

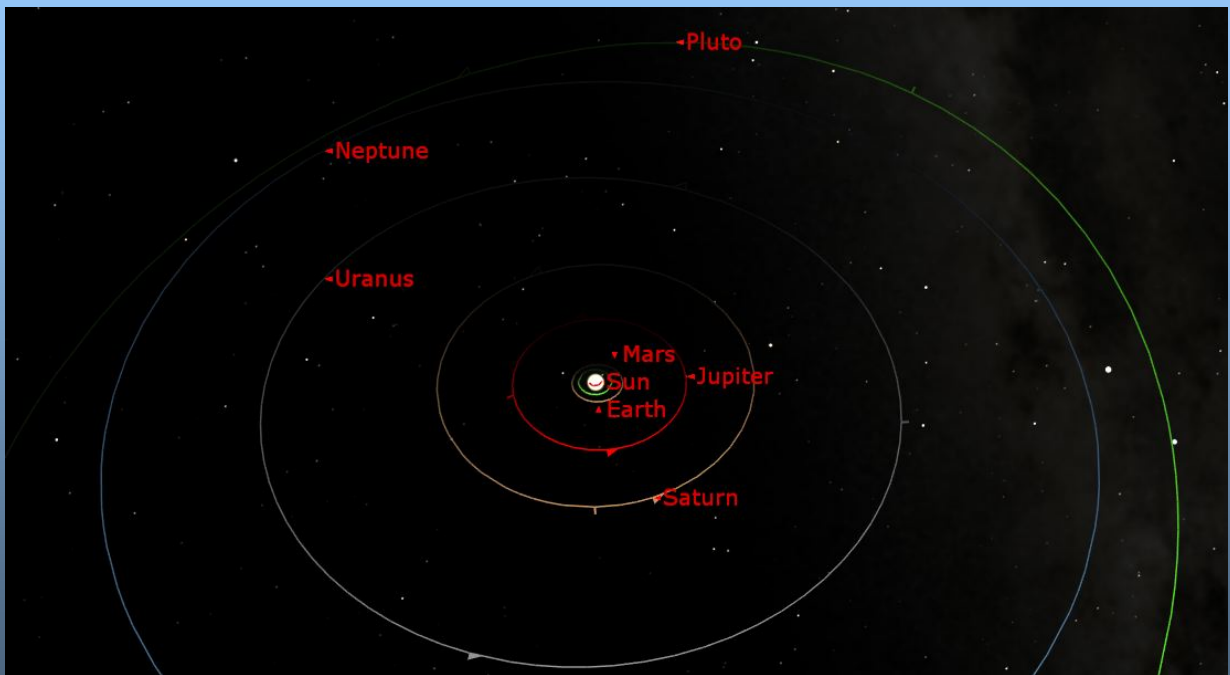


Our Place in Our Galaxy

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Solar System



MILKY WAY



What's the Difference?

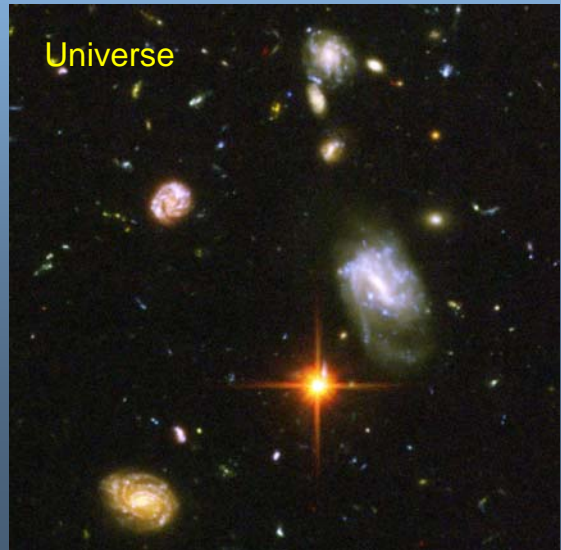
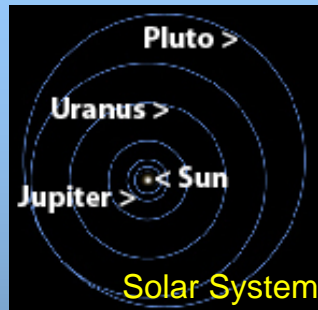
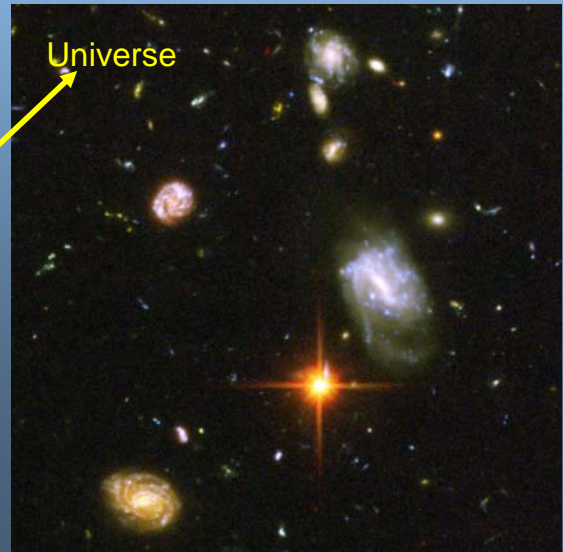
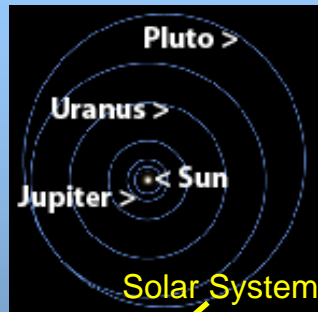


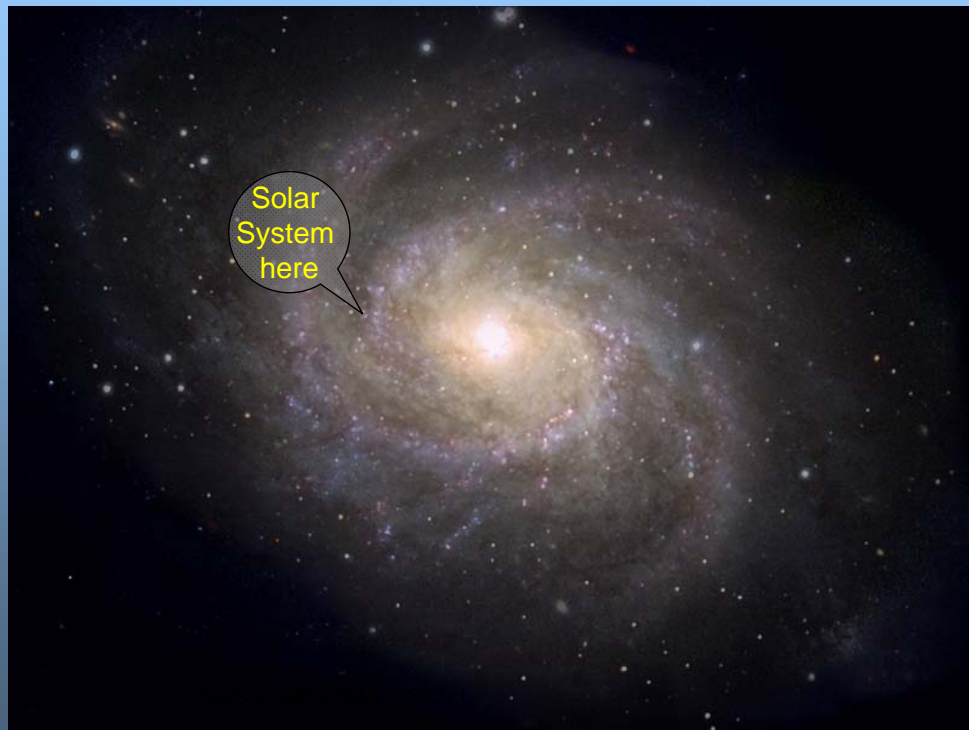
Image credits: NASA, STScI

What's the Difference?



Where is our Solar System?

Visible
stars, gas,
dust in the
Milky Way
Galaxy



How big is the Milky Way Galaxy?

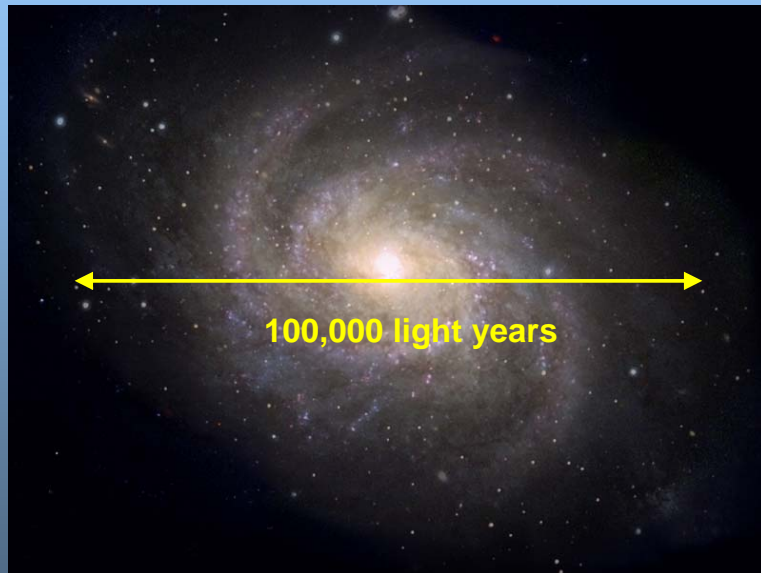


Image credits: NASA, STScI

How far is 100,000 light years?

Consider this scale:

1 inch represents 5.5 light hours (Sun to Pluto)

1 mile represents 40 light years

2,500 miles

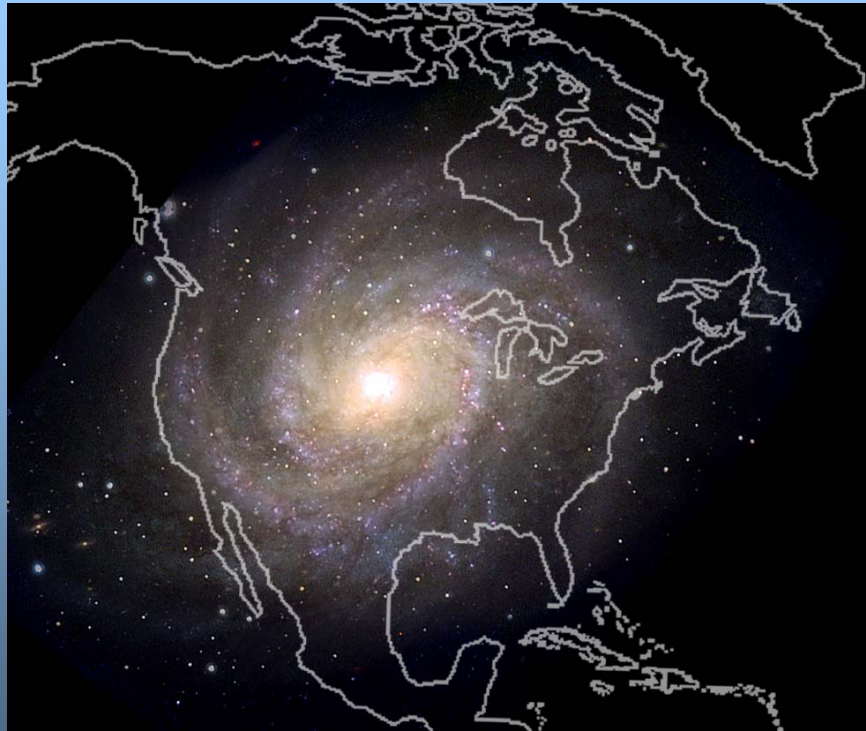
represents

100,000 light years



Continent of
North America!





And how thick is our Galaxy?



How thick is 1,000 light years?

If 2,500 miles represents 100,000 light years
25 miles represents 1,000 light years



How many stars in Milky Way?

200 BILLION Stars!!!



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Fill with bird seed
4 feet deep on a football field

200 BILLION Stars!!!



Spread them over the continent
25 miles deep!

