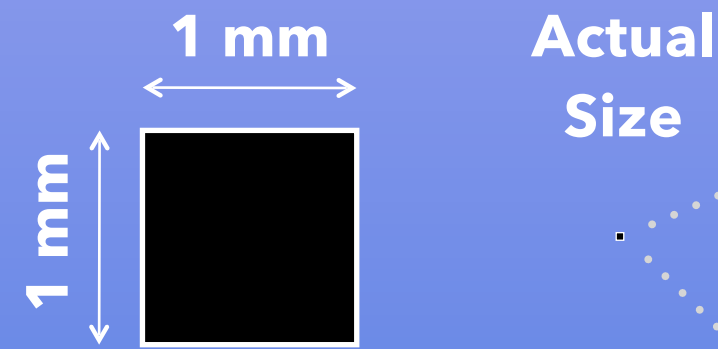


SPACE: It's Big, *Really* Big!

1. Take an empty looking $\sim 1 \text{ mm}^2$ portion of the night sky.



What at first looks like nothing...

2. Point the Hubble Telescope at it on a very long exposure.

...is actually bursting with activity!



Hubb le ULtra Deep Field | NASA (2003-2004)

The region of space imaged is in the Fornax constellation. Each side is about 2.4 arc minutes. About $1/26,000,000$ of the sky. Less than 1 mm^2 held 1 metre away.

Each spot of light is a galaxy of approximately 100 billion stars!