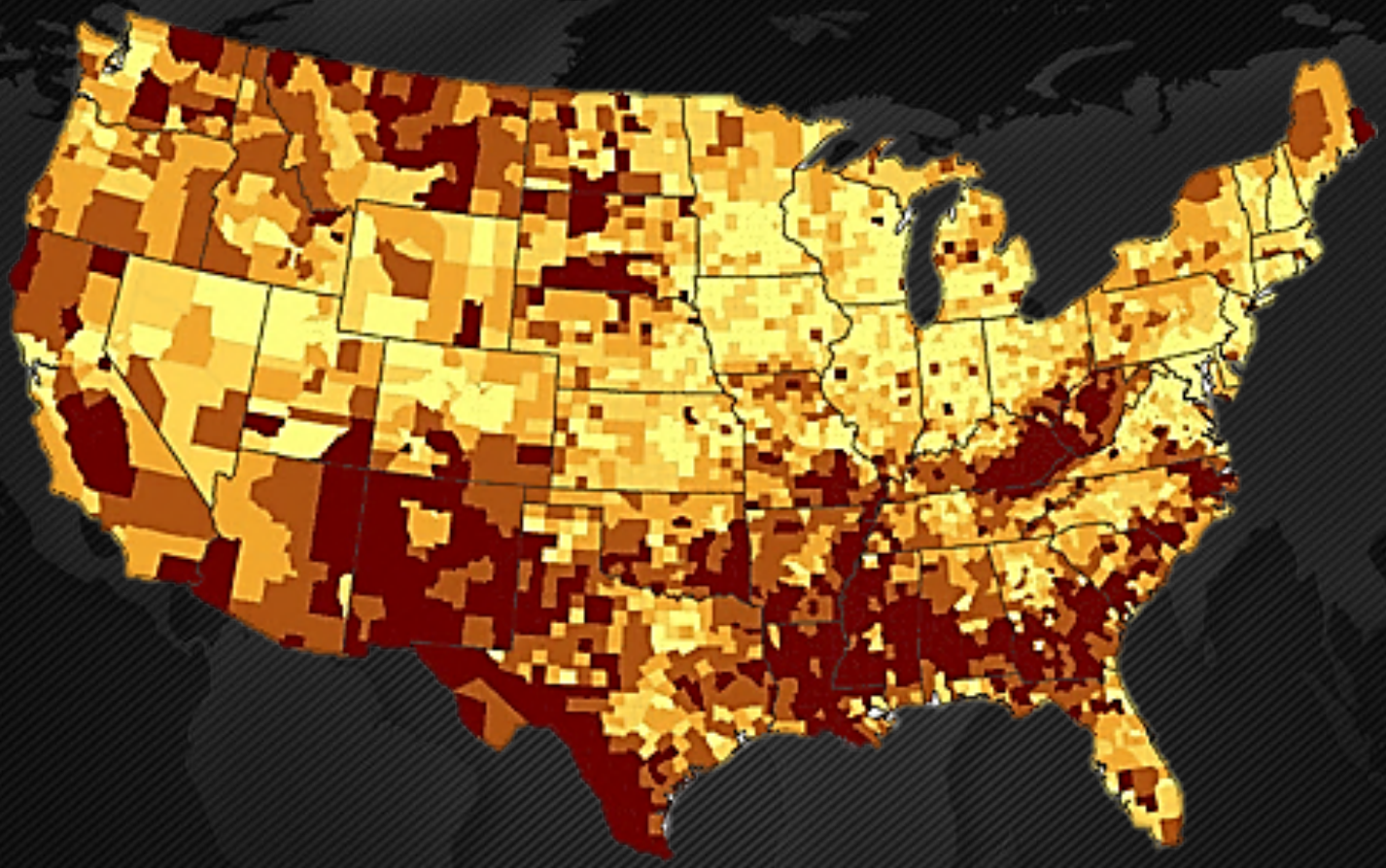
COVENTRY TRANSPORT MUSEUM
"A Time zone is a region on Earth that has a uniform standard time for legal, commercial, and social purposes."
TIME ZONE CLOCK
FRANÇOISE SCHEIN

What is the international date line?

"The International Date Line is an imaginary line on the surface of the Earth, that runs from the north to the south pole and demarcates one calendar day from the next."


A traveler crossing the International Date Line eastbound subtracts one day, or 24 hours, so that the calendar date to the west of the line is repeated.
worldatlas
10° N
EQUATOR
0°
10° S
30° S
Kiribati
Tokelau
Samoa
American Samoa
Fiji
Tahiti
Tonga
New Zealand
Pacific Ocean
160°E
180°
160°W
140°W
WESTERN HEMISPHERE

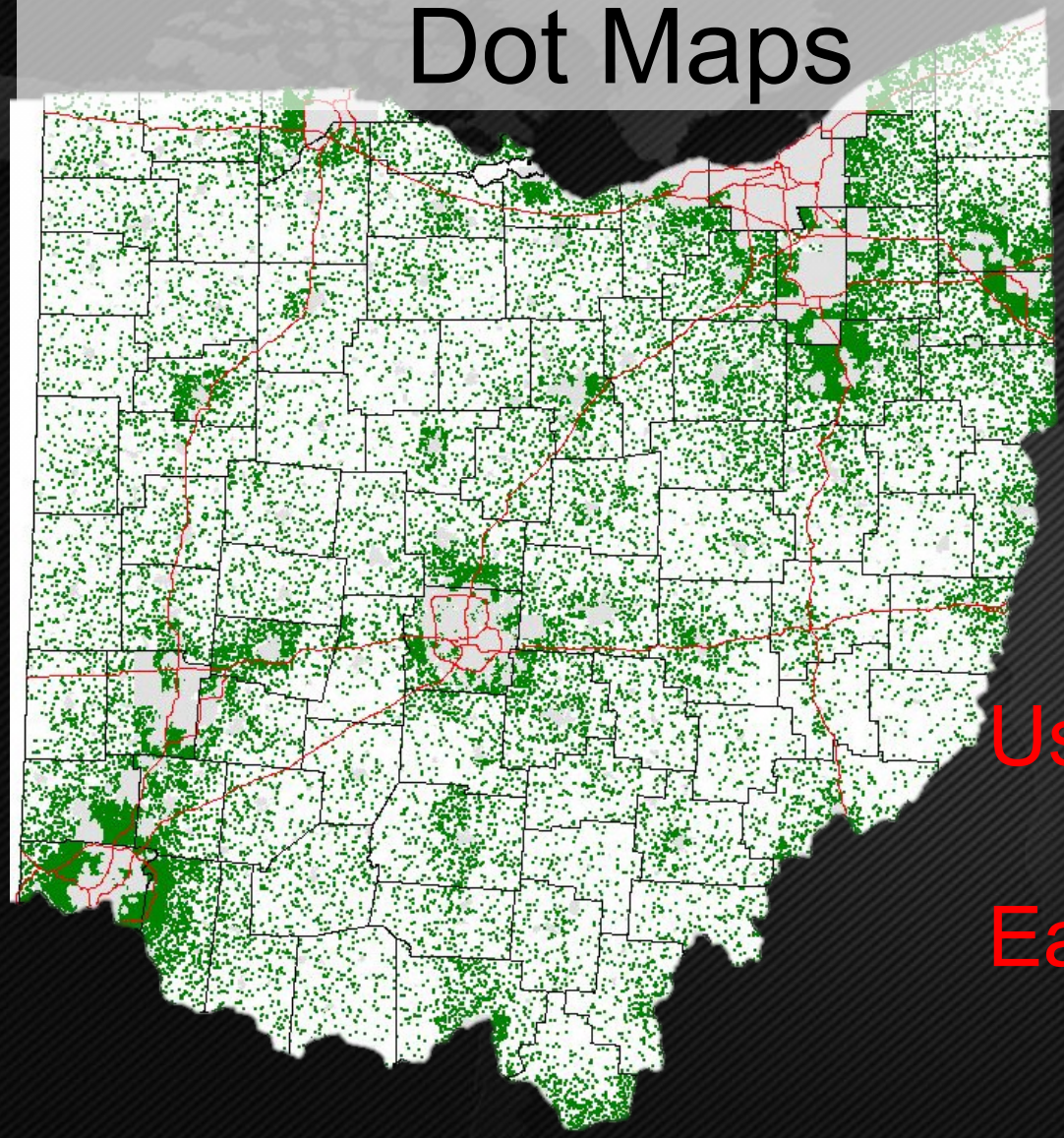

"A thematic map is a type of map or chart especially designed to show a particular theme connected with a specific geographic area."



Choropleth Maps

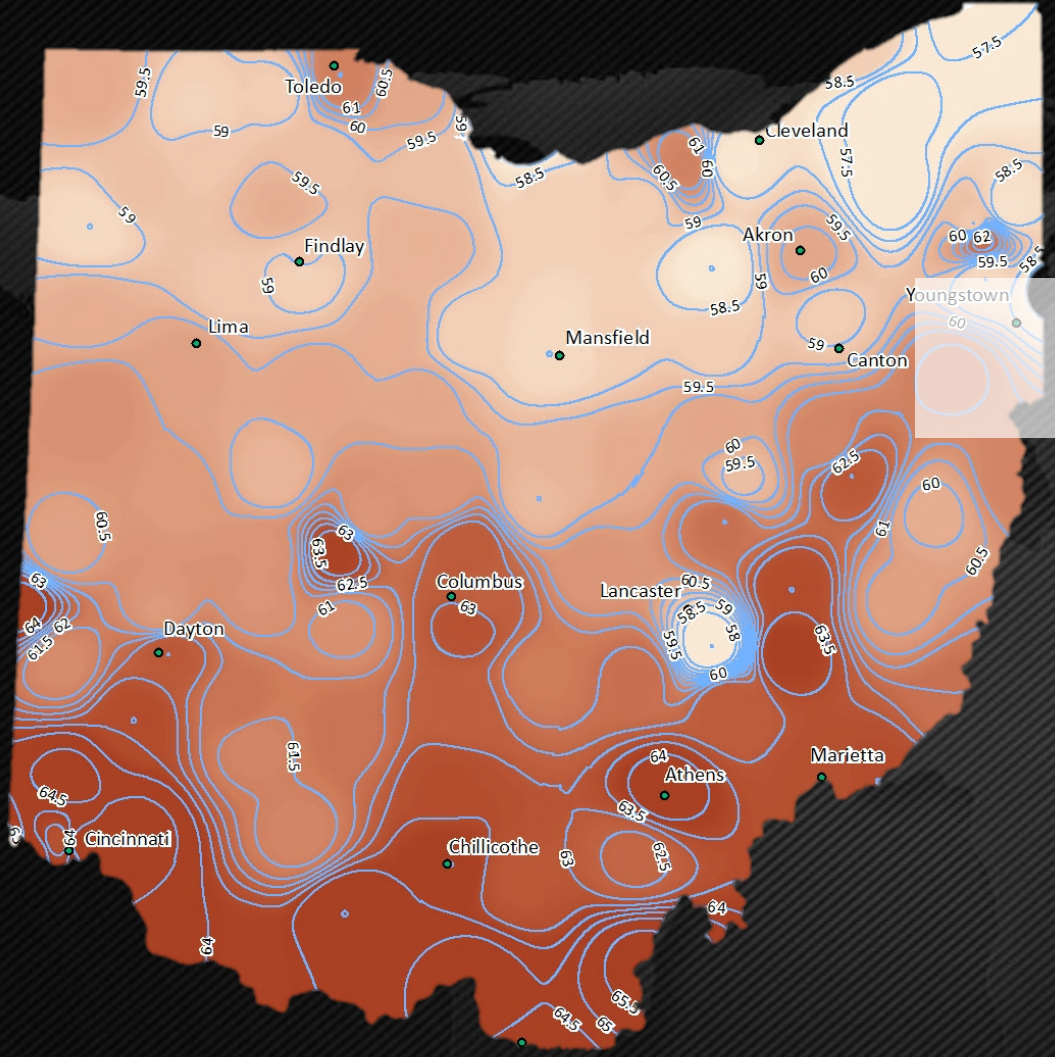
Uses differences in shading, coloring, or the placing of symbols.

Dot Maps



Uses dots in a specific area.

Each dot is a specific quantity.



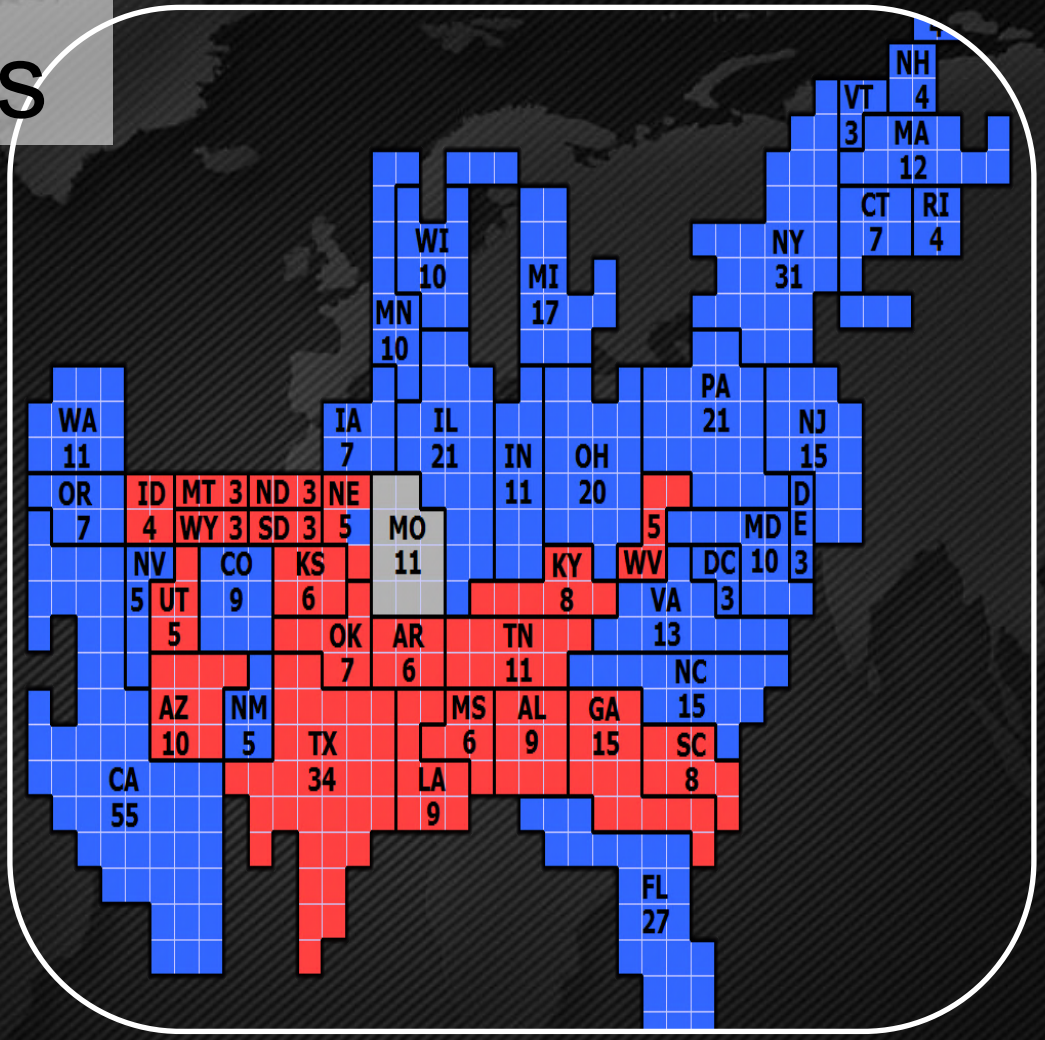
Isoline Maps

Uses continuous lines joining points of the same value

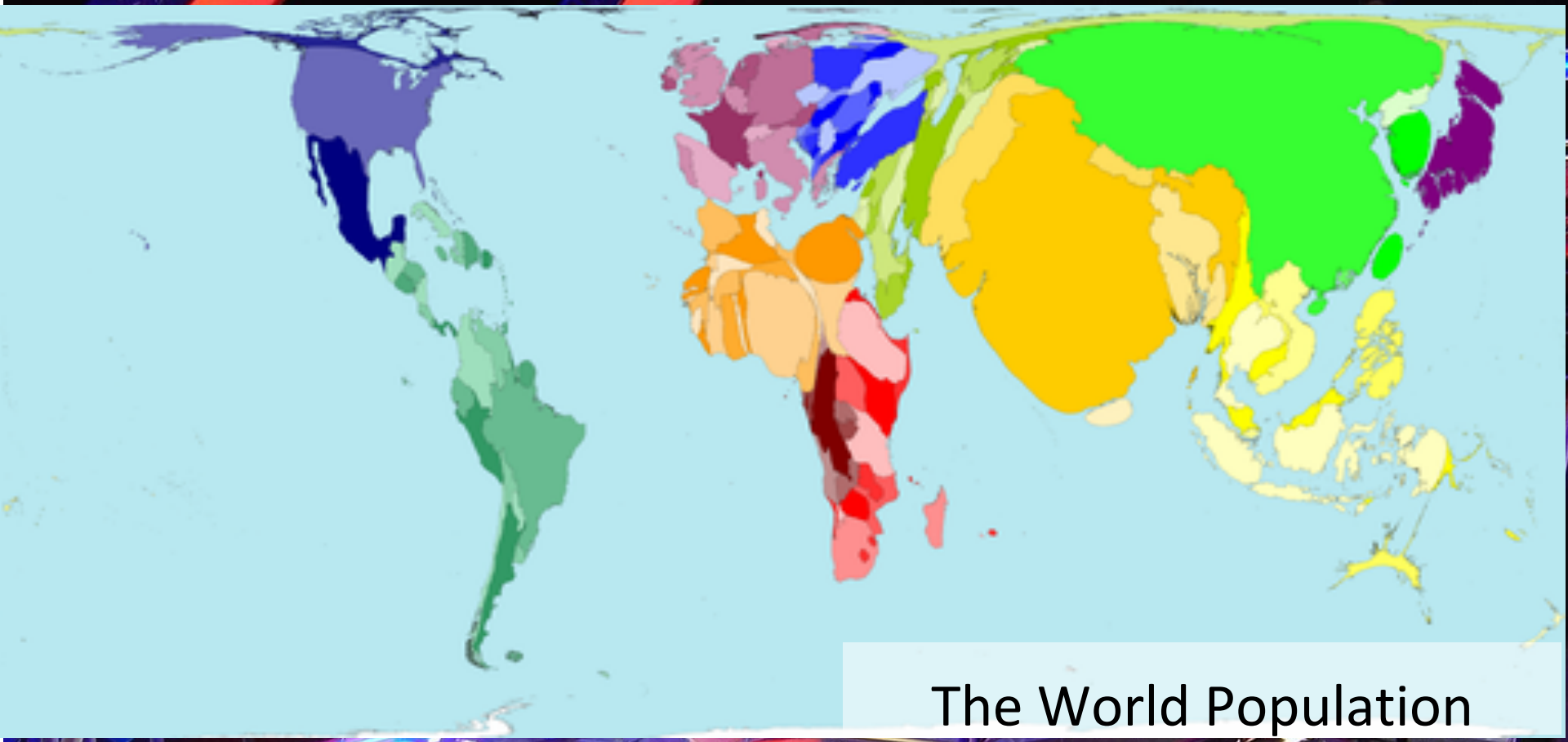
Mental Maps

Shows an person's internal perception of space.

Cartograms

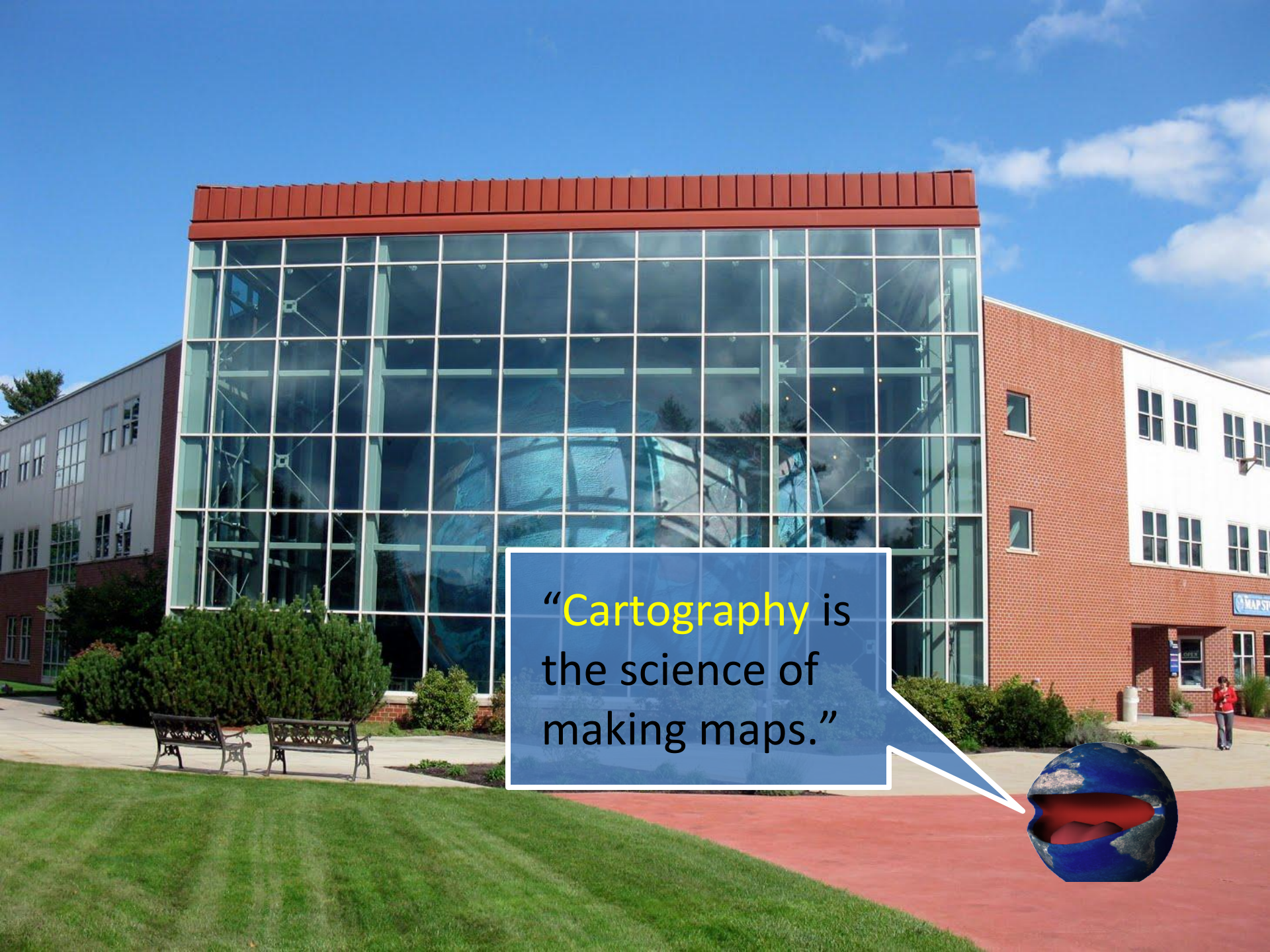


Expands or shrinks the area of locations to demonstrate different types of data

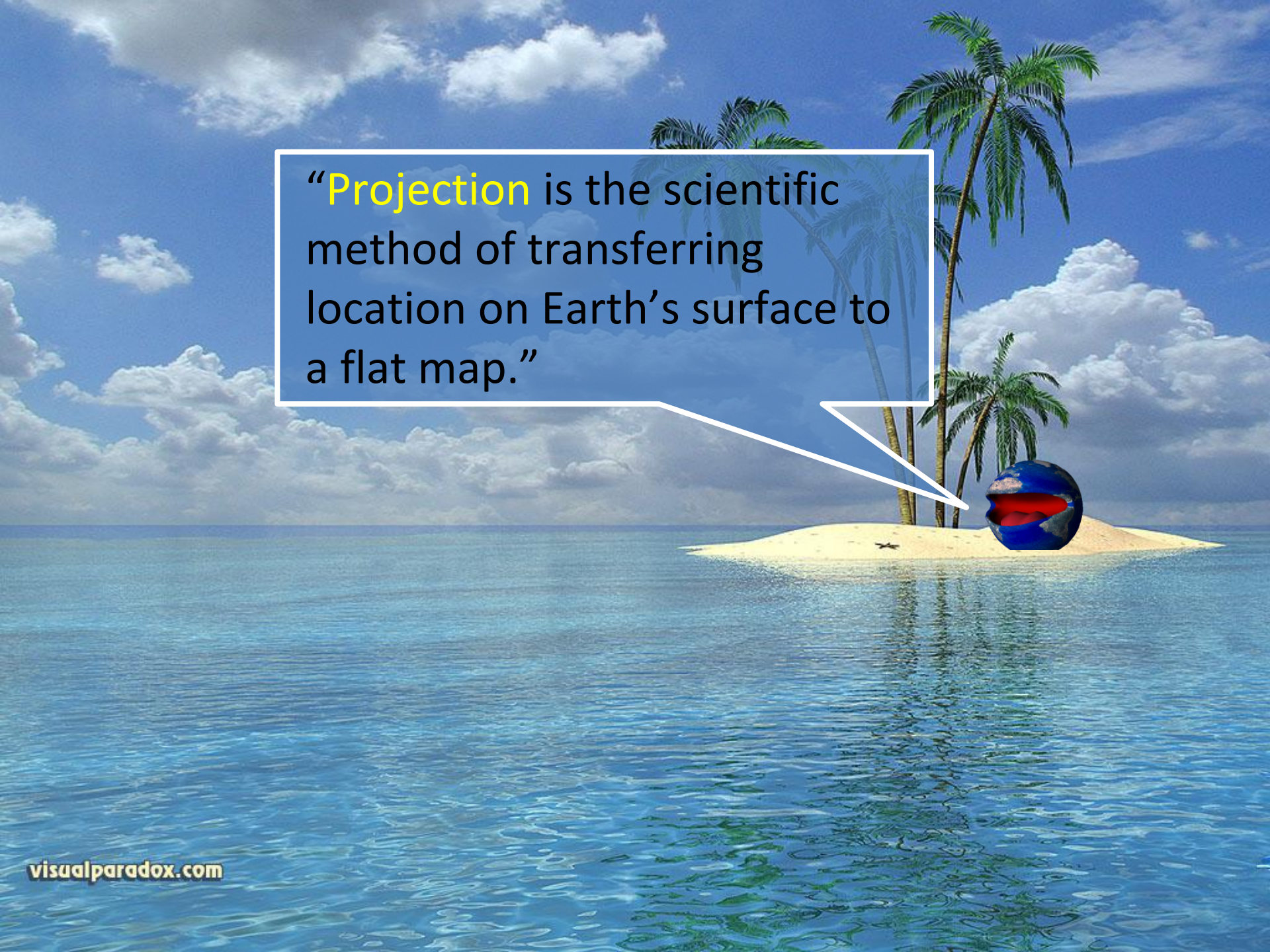


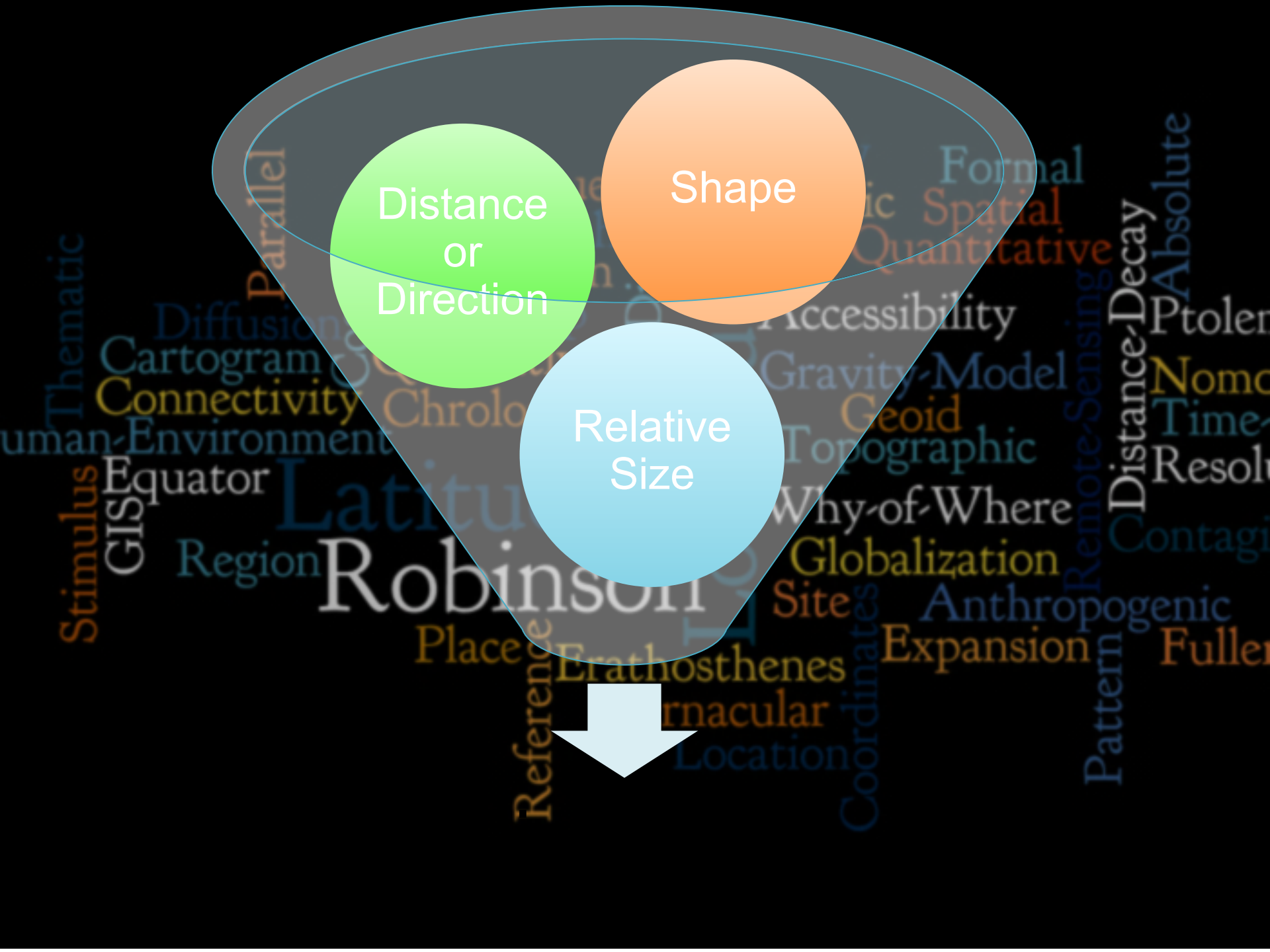
The World Population

What does this map show you about the world's population?

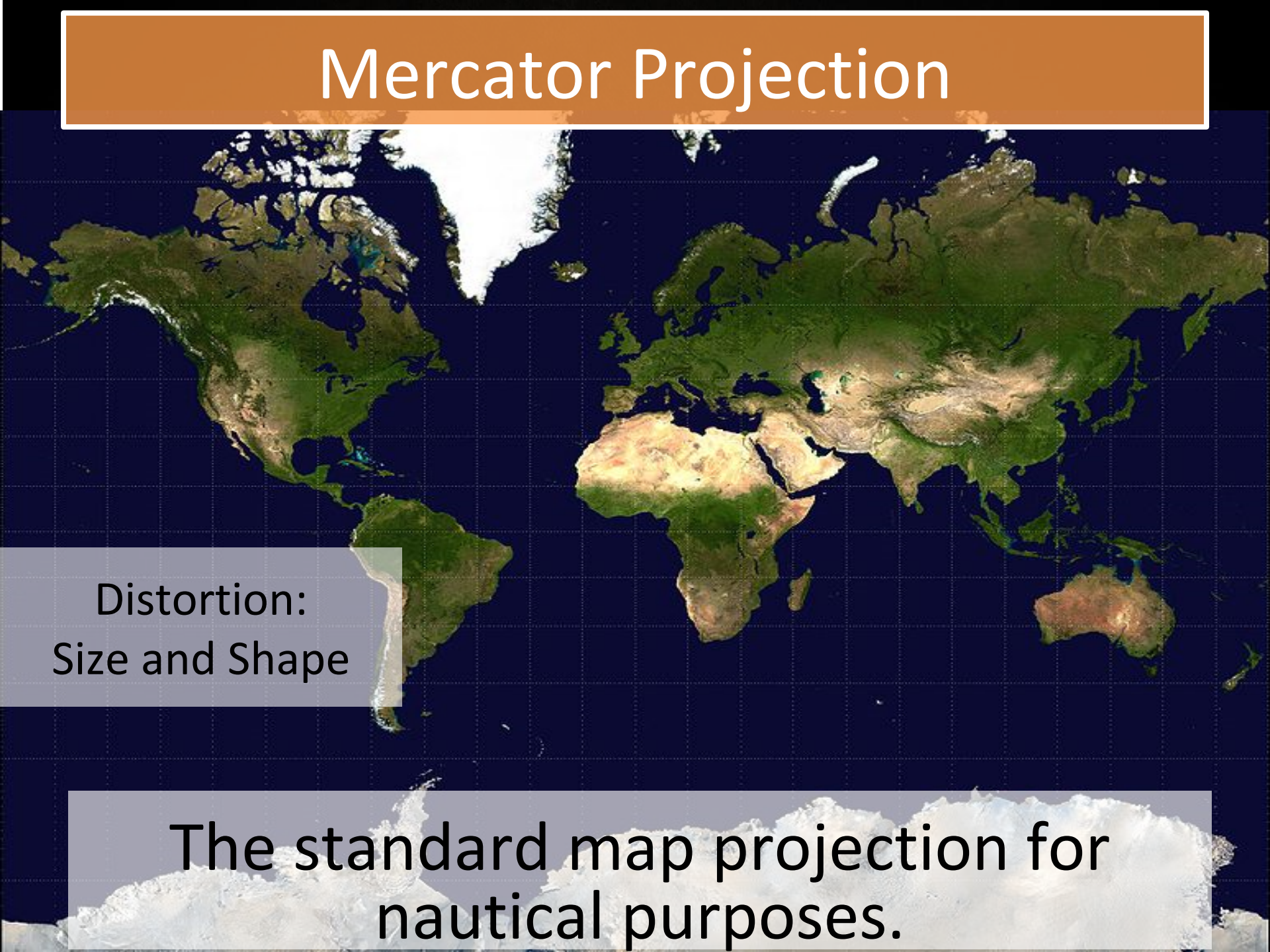

"Cartography is the science of making maps."

What problems may occur when making a flat map out of this obloid spheroid?


"Projection is the scientific method of transferring location on Earth's surface to a flat map."
visualparadox.com


Distance or Direction
Shape
Relative Size
Robinson
Latitude
Equator
Region
Place
Reference
Location
Erathosthenes
Globalization
Why-of-Where
Accessibility
Gravity-Model
Topographic
Geoid
Site
Expansion
Anthropogenic
Connectivity
Cartogram
Diffusion
Parallel
Thematic
Stimulus
GIS
Human-Environment
Formal
Spatial
Quantitative
Distance-Decay
Absolute
Pattern
Remote-Sensing
Coordinates
Vernacular

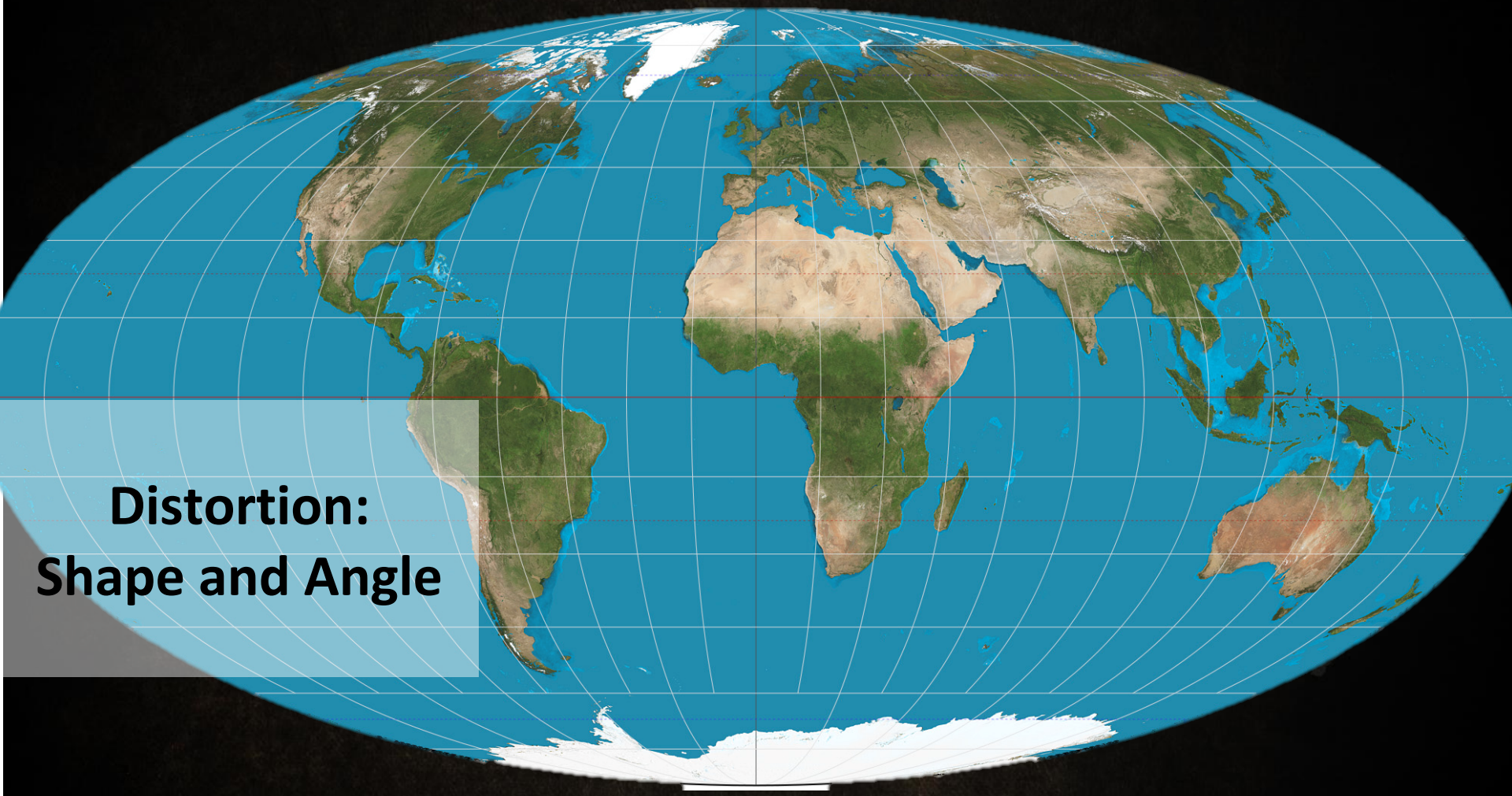
Mercator Projection



Distortion:
Size and Shape

The standard map projection for nautical purposes.

Mollweide Projection

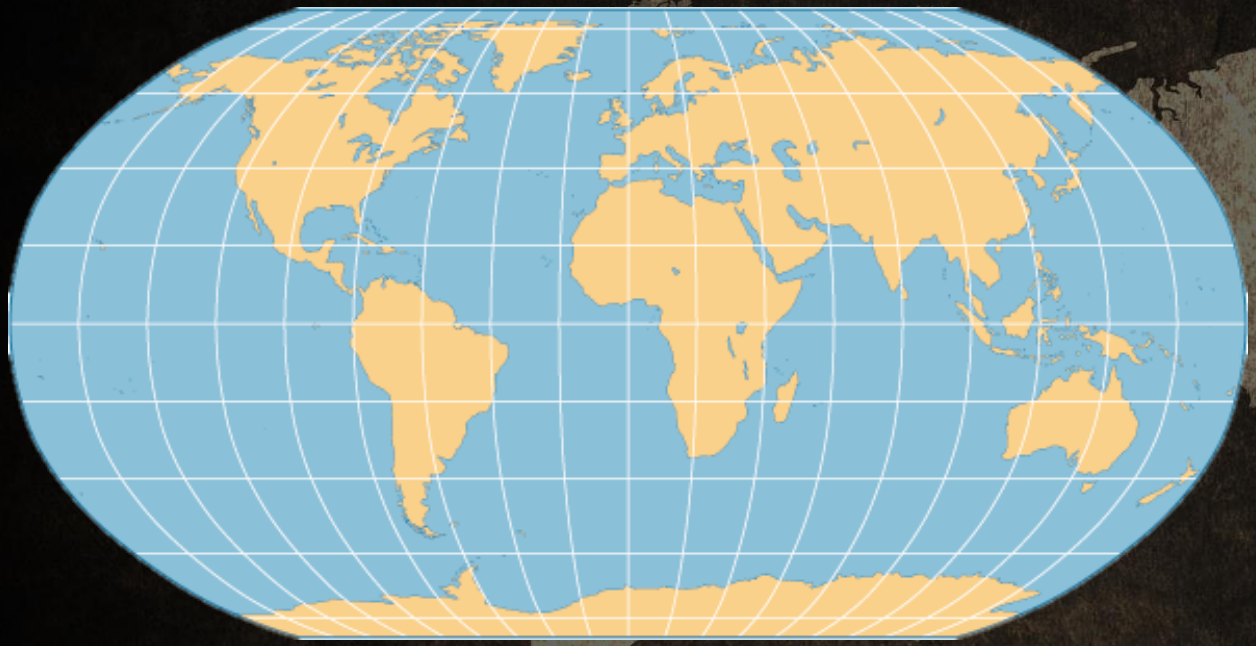


Distortion:
Shape and Angle

Primarily used where accurate representation of area takes precedence over shape

Twilease.deviantart.com

Robinson Projection



Distortion: Everything in small amounts

Primarily used to create visually appealing maps of the entire world

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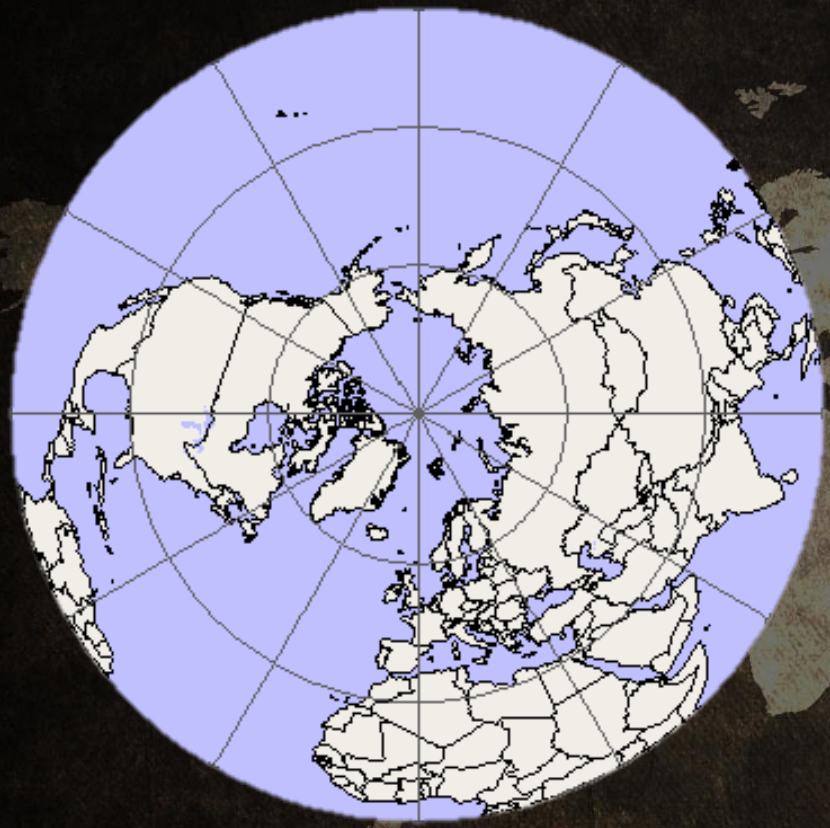
Azimuthal Equidistant Projection



Distortion:
Shape and distance as one gets farther from the center.

Used when drawing Polar maps.

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Fuller Projection

Distortion: Maintains the accurate shape and size but rearranges direction

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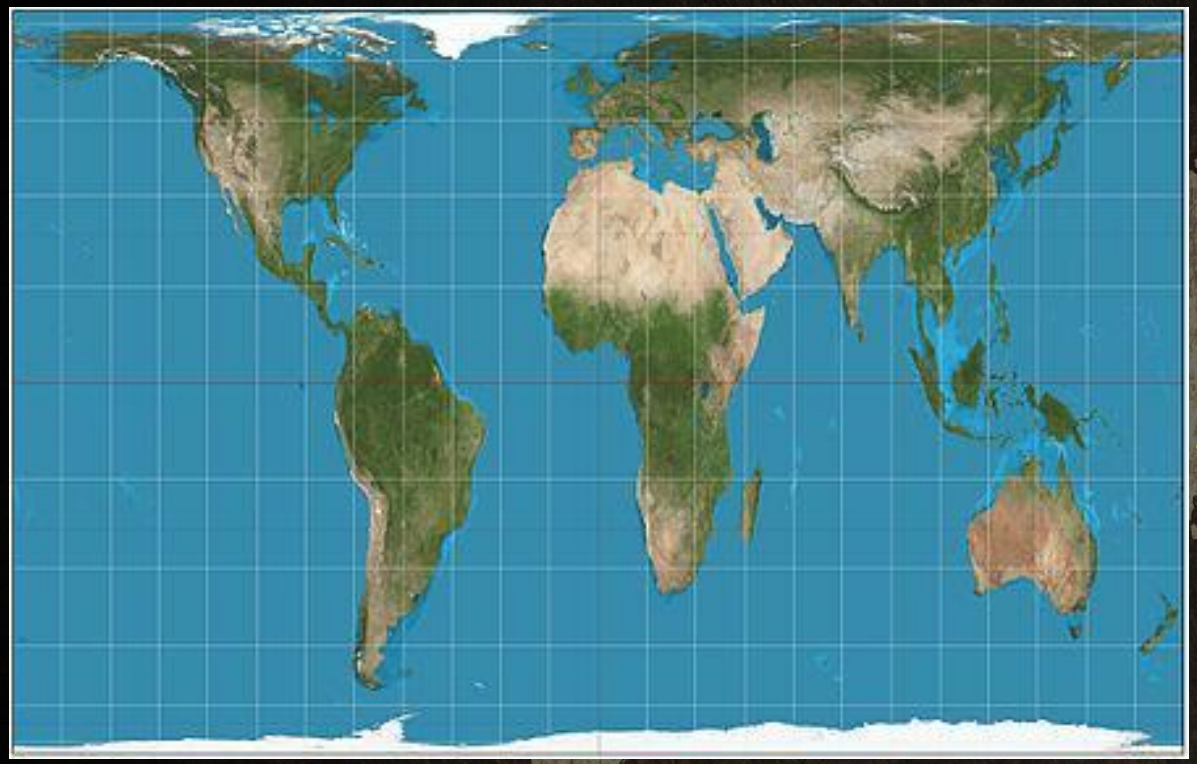
Peters Projection

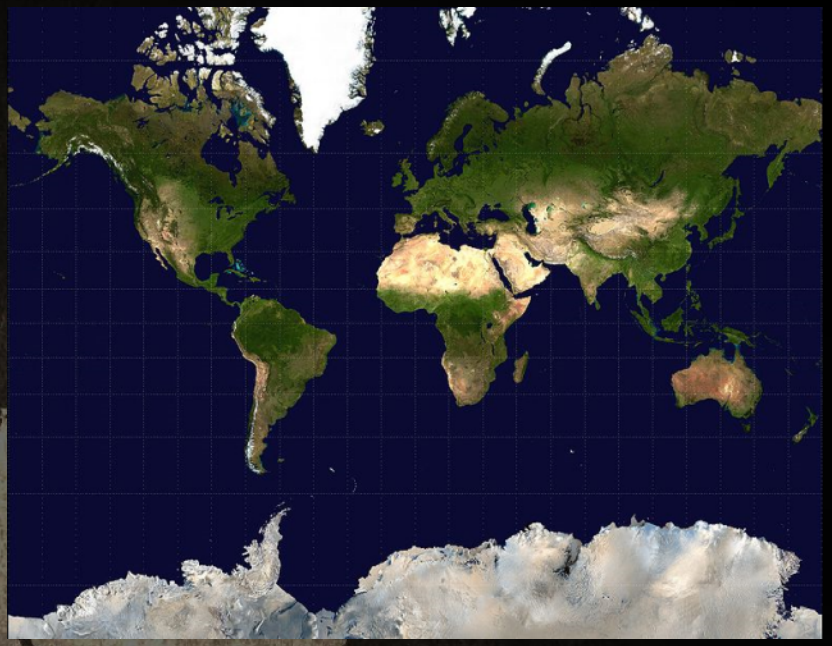


Distortion:
Retains the accurate size of landmasses but sacrifices shape.

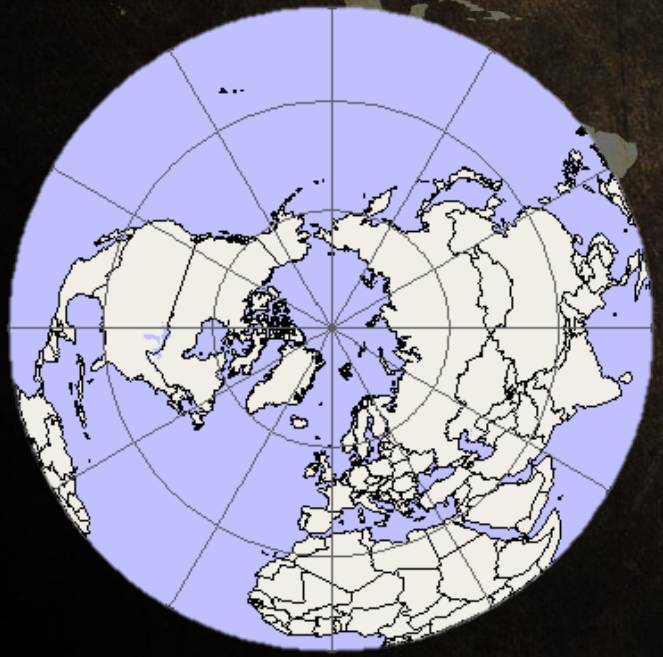
Often seen as a politically driven map.

A)

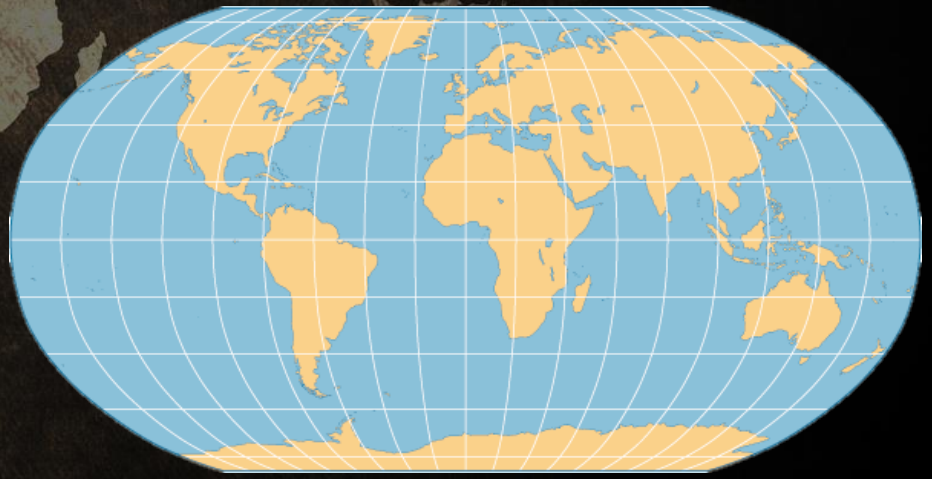
B)



C)



D)



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