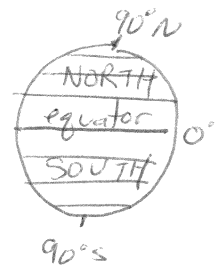


Aim: How do you find your location on Earth?

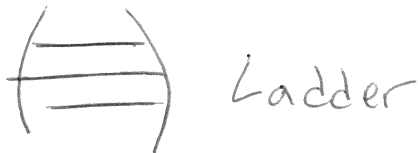
Using latitude + longitude coordinates.

- Latitude - Imaginary Lines that divide the Northern + Southern hemispheres.

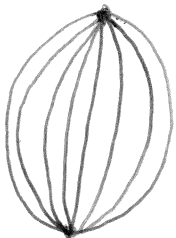
They range from 0° equator
to $90^\circ N$ - North Pole
or $90^\circ S$ - South Pole



These lines measure North or South of the equator but are drawn east — to west (flattitude)



- Longitude - Imaginary lines that divide the Western + Eastern hemispheres.



They range from 0° Prime Meridian
to 180° - International date line

These lines measure West or East of the Prime Meridian but are drawn North to South meeting at the poles.

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Longitude (cont'd)

Prime Meridian - line that separates the East + West hemispheres.

0° longitude runs through Greenwich, England.

$180^\circ\text{W} - 0^\circ - 180^\circ\text{E}$ why 180° ?

$$\text{Earth Rotates } 360^\circ / \text{day} = \frac{360^\circ}{24 \text{ hrs}} = 15^\circ / \text{hour}$$

Each line of longitude is separated by 15° or 1 hour time zone.