



ESA/Hubble

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Space Sparks Episode 3	Visual Notes
0:00-00:10 Intro	
00:11-00:22 Each year, the NASA/ESA Hubble Space Telescope dedicates a small portion of its precious observing time to taking a special anniversary image , showcasing particularly beautiful and meaningful objects.	 <p>Each year, the NASA/ESA Hubble Space Telescope dedicates a small portion of its precious observing time to taking a special anniversary image, showcasing particularly beautiful and meaningful objects.</p>
00:23-00:34 These images continue to challenge scientists with exciting new surprises and to fascinate the public with ever more evocative observations .	 <p>These images continue to challenge scientists with exciting new surprises and to fascinate the public with ever more evocative observations.</p>
00:35-00:46 In 2021, Hubble snapped an image to commemorate the 31st anniversary of the Earth-orbiting observatory's launch into space.	 <p>In 2021, Hubble snapped an image to commemorate the 31st anniversary of the Earth-orbiting observatory's launch into space.</p>
00:47-00:57 The giant star is waging a tug-of-war between gravity and radiation to avoid self-destruction. The star, called AG Carinae , is surrounded by a nebula , which is an expanding shell of dust and gas that is shaped by the powerful wind of the star.	 <p>The giant star is waging a tug-of-war between gravity and radiation to avoid self-destruction. The star, called AG Carinae, is surrounded by a nebula, which is an expanding shell of dust and gas that is shaped by the powerful wind of the star.</p>
00:58-01:09 The huge structure, which is about five light-years wide , was created from one or more giant eruptions several thousand years ago.	 <p>The huge structure, which is about five light-years wide, was created from one or more giant eruptions several thousand years ago.</p>
01:10-01:20 The star's outer layers were blown into space, the expelled material amounting to roughly 10 times the mass of our Sun .	 <p>These outbursts are typical in the life of a rare breed of star called a Luminous Blue Variable, a brief unstable phase in the short life of an otherwise enormous star that lives fast and dies young.</p>
01:21-01:33	

These outbursts are typical in the life of a rare breed of star called a Luminous Blue Variable , a brief unstable phase in the short life of an ultra-bright, glamorous star that lives fast and dies young.	
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Total Time: 01:43