

**"It's not what happens to you in life that counts;
it's how you take it, and what you make of it."**

-- Denis Waitley

Notice ARP274 Galaxy which is 200mm Light years across and pictured "small" in the bottom left... Don't forget to click and see it full screen!



Clicking on the picture will download the highest resolution version available.

The Colliding Spiral Galaxies of Arp 274

Credit: [NASA](#), [ESA](#), M. [Livio \(STScI\)](#) and the Hubble Heritage Team ([STScI /AURA](#))

Explanation: Two galaxies are squaring off in Virgo and here are the latest pictures. When two galaxies collide, the stars that compose them usually do not. This is because galaxies are mostly empty space and, however bright, stars only take up only a small fraction of that space.

But during the collision, one galaxy can rip the other apart gravitationally, and dust and gas common to both galaxies does collide. If the two galaxies merge, black holes that likely resided in each galaxy center may eventually merge. Because the distances are so large, the whole thing takes place in slow motion -- over hundreds of millions of years. Besides the two large spiral galaxies, a smaller third galaxy is visible on the far left of the above image of Arp 274, also known as NGC 5679. Arp 274 spans about 200,000 light years across and lies about 400 million light years away toward the constellation of Virgo.

hachure

\ha-SHUR\ 
Verb [Play Podcast](#)

Meaning

: to shade with or show by short lines used for shading and denoting surfaces in relief (as in map drawing) and drawn in the direction of slope

Example Sentence

"In the early years of the survey, hachuring was used to indicate the steepness of slopes on maps, whereas in later years, the more abbreviated and legible contour line was employed." (Robin E. Kelsey, The Art Bulletin, December 1, 2003)

Did you know?

As our example sentence indicates, hachuring is an old map drawing technique that was largely replaced in later years by the use of contour lines, or lines that connect points of similar elevation. The word "hachure," which can also be a noun referring to one of the short lines used in hachuring, comes from the French "hacher," meaning "to chop up" or "hash." This French word is also the source of the verbs "hash," which can mean "to chop (as meat and potatoes) into small pieces," among other meanings, and "hatch," meaning "to inlay with narrow bands of distinguishable material" and "to mark (as a drawing or engraving) with fine closely spaced lines."

*Indicates the sense illustrated in the example sentence.

Best Regards,
Ron Van Alstyne

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