



Sharing Knowledge to create a Better World!



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# Weekly Science Report

January 14, 2022

**“We must work together to build a climate-resilient future, not only for the vulnerable communities that will pay the highest price if we do not act, but for our future generations. We must act boldly, and we must act now.”**

John Kerry

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## Introduction

Steve Detwiler created this publication with the support of Graham Hancock and the late John Anthony West to share news and information on various disciplines to include but not limited to paleontology, space sciences, genetics, and archaeology. His goal behind sharing this publication has always been very simple, by sharing knowledge we can make our world a better place. This publication is Mr. Detwiler's contribution to bring people together and share ideas and discoveries with his fellow humans.

I hope you enjoy this publication and that the content challenges and inspires you!

The Weekly Science Report is also on social media at:

- Facebook: <https://www.facebook.com/weeklysciencertp/>
- Twitter: <https://twitter.com/wklysciencertp>

## News Articles

### Paleontology, Evolution and Prehistoric Studies

Earth's first-known giant was as big as a sperm whale

<https://phys.org/news/2021-12-earth-first-known-giant-big-sperm.html>

Ancient mass migration transformed Britons' DNA

[https://www.bbc.com/news/science-environment-59741723?xtor=AL-72-%5Bpartner%5D-%5Bbbc.news.twitter%5D-%5Bheadline%5D-%5Bnews%5D-%5Bbizdev%5D-%5Bisapi%5D&at\\_custom1=%5Bpost+type%5D&at\\_custom4=057308A0-6414-11EC-87F0-F9EDBDCD475E&at\\_campaign=64&at\\_custom2=facebook\\_page&at\\_custom3=BBC+News&at\\_medium=custom7&fireglass\\_rsn=true#fireglass\\_params&tabid=a8baf80c7f51d13&start\\_with\\_session\\_counter=2&application\\_server\\_address=isolation1-us-east-1.wss.prod.fire.glass](https://www.bbc.com/news/science-environment-59741723?xtor=AL-72-%5Bpartner%5D-%5Bbbc.news.twitter%5D-%5Bheadline%5D-%5Bnews%5D-%5Bbizdev%5D-%5Bisapi%5D&at_custom1=%5Bpost+type%5D&at_custom4=057308A0-6414-11EC-87F0-F9EDBDCD475E&at_campaign=64&at_custom2=facebook_page&at_custom3=BBC+News&at_medium=custom7&fireglass_rsn=true#fireglass_params&tabid=a8baf80c7f51d13&start_with_session_counter=2&application_server_address=isolation1-us-east-1.wss.prod.fire.glass)

World-renowned Kenyan conservationist Richard Leakey dies at 77

[https://www.cnn.com/2022/01/02/world/richard-leakey-death/index.html?utm\\_medium=social&utm\\_term=link&utm\\_content=2022-01-03T01%3A29%3A06&utm\\_source=fbCNN](https://www.cnn.com/2022/01/02/world/richard-leakey-death/index.html?utm_medium=social&utm_term=link&utm_content=2022-01-03T01%3A29%3A06&utm_source=fbCNN)

Who Were the Ancestors of the Neanderthals?

[https://www.discovermagazine.com/the-sciences/who-were-the-ancestors-of-the-neanderthals?utm\\_source=dscfb&utm\\_medium=social&utm\\_campaign=dscfb](https://www.discovermagazine.com/the-sciences/who-were-the-ancestors-of-the-neanderthals?utm_source=dscfb&utm_medium=social&utm_campaign=dscfb)

Debunking the Myth of Homo Sapiens Superiority

[https://www.discovermagazine.com/the-sciences/debunking-the-myth-of-homo-sapiens-superiority?utm\\_source=dscfb&utm\\_medium=social&utm\\_campaign=dscfb&fbclid=IwAR3kxeFzvlqEk8W9Yn7Qk5bBHpDB80vxxlVID\\_h5wl1F07GS8-yppBJBqls](https://www.discovermagazine.com/the-sciences/debunking-the-myth-of-homo-sapiens-superiority?utm_source=dscfb&utm_medium=social&utm_campaign=dscfb&fbclid=IwAR3kxeFzvlqEk8W9Yn7Qk5bBHpDB80vxxlVID_h5wl1F07GS8-yppBJBqls)

Solving the disappearance of bears and lions with ancient DNA

<https://phys.org/news/2022-01-lions-ancient-dna.html?fbclid=IwAR3PdFcn2LL3kAhowvxfoaWPWQeINWIRXO2Ke1QUeygajnGXHkuLIIE77rU>

Other Mammals, Not Dinosaurs, Kept Our Ancestors Down

<https://www.smithsonianmag.com/science-nature/other-mammals-not-dinosaurs-kept-our-ancestors-down-180978040/>

Ichthyosaur: Huge fossilised 'sea dragon' found in Rutland reservoir

[https://www.bbc.com/news/science-environment-59915689?at\\_custom2=facebook\\_page&at\\_custom1=%5Bpost+type%5D&at\\_medium=custom7&at\\_campaign=64&at\\_custom3=BBC+News&at\\_custom4=9A984C40-71DB-11EC-A7BF-40660EDC252D&fbclid=IwAR1AsufG44m5famsm5puQq5hZzO0DqEk4hkJgXOqgyZp0ik1Qg9ja9yUXhQ&fireglass\\_rsn=true#fireglass\\_params&tabid=a73ba0f498ef3818&start\\_with\\_session\\_counter=2&application\\_server\\_address=isolation1-us-east-1.wss.prod.fire.glass](https://www.bbc.com/news/science-environment-59915689?at_custom2=facebook_page&at_custom1=%5Bpost+type%5D&at_medium=custom7&at_campaign=64&at_custom3=BBC+News&at_custom4=9A984C40-71DB-11EC-A7BF-40660EDC252D&fbclid=IwAR1AsufG44m5famsm5puQq5hZzO0DqEk4hkJgXOqgyZp0ik1Qg9ja9yUXhQ&fireglass_rsn=true#fireglass_params&tabid=a73ba0f498ef3818&start_with_session_counter=2&application_server_address=isolation1-us-east-1.wss.prod.fire.glass)

New study pinpoints twin triggers of Triassic era extinction event

<https://phys.org/news/2022-01-twin-triggers-triassic-era-extinction.html?fbclid=IwAR33x6DIISQ06OSPxs93m2C98g2r9daV4mFallalDK4waHxvPPiAVxZFD8>

Archeological digs in CT shed light on humans who lived over 10,000 years ago

<https://www.ctinsider.com/living/article/Archeological-digs-ct-Paleoindians-16757928.php>

Ancient Mesopotamian discovery transforms knowledge of early farming

<https://phys.org/news/2022-01-ancient-mesopotamian-discovery-knowledge-early.html>

Neolithic cattle site could change understanding of what beef meant to people of Ireland  
<https://phys.org/news/2022-01-neolithic-cattle-site-beef-meant.html>

Ancient humans may have started hunting 2 million years ago  
<https://www.newscientist.com/article/2303888-ancient-humans-may-have-started-hunting-2-million-years-ago/#Echobox=1641947969>

Earliest human remains in eastern Africa dated to more than 230,000 years ago  
<https://phys.org/news/2022-01-earliest-human-eastern-africa-dated.html>

Rare African script offers clues to the evolution of writing  
[https://phys.org/news/2022-01-rare-african-script-clues-evolution.html?fbclid=IwAR3t5\\_lqKL8BIUPQMijwPCoSisRV3QuHpxbjTFWDtFalsMOprs8z7evCA8](https://phys.org/news/2022-01-rare-african-script-clues-evolution.html?fbclid=IwAR3t5_lqKL8BIUPQMijwPCoSisRV3QuHpxbjTFWDtFalsMOprs8z7evCA8)

Our earliest, 'half-alive' ancestor needed little boost from heat  
[https://www.science.org/content/article/our-earliest-half-alive-ancestor-needed-little-boost-heat?utm\\_campaign=SciMag&utm\\_source=Social&utm\\_medium=Facebook&fireglass\\_rsn=true#fireglass\\_params&tabid=a7d0519718443d59&start\\_with\\_session\\_counter=2&application\\_server\\_address=isolation1-us-east-1.wss.prod.fire.glass](https://www.science.org/content/article/our-earliest-half-alive-ancestor-needed-little-boost-heat?utm_campaign=SciMag&utm_source=Social&utm_medium=Facebook&fireglass_rsn=true#fireglass_params&tabid=a7d0519718443d59&start_with_session_counter=2&application_server_address=isolation1-us-east-1.wss.prod.fire.glass)

Clovis hunters' reputation as mammoth killers takes a hit  
<https://www.sciencenews.org/article/clovis-hunter-stone-points-mammoth-kill-north-america?fbclid=IwAR1YvDg3Cdd74AghNZII85wsjYNxRPL7xRYWc0xIsBCNsILpINqLWjBkTuY>

10 fascinating findings about our human ancestors from 2021  
[https://www.livescience.com/10-discoveries-human-evolution-2021?fbclid=IwAR3h0YSLpCgCdRcgCZ63Y06tPebx\\_kDHb4KR\\_x0pnRCmTCKdXboSdd2La8Q&utm\\_campaign=socialflow&fireglass\\_rsn=true#fireglass\\_params&tabid=ab9699c604064f13&start\\_with\\_session\\_counter=2&application\\_server\\_address=isolation1-us-east-1.wss.prod.fire.glass](https://www.livescience.com/10-discoveries-human-evolution-2021?fbclid=IwAR3h0YSLpCgCdRcgCZ63Y06tPebx_kDHb4KR_x0pnRCmTCKdXboSdd2La8Q&utm_campaign=socialflow&fireglass_rsn=true#fireglass_params&tabid=ab9699c604064f13&start_with_session_counter=2&application_server_address=isolation1-us-east-1.wss.prod.fire.glass)

Africa's Earliest Human Burial Comes to Light  
[https://www.discovermagazine.com/planet-earth/africas-earliest-human-burial-comes-to-light?utm\\_source=dscfb&utm\\_medium=social&utm\\_campaign=dscfb](https://www.discovermagazine.com/planet-earth/africas-earliest-human-burial-comes-to-light?utm_source=dscfb&utm_medium=social&utm_campaign=dscfb)

Researchers combine paleontology and fluid physics to uncover Ediacaran nurseries  
<https://phys.org/news/2022-01-combine-paleontology-fluid-physics-uncover.html>

New archaeological findings in Tibet shed light on prehistoric human activities  
<https://news.cgtn.com/news/2022-01-13/New-findings-in-Tibet-shed-light-on-prehistoric-human-activities-16N0p6oN1za/index.html>

New study sheds light on origins of life on Earth  
<https://www.eurekalert.org/news-releases/939921>

## History

It Doesn't Belong in a Museum

[https://foreignpolicy.com/2021/12/05/nepal-art-theft-sacred-yakshi/?fbclid=IwAR2Fka7NV3HE8HvECOdYcnbLt9\\_a2IDPivqvDm20ZhI0ZTIs2SpPLB-wJ3s](https://foreignpolicy.com/2021/12/05/nepal-art-theft-sacred-yakshi/?fbclid=IwAR2Fka7NV3HE8HvECOdYcnbLt9_a2IDPivqvDm20ZhI0ZTIs2SpPLB-wJ3s)

Alexandria plans pilgrimage to Montgomery, Ala., to honor its lynching victims

[https://www.washingtonpost.com/history/2022/01/02/alexandria-montgomery-lynching-victims/?utm\\_campaign=wp\\_main&utm\\_medium=social&utm\\_source=facebook&fbclid=IwAR1y8xHdRmJeJsE8DvEPUCfVbVt1zxtcf8kFUSxBEacpOUszeu3FMHnsAhU](https://www.washingtonpost.com/history/2022/01/02/alexandria-montgomery-lynching-victims/?utm_campaign=wp_main&utm_medium=social&utm_source=facebook&fbclid=IwAR1y8xHdRmJeJsE8DvEPUCfVbVt1zxtcf8kFUSxBEacpOUszeu3FMHnsAhU)

The Once-Classified Tale of Juanita Moody

[https://www.smithsonianmag.com/history/juanita-moody-woman-helped-avert-nuclear-war-180976993/?utm\\_source=facebook.com&utm\\_medium=socialmedia&fbclid=IwAR3EMJJx5iQsvv\\_e5afEAatP1hd28V0LTBcCBKG0yKlGqSyTsRCYVlinZpg84](https://www.smithsonianmag.com/history/juanita-moody-woman-helped-avert-nuclear-war-180976993/?utm_source=facebook.com&utm_medium=socialmedia&fbclid=IwAR3EMJJx5iQsvv_e5afEAatP1hd28V0LTBcCBKG0yKlGqSyTsRCYVlinZpg84)

Why the Smithsonian is changing its approach to collecting, starting with the removal of looted Benin treasures

[https://www.washingtonpost.com/entertainment/museums/smithsonian-collecting-policy-overhaul/2022/01/05/36998dd8-6819-11ec-b0a7-13dd3af4f70f\\_story.html](https://www.washingtonpost.com/entertainment/museums/smithsonian-collecting-policy-overhaul/2022/01/05/36998dd8-6819-11ec-b0a7-13dd3af4f70f_story.html)

Is That a Burning Bush? Is This Mt. Sinai? Solstice Bolsters a Claim

<https://dnyuz.com/2021/12/31/is-that-a-burning-bush-is-this-mt-sinai-solstice-bolsters-a-claim/>

Investigating who betrayed Anne Frank and her family to the Nazis

[https://www.cbsnews.com/news/anne-frank-betrayal-investigation-60-minutes-2022-01-16/?ftag=CNM-00-10aab6a&linkId=148373214&fbclid=IwAR2qKcXclutUm\\_NVLFFIU3Q25cRVpDRK4FvRtg1tJYg\\_ZUeml8sRi\\_hh7gl](https://www.cbsnews.com/news/anne-frank-betrayal-investigation-60-minutes-2022-01-16/?ftag=CNM-00-10aab6a&linkId=148373214&fbclid=IwAR2qKcXclutUm_NVLFFIU3Q25cRVpDRK4FvRtg1tJYg_ZUeml8sRi_hh7gl)

How American Indian Storytelling Differs From the Western Narrative Structure

<https://www.schoollibraryjournal.com/?detailStory=american-indian-storytelling>

South Africans line up to pay their last respects to Desmond Tutu

<https://www.npr.org/2021/12/31/1069489082/desmond-tutu-funeral?sc=18&f=1001>

Betty White, beloved and trailblazing actress, dies at 99

[https://www.cnn.com/2021/12/31/entertainment/betty-white-obituary/index.html?utm\\_medium=social&utm\\_term=link&utm\\_source=fbCNNi&utm\\_content=2021-12-31T19%3A53%3A40Sent](https://www.cnn.com/2021/12/31/entertainment/betty-white-obituary/index.html?utm_medium=social&utm_term=link&utm_source=fbCNNi&utm_content=2021-12-31T19%3A53%3A40Sent)

In the footsteps of the women who escaped a Nazi death march

<https://www.bbc.com/news/stories-59566983>

12 fascinating facts about Galileo Galilei

[https://astronomy.com/news/2021/11/12-fascinating-facts-about-galileo-galilei?utm\\_source=asyfb&utm\\_medium=social&utm\\_campaign=asyfb&fbclid=IwAR3kxeFzvlGk8W9Yn7Qk5bBHpDB80vxxlVID\\_h5wl1F07GS8-yppBJBqls](https://astronomy.com/news/2021/11/12-fascinating-facts-about-galileo-galilei?utm_source=asyfb&utm_medium=social&utm_campaign=asyfb&fbclid=IwAR3kxeFzvlGk8W9Yn7Qk5bBHpDB80vxxlVID_h5wl1F07GS8-yppBJBqls)

Ancient Native Americans were among the world's first coppersmiths

[https://www.science.org/content/article/ancient-native-americans-were-among-world-s-first-coppersmiths?utm\\_campaign=SciMag&utm\\_source=Social&utm\\_medium=Facebook&fireglass\\_rsn=true#fireglass\\_params&tabid=af75af3548548da9&start\\_with\\_session\\_counter=2&application\\_server\\_address=isolation1-us-east-1.wss.prod.fire.glass](https://www.science.org/content/article/ancient-native-americans-were-among-world-s-first-coppersmiths?utm_campaign=SciMag&utm_source=Social&utm_medium=Facebook&fireglass_rsn=true#fireglass_params&tabid=af75af3548548da9&start_with_session_counter=2&application_server_address=isolation1-us-east-1.wss.prod.fire.glass)

Emmy Noether faced sexism and Nazism – 100 years later her contributions to ring theory still influence modern math

[https://theconversation.com/emmy-noether-faced-sexism-and-nazism-100-years-later-her-contributions-to-ring-theory-still-influence-modern-math-163245?fireglass\\_rsn=true#fireglass\\_params&tabid=ab850cb2b0ec026b&start\\_with\\_session\\_cookie=3&application\\_server\\_address=isolation1-us-east-1.wss.prod.fire.glass](https://theconversation.com/emmy-noether-faced-sexism-and-nazism-100-years-later-her-contributions-to-ring-theory-still-influence-modern-math-163245?fireglass_rsn=true#fireglass_params&tabid=ab850cb2b0ec026b&start_with_session_cookie=3&application_server_address=isolation1-us-east-1.wss.prod.fire.glass)

Forgotten 20th-Century Photography Studio Found in New York Attic

[https://www.smithsonianmag.com/smart-news/man-finds-century-old-photos-attic-including-portrait-susan-b-anthony-180976922/?utm\\_source=facebook.com&utm\\_medium=socialmedia&fbclid=IwAR2\\_ILqsyQPtIMHQ2\\_ZAsonIbY-wbpv6K8spTMnn7vJAn2XZJR1TnzTXUxg](https://www.smithsonianmag.com/smart-news/man-finds-century-old-photos-attic-including-portrait-susan-b-anthony-180976922/?utm_source=facebook.com&utm_medium=socialmedia&fbclid=IwAR2_ILqsyQPtIMHQ2_ZAsonIbY-wbpv6K8spTMnn7vJAn2XZJR1TnzTXUxg)

Antarctic ice cores help pinpoint timing of human arrival in New Zealand

<https://antarcticsun.usap.gov/science/4700>

Governor to pardon Plessy, of 'separate but equal' ruling

[https://apnews.com/article/us-supreme-court-business-arrests-new-orleans-race-and-ethnicity-6e9456e6c4517afe9e041fc9d0359179?utm\\_campaign=SocialFlow&utm\\_medium=AP&utm\\_source=Facebook&fbclid=IwAR3LLQ4TcqVGd4Rq8n82MnWwTiP1nrSokO6Wa0Ozim4QD\\_sQ0sNfugX274Y&fireglass\\_rsn=true#fireglass\\_params&tabid=a2516aeb23acfc25&start\\_with\\_session\\_cookie=2&application\\_server\\_address=isolation1-us-east-1.wss.prod.fire.glass](https://apnews.com/article/us-supreme-court-business-arrests-new-orleans-race-and-ethnicity-6e9456e6c4517afe9e041fc9d0359179?utm_campaign=SocialFlow&utm_medium=AP&utm_source=Facebook&fbclid=IwAR3LLQ4TcqVGd4Rq8n82MnWwTiP1nrSokO6Wa0Ozim4QD_sQ0sNfugX274Y&fireglass_rsn=true#fireglass_params&tabid=a2516aeb23acfc25&start_with_session_cookie=2&application_server_address=isolation1-us-east-1.wss.prod.fire.glass)

Scientists Settled a Century-Old Family Drama Using DNA From Postcards

[https://www.wired.com/story/dna-artifact-testing/?bxid=5bd6790424c17c1048020acb&cndid=41291302&esrc=twitter-newsletter-c&mbid=mbid%3DCRMWIR012019%0A%0A&source=EDT\\_WIR\\_NEWSLETTER\\_0\\_DAILY\\_ZZ&utm\\_brand=wired&utm\\_campaign=aud-dev&utm\\_content=WIR\\_Daily\\_010322&utm\\_mailing=WIR\\_Daily\\_010322&utm\\_medium=email&utm\\_source=nl&utm\\_term=list1\\_p4](https://www.wired.com/story/dna-artifact-testing/?bxid=5bd6790424c17c1048020acb&cndid=41291302&esrc=twitter-newsletter-c&mbid=mbid%3DCRMWIR012019%0A%0A&source=EDT_WIR_NEWSLETTER_0_DAILY_ZZ&utm_brand=wired&utm_campaign=aud-dev&utm_content=WIR_Daily_010322&utm_mailing=WIR_Daily_010322&utm_medium=email&utm_source=nl&utm_term=list1_p4)

Meet the Black Men Who Changed Lincoln's Mind About Equal Rights

<https://www.smithsonianmag.com/history/men-changed-changing-lincolns-mind-180979230/>

Preet Chandi is the first woman of color to complete a solo expedition in Antarctica

<https://www.npr.org/2022/01/04/1070204859/preet-chandi-first-woman-of-color-solo-antarctica-expedition?sc=18&f=1001>

Western Wall prayer site's future is in doubt under Israel's fragile government

<https://www.npr.org/2022/01/04/1070110830/western-wall-prayer-sites-future-is-in-doubt-under-israels-fragile-government?sc=18&f=1001>

The Lewis and Clark expedition from an Indigenous perspective

<https://indiancountrytoday.com/news/the-lewis-and-clark-expedition-from-an-indigenous-perspective>

Sidney Poitier, first Black man to win Oscar for best actor, dies at 94

[https://www.washingtonpost.com/local/obituaries/sidney-poitier-dies/2022/01/07/01ba4ea0-c189-11ea-9fdd-b7ac6b051dc8\\_story.html?utm\\_campaign=wp\\_main&utm\\_medium=social&utm\\_source=facebook&fbclid=IwAR0Mw4T5Oy0-DrLVXyWTaXsliO2F0HTFZe1OF0sQJj7T10wxnF5tnW1G0pw](https://www.washingtonpost.com/local/obituaries/sidney-poitier-dies/2022/01/07/01ba4ea0-c189-11ea-9fdd-b7ac6b051dc8_story.html?utm_campaign=wp_main&utm_medium=social&utm_source=facebook&fbclid=IwAR0Mw4T5Oy0-DrLVXyWTaXsliO2F0HTFZe1OF0sQJj7T10wxnF5tnW1G0pw)

Trinity College Dublin begins €90m project to relocate vulnerable books

<https://www.theguardian.com/world/2022/jan/07/trinity-college-dublin-begins-90m-project-to-relocate-vulnerable-books>

What It Means to Curate for My Native American Community

<https://hyperallergic.com/702775/what-it-means-to-curate-for-my-native-american-community/>

DNA Evidence Identifies Headless Corpse in Cave as 1916 Axe Murderer

[https://www.smithsonianmag.com/smart-news/dna-evidence-reveals-headless-corpse-cave-1916-axe-murderer-180973911/?utm\\_source=facebook.com&utm\\_medium=socialmedia](https://www.smithsonianmag.com/smart-news/dna-evidence-reveals-headless-corpse-cave-1916-axe-murderer-180973911/?utm_source=facebook.com&utm_medium=socialmedia)

The Rubin Museum of Art Will Return Two Centuries-Old Artifacts to Nepal After an Activist Group Raised the Alarm on Twitter

[https://news.artnet.com/art-world/rubin-museum-art-will-repatriate-two-centuries-old-artifacts-nepal-2058753?utm\\_content=buffer57918&utm\\_medium=social&utm\\_source=facebook.com&utm\\_campaign=news&fbclid=IwAR0\\_ul40kFtr84LjB0WoOPYuGgqxLJN1TkDDvs0ZcZyYKwBigXJYPzjZTJQ&fireglass\\_rsn=true#fireglass\\_params&tabid=a0389e4ff5c3f90a&start\\_with\\_session\\_counter=2&application\\_server\\_address=isolation1-us-east-1.wss.prod.fire.glass](https://news.artnet.com/art-world/rubin-museum-art-will-repatriate-two-centuries-old-artifacts-nepal-2058753?utm_content=buffer57918&utm_medium=social&utm_source=facebook.com&utm_campaign=news&fbclid=IwAR0_ul40kFtr84LjB0WoOPYuGgqxLJN1TkDDvs0ZcZyYKwBigXJYPzjZTJQ&fireglass_rsn=true#fireglass_params&tabid=a0389e4ff5c3f90a&start_with_session_counter=2&application_server_address=isolation1-us-east-1.wss.prod.fire.glass)

Clyde Bellecourt, co-founder of the American Indian Movement, dies of cancer at 85

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## Biological, Genetics and Medical Sciences

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Pop Culture Hero Coalition Website: <https://www.popculturehero.org/>

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- YouTube: <https://www.youtube.com/superheroirl>