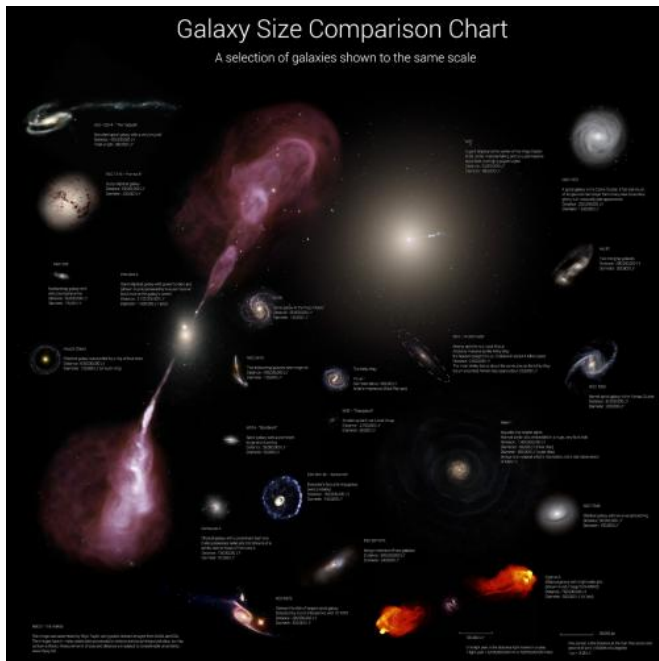


How big are galaxies?

3 April 2013, by Jason Major



Galaxy size comparison chart by astrophysicist Rhys Taylor.

I'm going to refrain from the initial response that comes to mind... actually, no I won't—they're really, really, really big!!!!

Ok, now that that's out of the way check out this graphic by Arecibo [astrophysicist](#) Rhys Taylor, which neatly illustrates the relative sizes of 25 selected [galaxies](#) using images made from NASA and ESA observation missions... including a rendering of our own surprisingly mundane [Milky Way](#) at the center for comparison.

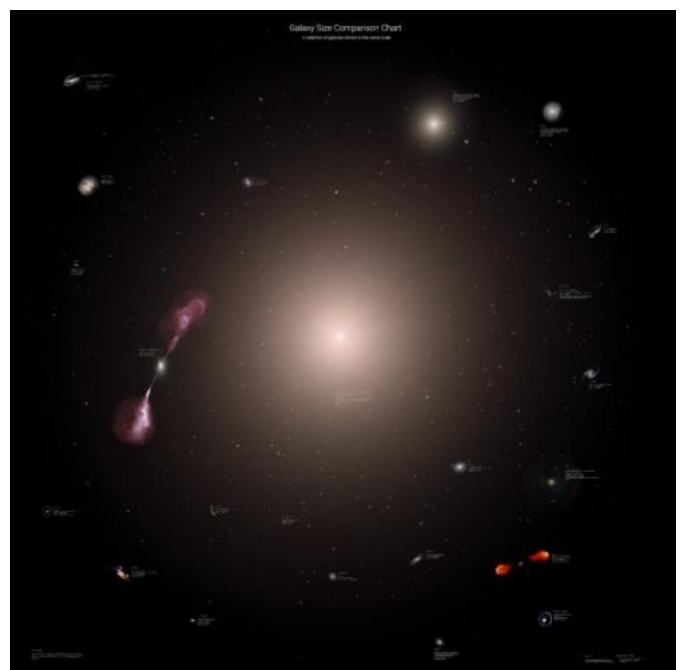
According to Taylor on his personal blog, Physicists of the Caribbean (because he works at the [Arecibo Observatory](#) in Puerto Rico) "Type in '[asteroid](#) sizes' into Google and you'll quickly find a bunch of images comparing various asteroids, putting them all next to each at the same scale. The same goes for planets and stars. Yet the results for galaxies are useless. Not only do you

not get any size comparisons, but scroll down even just a page and you get images of smartphones, for crying out loud."

So to remedy that marked dearth of galactic comparisons, Taylor made his own. Which, if you share my personal aesthetics, you'll agree is quite nicely done.

"I tried to get a nice selection of well-known, interesting objects," Taylor explains. "I was also a little limited in that I needed high-resolution images which completely mapped the full extent of each object... still, I think the final selection has a decent mix, and I reckon it was a productive use of a Saturday."

And even with the dramatic comparisons above, Taylor wasn't able to accurately portray to scale one of the biggest—if not the biggest—galaxies in the [observable universe](#): IC 1101. For an idea of how we measure up to that behemoth, he made this graphic:



Galaxy sizes including IC 1101, the largest-known

galaxy. Click for a zoomable version. Credit: Rhys Taylor

That big bright blur in the center? That's IC 1101, the largest known galaxy—in this instance created by scaling up an image of M87, another supersized [elliptical galaxy](#) that just happens to be considerably closer to our own (and thus has had clearer images taken of it.) But the size is right—IC 1101 gargantuan. At an estimated 5.5 million light-years wide, over 50 Milky Ways could fit across it!

And considering it takes our Solar System about 225 million years to complete a single revolution around the Milky Way... well... yeah. Galaxies are big. Really, really, really, really big!

Now if you'll pardon me, I need to go stop my head from spinning...

Read this and more on [Rhys Taylor's blog here](#), and add Rhys to your awesome astronomy [Google + circles here](#). And you can find out more about IC 1101 in the video below from Tony Darnell, aka DeepAstronomy:

Source: [Universe Today](#)

APA citation: How big are galaxies? (2013, April 3) retrieved 15 June 2021 from <https://phys.org/news/2013-04-big-galaxies.html>

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