

Image id	Galaxy Zoo Conversation	gpt-3.5-turbo (ChatCompletion)
2953384 	User: #interesting User: almost looks like it's been split up!	<pre>[   {     "from": "human",     "value": "What does the image show?"   },   {     "from": "gpt",     "value": "The image appears to show a celestial object that has been split up."   },   {     "from": "human",     "value": "Can you describe how the object is split up?"   },   {     "from": "gpt",     "value": "Based on the image, it seems that the object is divided into multiple parts."   } ]</pre>
2953854 	User: An amazing merger could be hiding behind the core flare . . . :'[ What is that half circle-ish #arc 10:00 ? User: Stunning. #disturbed. Shell galaxy? User: Wow!	<pre>[   {     "from": "human",     "value": "What is the shape of the flare in the image?"   },   {     "from": "gpt",     "value": "The flare in the image appears to have a half-circle shape."   },   {     "from": "human",     "value": "Is there any indication of disturbance in the galaxy?"   },   {     "from": "gpt",     "value": "Yes, there is a suggestion of disturbance in the galaxy."   } ]</pre>
2954006 	User: #irregular #clumpy-and-blue User: #irregular, #bright-red-companion User: irregular blue clumps User: The bar is a clumpy arc above the plane of the disc (if it is one). The arms are also clumpy. The disc has been divided by a parallel patch which may be a dust lane but probably an artifact.	<pre>[   {     "from": "human",     "value": "What are the main features of this image?"   },   {     "from": "gpt",     "value": "The image shows irregular blue clumps, a bright red companion, and a clumpy arc above the plane of the disc."   },   {     "from": "human",     "value": "Are there any visible dust lanes in the image?"   },   {     "from": "gpt",     "value": "There is a parallel patch in the disc that may be a dust lane, but it is more likely an artifact."   } ]</pre>
2957476 	User: Artifact obscuring core vs giant purple cosmic space poodle User: A purple submarine User: Flying purple people eater scouting a spiral User: Sheb Wooley "The Purple People Eater" (Official Video) <a href="https://www.youtube.com/watch?v=5jV-E09efRE">https://www.youtube.com/watch?v=5jV-E09efRE</a> User: Well, I haven't heard that song for 65 years. Unforgettable ? User: Presumably this is a relatively close galaxy: redshift $z = 0.365$ . Also, it has been allocated a magnitude, quite a large one, by my understanding. User: Mag 22 <a href="https://www.legacysurvey.org/viewer?ra=214.8429&amp;dec=52.8820&amp;layer=hsc-dr3&amp;zoom=15">https://www.legacysurvey.org/viewer?ra=214.8429&amp;dec=52.8820&amp;layer=hsc-dr3&amp;zoom=15</a> User: Oh yes, I was going by the absolute magnitude, which has a negative value. Beg your pardon. User: Are the upper and lower color changes filter calibration anomalies? User: Probably misaligned stacking of the different coloured filter images.	<pre>[   {     "from": "human",     "value": "What is the color of the artifact obscuring the core?"   },   {     "from": "gpt",     "value": "The color of the artifact obscuring the core is purple."   },   {     "from": "human",     "value": "What is the redshift value of the galaxy?"   },   {     "from": "gpt",     "value": "The redshift value of the galaxy is 0.365."   } ]</pre>

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2957503 	User: #dust-lane #cds User: #disrupted-spiral. very luminous core	<pre>[   {     "from": "human",     "value": "What is the significance of the dust lane in the image?"   },   {     "from": "gpt",     "value": "The dust lane in the image indicates the presence of interstellar dust, which can obscure the light from stars behind it. It may also be associated with star formation."   },   {     "from": "human",     "value": "What does the disrupted spiral structure suggest?"   },   {     "from": "gpt",     "value": "The disrupted spiral structure suggests that the galaxy has undergone some kind of disturbance or interaction with another object, which has disrupted its regular spiral arms."   } ]</pre>
2957516 	User: In the process of galaxy formation? So cool User: Hmmm.... squiggley	<pre>[   {     "from": "human",     "value": "What is the overall shape of the galaxy in the image?"   },   {     "from": "gpt",     "value": "The galaxy in the image appears to have a spiral shape."   },   {     "from": "human",     "value": "Are there any visible star clusters or nebulae in the galaxy?"   },   {     "from": "gpt",     "value": "Yes, there are visible star clusters and nebulae within the galaxy."   } ]</pre>
2957734 	User: #red. #irregular User: #comet-galaxy	<pre>[   {     "from": "human",     "value": "What colors are present in the image?"   },   {     "from": "gpt",     "value": "The image contains red and irregular features."   },   {     "from": "human",     "value": "What is the main object in the image?"   },   {     "from": "gpt",     "value": "The main object in the image appears to be a comet-like galaxy."   } ]</pre>
2959552 	User: #spiral, #bright-blue-object-right-of-nucleus User: Star-forming in progress or something else entirely? As Chris said, very blue object.	<pre>[   {     "from": "human",     "value": "What is the color of the object to the right of the nucleus?"   },   {     "from": "gpt",     "value": "The object to the right of the nucleus appears to be bright blue."   },   {     "from": "human",     "value": "Is the object to the right of the nucleus a spiral galaxy?"   },   {     "from": "gpt",     "value": "Based on the information provided, it is not clear if the object to the right of the nucleus is a spiral galaxy or not."   } ]</pre>
2959983 	User: The actual central object is a hazy ring, almost just looks like a giant black hole with a teeny tiny bit of gassy star-matter hardly even enough to call a snack User: Exact center. Faint large galaxy centers a ring.	<pre>[   {     "from": "human",     "value": "What is the central object in the image?"   },   {     "from": "gpt",     "value": "The central object in the image appears to be a hazy ring, resembling a giant black hole with a small amount of gassy star-matter."   },   {     "from": "human",     "value": "What is the size of the faint large galaxy centers?"   },   {     "from": "gpt",     "value": "The faint large galaxy centers in the image are faint and appear to be relatively large in size."   } ]</pre>

Image id	Galaxy Zoo Conversation	gpt-3.5-turbo (ChatCompletion)
2960030 	<p>User: I've been seemingly hitting the jackpot with the JWST images today for bright red galaxies. #bright-red_companion on the bottom on this one.</p> <p>User: #merging with adjacent #disrupted galaxy? hard not being distracted by beautiful spiral galaxies loitering around in the background</p> <p>User: Beautiful !!</p> <p>User: Almost invisible bent bar leading to twin arms with very active ends. Twin galaxies at the ends of a fully extended skipping rope. Just one more not-very-spiral two armer, probably the more important stuff unique to Webb, but not really capturable by the current classifications.</p>	<pre>[   {     "from": "human",     "value": "What color are the galaxies in the image?"   },   {     "from": "gpt",     "value": "The galaxies in the image appear to be bright red."   },   {     "from": "human",     "value": "Are there any spiral galaxies in the image?"   },   {     "from": "gpt",     "value": "Yes, there are beautiful spiral galaxies loitering around in the background of the image."   } ]</pre>
2960630 	<p>User: #bright-red</p> <p>User: #edge_on CANDELS J141920.56+525231.1 Redshift: Z = 2.235</p> <p>User: what does this sentence mean? i am new</p> <p>User: The edge-on describes the shape. CANDELS is another star survey, and the long number is a identification which includes the co-ordinates of where the object is in the sky, like latitude and longitude. The red shift is how far away it is, in this case about 11 billion light-years away, or 3/4 of the way to the edge of the Universe. Galaxy Colour and Redshift Chart which shows what galaxies look like as we look further and further away, Click to get spectrum <a href="https://www.zooniverse.org/projects/zookeeper/galaxy-zoo/talk/1268/576934">https://www.zooniverse.org/projects/zookeeper/galaxy-zoo/talk/1268/576934</a> Learn Astrophysics – redshift and spectral charts Easy. Really. <a href="https://www.zooniverse.org/projects/zookeeper/galaxy-zoo/talk/1268/582784">https://www.zooniverse.org/projects/zookeeper/galaxy-zoo/talk/1268/582784</a></p> <p>User: AFAIK redshift is just a measurement of how far the light we receive from an object is shifted to the left or right side of a base value. Distance is indirectly derived from this value using everything available on the cosmological distance ladder. Theres an important difference between measurement and inference of distance (or the statement that “ This galaxy moving away from us at high speeds which stretches the wavelengths of light.”, which is debatable, peculiar motion between two objects and expansion of spacetime in between two objects might be interchangeable in terms of redshift but not equal in reality.)</p> <p>User: thanks alot, i was always curious about how scientist know the distance of a galaxy or a star. but Z = 2.235 is too specific, how does he know that?</p> <p>User: The redshift z is determined by taking the spectral chart of the galaxy. Spectra gives exact numbers Photoz is an estimate, and is not exact. Learn Astrophysics – redshift and spectral charts Easy. Really. <a href="https://www.zooniverse.org/projects/zookeeper/galaxy-zoo/talk/1268/582784">https://www.zooniverse.org/projects/zookeeper/galaxy-zoo/talk/1268/582784</a></p>	<pre>[   {     "from": "human",     "value": "What is the color of the object in the image?"   },   {     "from": "gpt",     "value": "The object in the image appears to be bright red."   },   {     "from": "human",     "value": "Can you describe the shape of the object?"   },   {     "from": "gpt",     "value": "Based on the available information, the object in the image is described as 'edge-on', which suggests a specific orientation or alignment."   } ]</pre>
2960663 	<p>User: #smoky-trail</p> <p>User: The red ring is looking artificial. What do you think?</p> <p>User: intense #ringed emission #irregular</p> <p>User: <a href="https://worldwidetelescope.org/webclient/">https://worldwidetelescope.org/webclient/</a> JWST page 3 to 4,, CEERS NIRC</p> <p>User: Are we looking to classify the bright orange object or the wispy trail beneath it?</p> <p>User: There's probably an #interaction there so whatever you please. In theory , classify what is central , but h*ll, whatever you want if it affects the central image. There's also in the sw corner, a galaxy that look like a #jellyfish galaxy, probably a close #group #companion.</p>	<pre>[   {     "from": "human",     "value": "What is the color of the central object?"   },   {     "from": "gpt",     "value": "The central object appears to be bright orange."   },   {     "from": "human",     "value": "Can you describe the shape of the wispy trail beneath the central object?"   },   {     "from": "gpt",     "value": "The wispy trail beneath the central object appears irregular in shape."   } ]</pre>

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2961773 	User: #interacting with #clumps User: I'd say #overlap with a far more important more distant clumpy merger . User: Seems to be that the central, blue-tinted galaxy is experiencing some minor disturbance with some overlap, not with another galaxy, but perhaps remnants of the clumps to its left.	<pre>[   {     "from": "human",     "value": "What is the color of the central galaxy?"   },   {     "from": "gpt",     "value": "The central galaxy appears to have a blue tint."   },   {     "from": "human",     "value": "Are there any other galaxies in the image?"   },   {     "from": "gpt",     "value": "There is no mention of other galaxies in the image, but there are remnants of clumps to the left of the central galaxy."   } ]</pre>
2962244 	User: #disturbed User: #spiral #barred #clumps	<pre>[   {     "from": "human",     "value": "What is the overall shape of the galaxy in the image?"   },   {     "from": "gpt",     "value": "The overall shape of the galaxy in the image appears to be spiral."   },   {     "from": "human",     "value": "Are there any distinct features visible in the galaxy?"   },   {     "from": "gpt",     "value": "Yes, there are clumps visible in the galaxy."   } ]</pre>
2966691 	User: Being stretched apart by the galaxy above and below, there is the ones to its right at 3pm that could be causing interactions User: True two-armed loose spiral at maximum extension but neither arm is fully formed.	<pre>[   {     "from": "human",     "value": "What is the overall shape of the galaxy in the image?"   },   {     "from": "gpt",     "value": "The galaxy in the image appears to have a loose spiral shape."   },   {     "from": "human",     "value": "Are there any other galaxies visible in the image?"   },   {     "from": "gpt",     "value": "Yes, there are other galaxies visible in the image. One is located to the right of the main galaxy at 3 o'clock position."   } ]</pre>
2969690 	User: #Rod_edge on + #clumps or #dual_cores User: cute little #edge-on	<pre>[   {     "from": "human",     "value": "What are the main features of the image?"   },   {     "from": "gpt",     "value": "The image shows an edge-on galaxy with clumps or dual cores."   },   {     "from": "human",     "value": "Can you describe the appearance of the edge-on galaxy?"   },   {     "from": "gpt",     "value": "The edge-on galaxy in the image appears to be cute and little."   } ]</pre>

Based on Galaxy-zoo conversation and gpt-3.5\_turbo chat?

For GPT-4:

1. Don't give redshift?

For us:

1. Which information can we have ?
  1. Shape, color, feature?