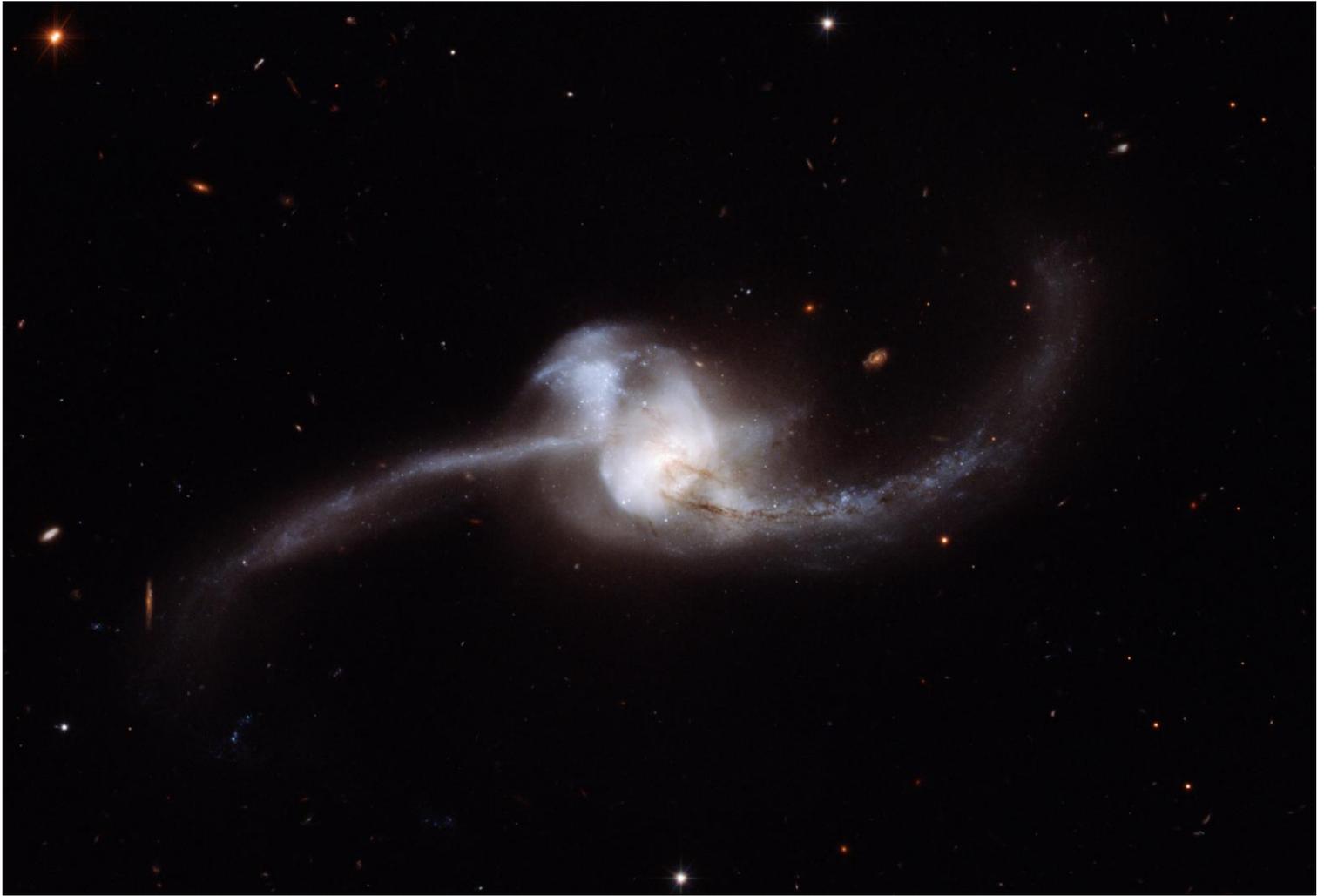


"How am I going to live today in order to create the tomorrow I'm committed to?"

— **Tony Robbins:** Self-help speaker and author



NGC 2623: Galaxy Merger from Hubble
Credit: [NASA](#), [ESA](#) and [A. Evans \(Stony Brook\) et al.](#)

Explanation: Where do stars form when galaxies collide? To help find out, astronomers imaged the nearby galaxy merger [NGC 2623](#) in high resolution with the [Hubble Space Telescope](#) in 2007. Analysis of this Hubble image and images of [NGC 2623](#) in [infrared light](#) by the [Spitzer Space Telescope](#), in [X-ray light](#) by [XMM-Newton](#), and in [ultraviolet light](#) by [GALEX](#), indicate that two originally [spiral galaxies](#) appear now to be greatly convolved and that their cores have unified into one [active galactic nucleus](#) (AGN). Star formation continues around this core near the [above image](#) center, along the stretched out [tidal tails](#) visible on either side, and perhaps surprisingly, in an off-nuclear region on the upper left where [clusters](#) of bright blue stars appear. [Galaxy collisions](#) can take hundreds of millions of years and take several gravitationally destructive passes. [NGC 2623](#), also known as Arp 243, spans about 50,000 light years and lies about 250 million light years away toward the constellation of [the Crab \(Cancer\)](#). Reconstructing the original galaxies and how [galaxy mergers](#) happen is often challenging, sometimes impossible, but generally important to understanding [how our universe evolved](#).

Word of the week!

rectify

\REK-tuh-fye\

verb

Meaning

- *1 : to set right : remedy
- 2 : to purify (as alcohol) especially by repeated or fractional distillation
- 3 : to correct by removing errors : adjust

Example Sentence

The night before the Web site was to go live, the programmers worked frantically to rectify several unresolved security problems.

Did you know?

Which of the following words does not share its ancestry with "rectify"?

- 1) direct 2) regimen 3) obstruct 4) correct 5) resurrection

Like "rectify," four of these words ultimately come from Latin "regere," which can mean "to lead straight," "to direct," or "to rule." "Correct" and "direct" come from "regere" via Latin "corrige" and "dirigere," respectively. "Resurrection" comes from Latin "resurgere," whose stem "surgere," meaning "to rise," is a combination of "sub-" and "regere." "Regimen" is from Latin "regimen" ("position of authority," "direction," "set of rules"), itself from "regere." And "rectify" is from "regere" by way of Latin "rectus" ("right"). "Obstruct" is the only one of the set above that has no relation to "rectify." It traces back to Latin "struere," meaning "to build" or "to heap up."

*Indicates the sense illustrated in the example sentence.



Best Regards,

Ron Van Alstyne

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