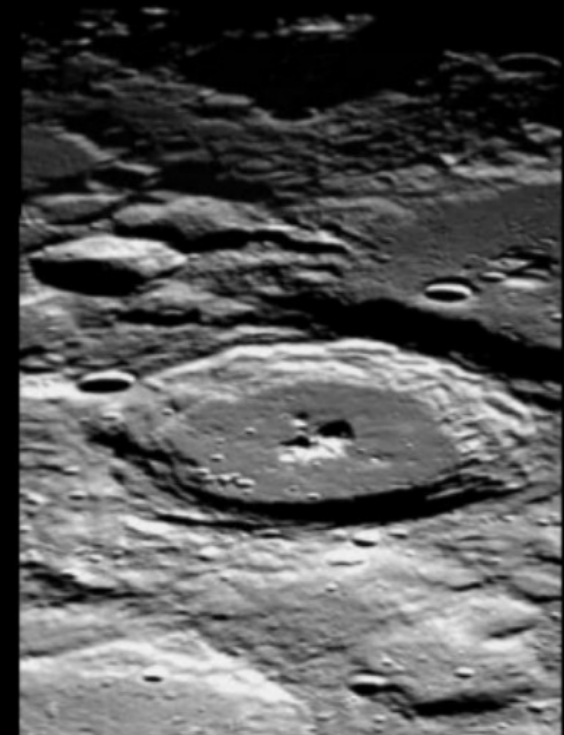




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# What is the Moon?

- A natural satellite
- One of more than 96 moons in our Solar System
- The only moon of the planet Earth



# Moon's Location from Earth



- About 384,000 km (240,000 miles) from Earth
- 3,468 km (2,155 miles) in diameter (about  $\frac{1}{4}$  the size of Earth)

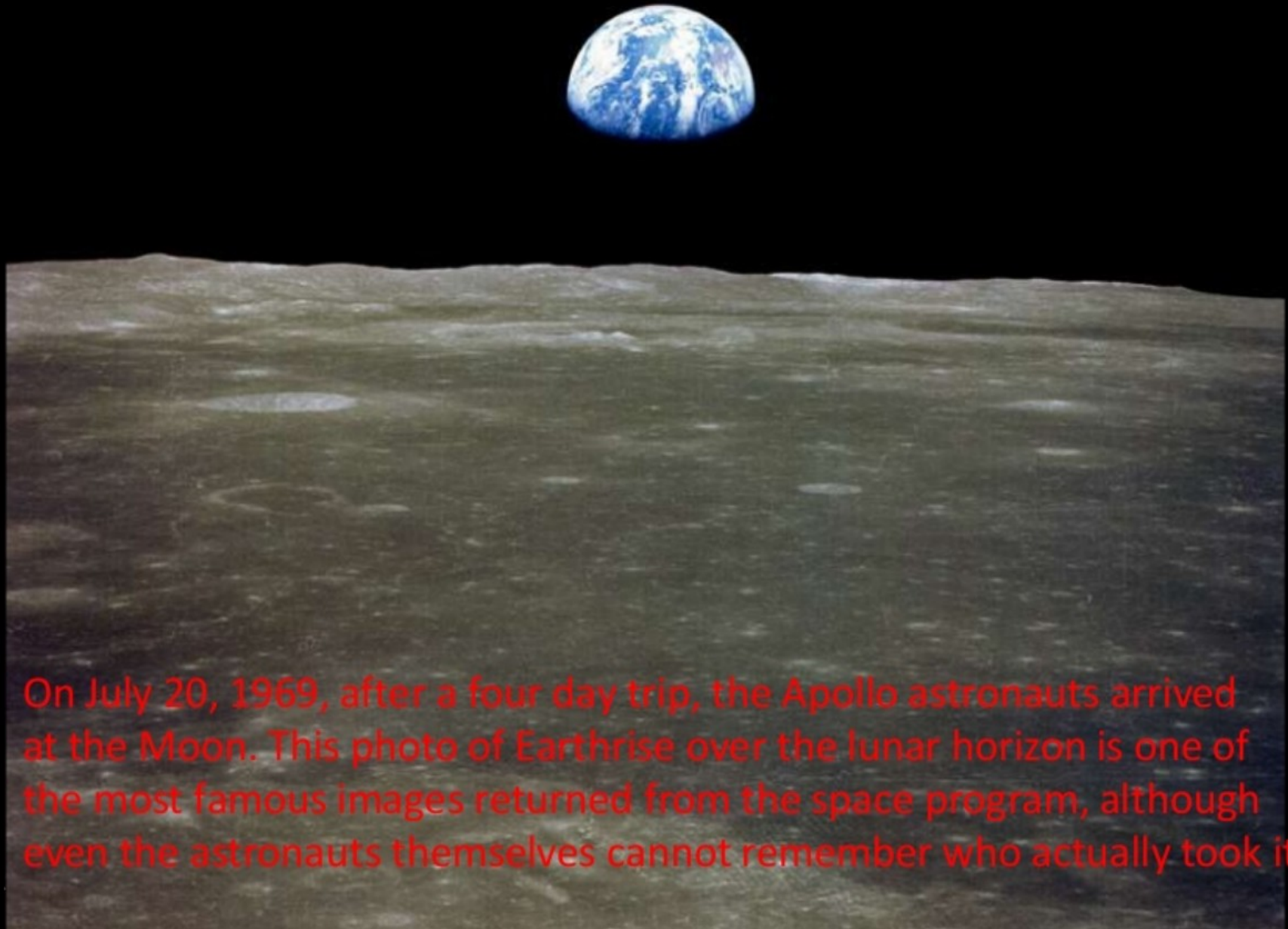
# Highlights from Apollo 11 mission

launch: July 16<sup>th</sup> 1969

arrival at Moon: July 20<sup>th</sup> 1969

first humans to land on the Moon

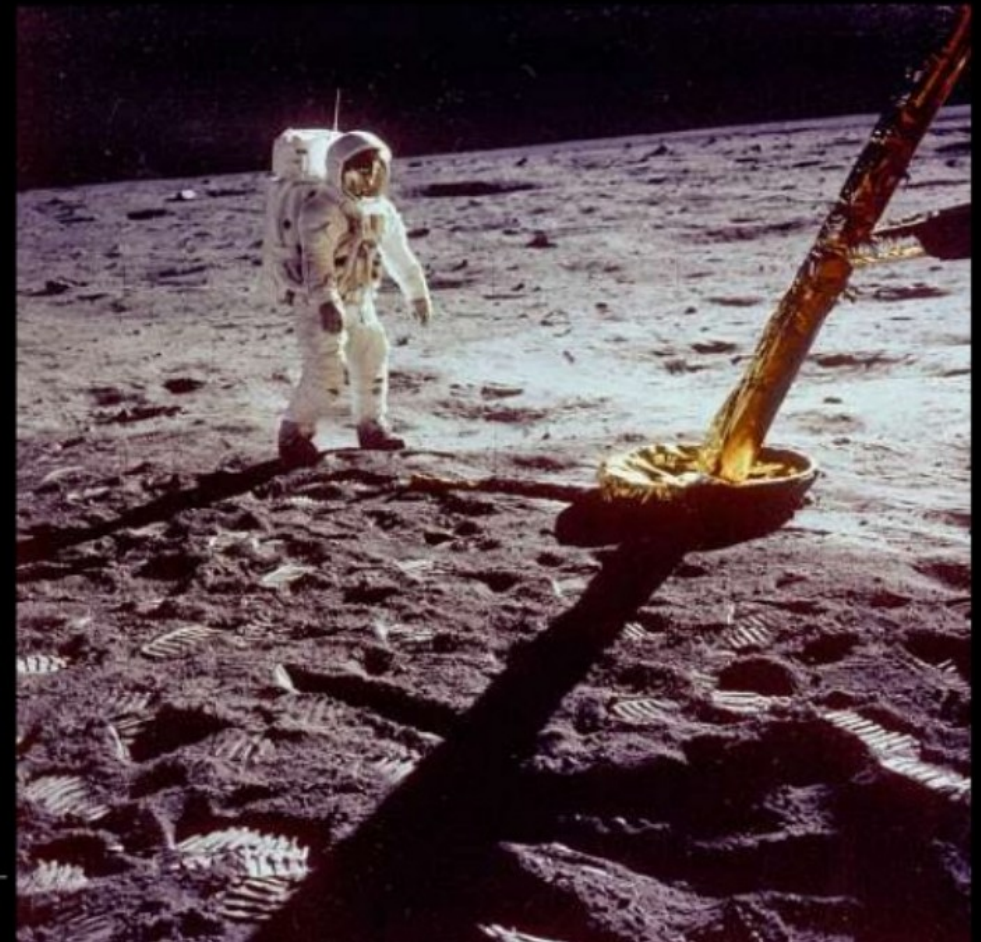




On July 20, 1969, after a four day trip, the Apollo astronauts arrived at the Moon. This photo of Earthrise over the lunar horizon is one of the most famous images returned from the space program, although even the astronauts themselves cannot remember who actually took it.

# First steps on the Moon

- July 20<sup>th</sup> 1969
- Neil Armstrong
- “Buzz” Aldrin



## Earth



- Active wind/water erosion
- Impacts
- Active volcanoes
- Earthquakes
- Active magnetic field
- Few craters

**Geologically Active!**

## Moon



- NO Active wind/water erosion
- Impacts
- NO active volcanoes
- Small moonquakes
- NO active magnetic field
- Buckets of craters

**Geologically Inactive!**

# The Moon's Surface



- No atmosphere
- No liquid water
- Extreme temperatures
  - Daytime = **130°C**
  - Nighttime = **-190°C**
- 1/6 Earth's gravity



# Movements of the Moon



- **Revolution** – Moon orbits the Earth every  **$27 \frac{1}{3}$  days**
- **Rotation** – Moon turns on its axis every **27 days**

# Movements of the Moon

- The moon rises in the **east** and sets in the **west**
- The moon rises and sets **50 minutes later** each day
- **Same side** of Moon always faces Earth



# Copyright

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