

# Weekly Science Report

January 31, 2025

**"There is one thing that is stronger than all the armies in the world, and that is an idea whose time has come."**

Victor Hugo

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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/weeklysciencertpt/>
- Twitter: <https://twitter.com/wklysciencertpt>

## News Articles

### Paleontology, Evolution and Prehistoric Studies

Ape-Like Human Ancestors Were Largely Vegetarian 3.3 Million Years Ago in South Africa, Fossil Teeth Reveal

[https://www.smithsonianmag.com/smart-news/ape-like-human-ancestors-were-largely-vegetarian-33-million-years-ago-in-south-africa-fossil-teeth-reveal-180985873/?utm\\_source=smithsoniandaily&utm\\_medium=email&utm\\_campaign=editorial&spMailngID=50628043&spUserID=MTczNzQ5ODU5NjUxOAS2&spJobID=2862303702&spReportId=Mjg2MjMwMzcwMgS2](https://www.smithsonianmag.com/smart-news/ape-like-human-ancestors-were-largely-vegetarian-33-million-years-ago-in-south-africa-fossil-teeth-reveal-180985873/?utm_source=smithsoniandaily&utm_medium=email&utm_campaign=editorial&spMailngID=50628043&spUserID=MTczNzQ5ODU5NjUxOAS2&spJobID=2862303702&spReportId=Mjg2MjMwMzcwMgS2)

How a Mass Extinction Driven by Ancient Volcanoes Led to the Age of the Dinosaurs

[https://www.smithsonianmag.com/science-nature/how-a-mass-extinction-driven-by-ancient-volcanoes-led-to-the-age-of-the-dinosaurs-180985737/?utm\\_source=smithsoniandaily&utm\\_medium=email&utm\\_campaign=editorial&spMailngID=50628043&spUserID=MTczNzQ5ODU5NjUxOAS2&spJobID=2862303702&spReportId=Mjg2MjMwMzcwMgS2](https://www.smithsonianmag.com/science-nature/how-a-mass-extinction-driven-by-ancient-volcanoes-led-to-the-age-of-the-dinosaurs-180985737/?utm_source=smithsoniandaily&utm_medium=email&utm_campaign=editorial&spMailngID=50628043&spUserID=MTczNzQ5ODU5NjUxOAS2&spJobID=2862303702&spReportId=Mjg2MjMwMzcwMgS2)

A Quarry Worker Felt Strange Bumps While Digging. They Turned Out to Be the Largest Dinosaur Trackway in the U.K.

[https://www.smithsonianmag.com/smart-news/a-quarry-worker-felt-strange-bumps-while-digging-they-turned-out-to-be-the-largest-dinosaur-trackway-in-the-uk-180985774/?utm\\_source=smithsoniandaily&utm\\_medium=email&utm\\_campaign=editorial&lcg=98054053](https://www.smithsonianmag.com/smart-news/a-quarry-worker-felt-strange-bumps-while-digging-they-turned-out-to-be-the-largest-dinosaur-trackway-in-the-uk-180985774/?utm_source=smithsoniandaily&utm_medium=email&utm_campaign=editorial&lcg=98054053)

Giant, Mysterious Spires Ruled the Earth Long Before Trees Did. What Exactly Are These Odd-Looking Fossils?

[https://www.smithsonianmag.com/smart-news/giant-mysterious-spires-ruled-the-earth-long-before-trees-did-what-exactly-are-these-odd-looking-fossils-13709647/?utm\\_source=smithsoniandaily&utm\\_medium=email&utm\\_campaign=editorial&lcg=98054053](https://www.smithsonianmag.com/smart-news/giant-mysterious-spires-ruled-the-earth-long-before-trees-did-what-exactly-are-these-odd-looking-fossils-13709647/?utm_source=smithsoniandaily&utm_medium=email&utm_campaign=editorial&lcg=98054053)

Discovery in South Africa holds oldest evidence of mixing ingredients to make arrow poison

[https://phys.org/news/2025-01-discovery-south-africa-oldest-evidence.html?fbclid=IwY2xjawH\\_aztleHRuA2FlbQlXMQABHYy7Jq1aeTmf4jRuABUqJDqWdDgrBtfKNVfg1\\_KcmNbsh96hgyr\\_5x2uiA\\_aem\\_exZ--4wMabRbWGzE3nqwig#google\\_vignette](https://phys.org/news/2025-01-discovery-south-africa-oldest-evidence.html?fbclid=IwY2xjawH_aztleHRuA2FlbQlXMQABHYy7Jq1aeTmf4jRuABUqJDqWdDgrBtfKNVfg1_KcmNbsh96hgyr_5x2uiA_aem_exZ--4wMabRbWGzE3nqwig#google_vignette)

Puzzling fossils unearthed in China may rewrite the human story

[https://www.cnn.com/2025/01/24/science/china-fossils-ancient-humans-homo-juluensis-denisovans/index.html?Date=20250124&Profile=CNN+International&utm\\_content=1737735679&utm\\_medium=social&utm\\_source=facebook&fbclid=IwY2xjawIB52JleHRuA2FlbQlXMQABHdwgg0-4XORB3rdbnoPO6CDMJGkJsabWDVhp3XROcsRbMwcCHVgFilN1w\\_aem\\_h3ToiGu4cecnPJwtbP3fDA&sfnsn=mo](https://www.cnn.com/2025/01/24/science/china-fossils-ancient-humans-homo-juluensis-denisovans/index.html?Date=20250124&Profile=CNN+International&utm_content=1737735679&utm_medium=social&utm_source=facebook&fbclid=IwY2xjawIB52JleHRuA2FlbQlXMQABHdwgg0-4XORB3rdbnoPO6CDMJGkJsabWDVhp3XROcsRbMwcCHVgFilN1w_aem_h3ToiGu4cecnPJwtbP3fDA&sfnsn=mo)

Rare fossil of flying dinosaur reveals 76-million-year-old crocodile-like bite

<https://www.independent.co.uk/news/science/flying-dinosaur-bite-fossil-crocodile-canada-b2686012.html#>

DNA and radiocarbon analysis provide new insights into prehistoric mammoth bone complex

<https://phys.org/news/2025-01-dna-radiocarbon-analysis-insights-prehistoric.html>

Hand axes discovered in Iraqi desert may go back 1.5 million years

<https://phys.org/news/2025-01-axes-iraqi-million-years.html>

Discovery of a unique drainage and irrigation system that gave way to the 'Neolithic Revolution' in the Amazon

<https://phys.org/news/2025-01-discovery-unique-drainage-irrigation-gave.html>

Largest single-burial assemblage of beads confirmed at ancient Montelirio grave site

<https://phys.org/news/2025-01-largest-burial-assemblage-beads-ancient.html>

Ancient DNA analyses bring to life the 11,000-year intertwined genomic history of sheep and humans

<https://phys.org/news/2025-01-ancient-dna-analyses-life-year.html>

New evidence confirms Indigenous languages have a common source, but how they spread remains a mystery

<https://phys.org/news/2025-01-evidence-indigenous-languages-common-source.html>

How Neandertal DNA May Affect the Way We Think

<https://www.scientificamerican.com/article/how-neandertal-dna-may-affect-the-way-we-think/>

## History

A Native American tribe is closer to acquiring more land in Arizona after decades of delay

[https://apnews.com/article/hopi-arizona-land-transfer-7c3b6ddb6276463a5b2920483d23be81?taid=67683e9cae6b4b00011f4194&utm\\_campaign=TrueAnthem&utm\\_medium=AP&utm\\_source=Twitter](https://apnews.com/article/hopi-arizona-land-transfer-7c3b6ddb6276463a5b2920483d23be81?taid=67683e9cae6b4b00011f4194&utm_campaign=TrueAnthem&utm_medium=AP&utm_source=Twitter)

Trump vexes New Zealanders by claiming one of their proudest historical moments for America

<https://apnews.com/article/trump-split-atom-ernest-rutherford-zealand-inauguration-ffca9ef3aeeb77475b8db85a0d14c94e>

This Rare Printing of the Declaration of Independence Could Sell for \$4 Million

[https://www.smithsonianmag.com/smart-news/this-rare-printing-of-the-declaration-of-independence-could-sell-for-4-million-180985851/?utm\\_source=smithsoniandaily&utm\\_medium=email&utm\\_campaign=editorial&spMailID=50628043&spUserID=MTczNzQ5ODU5NjUxOAS2&spJobID=2862303702&spReportId=Mjq2MjMwMzcwMgS2](https://www.smithsonianmag.com/smart-news/this-rare-printing-of-the-declaration-of-independence-could-sell-for-4-million-180985851/?utm_source=smithsoniandaily&utm_medium=email&utm_campaign=editorial&spMailID=50628043&spUserID=MTczNzQ5ODU5NjUxOAS2&spJobID=2862303702&spReportId=Mjq2MjMwMzcwMgS2)

'Unsolvable' Code Hidden in Antique Dress Pocket Is Finally Cracked

[https://www.smithsonianmag.com/smart-news/unsolvable-code-hidden-in-antique-dress-pocket-is-finally-cracked-180983550/?utm\\_source=smithsoniandaily&utm\\_medium=email&utm\\_campaign=editorial&spMailID=50628043&spUserID=MTczNzQ5ODU5NjUxOAS2&spJobID=2862303702&spReportId=Mjq2MjMwMzcwMgS2](https://www.smithsonianmag.com/smart-news/unsolvable-code-hidden-in-antique-dress-pocket-is-finally-cracked-180983550/?utm_source=smithsoniandaily&utm_medium=email&utm_campaign=editorial&spMailID=50628043&spUserID=MTczNzQ5ODU5NjUxOAS2&spJobID=2862303702&spReportId=Mjq2MjMwMzcwMgS2)

The Enduring Mystery of a Plane That Vanished in the Icy Canadian Wilderness With 44 People On Board

[https://www.smithsonianmag.com/history/the-enduring-mystery-of-a-plane-that-vanished-in-the-icy-canadian-wilderness-with-44-people-on-board-180985878/?utm\\_source=smithsoniandaily&utm\\_medium=email&utm\\_campaign=editorial&lctg=98054053](https://www.smithsonianmag.com/history/the-enduring-mystery-of-a-plane-that-vanished-in-the-icy-canadian-wilderness-with-44-people-on-board-180985878/?utm_source=smithsoniandaily&utm_medium=email&utm_campaign=editorial&lctg=98054053)

How the Nation's First 'Madam Secretary' Fought to Save Jewish Refugees Fleeing From Nazi Germany

[https://www.smithsonianmag.com/history/how-the-nations-first-madam-secretary-fought-to-save-jewish-refugees-fleeing-from-nazi-germany-180985850/?utm\\_medium=social&utm\\_source=facebook&utm\\_campaign=editorial&utm\\_term=1212025&utm\\_content=new&fbclid=IwY2xjawH8qIRleHRuA2FlbQIxMQABHaZGn8JoIOnHdnt3hBHfGIE5eD7k2NT0BKUQ8fRqVQ48-SVJcZ5wENIBg\\_aem\\_ATqLcRaLP-Nqft5T7mmYSA](https://www.smithsonianmag.com/history/how-the-nations-first-madam-secretary-fought-to-save-jewish-refugees-fleeing-from-nazi-germany-180985850/?utm_medium=social&utm_source=facebook&utm_campaign=editorial&utm_term=1212025&utm_content=new&fbclid=IwY2xjawH8qIRleHRuA2FlbQIxMQABHaZGn8JoIOnHdnt3hBHfGIE5eD7k2NT0BKUQ8fRqVQ48-SVJcZ5wENIBg_aem_ATqLcRaLP-Nqft5T7mmYSA)

The Top Ten Most Important Ancient Documents Lost to History

[https://www.smithsonianmag.com/history/top-ten-most-important-ancient-documents-lost-history-180967495/?utm\\_medium=social&utm\\_source=facebook&utm\\_campaign=editorial&utm\\_term=1182025&utm\\_content=archival&fbclid=IwZXh0bgNhZW0CMTEAAR2wsPyZN2LkU34R64WHEXxfRI4szYiz1xn1yxZXez8MjXJuMKQC4VtiWvk\\_aem\\_5D\\_ceR\\_vAYwAKe4ZNcopDg&sfnsn=mo](https://www.smithsonianmag.com/history/top-ten-most-important-ancient-documents-lost-history-180967495/?utm_medium=social&utm_source=facebook&utm_campaign=editorial&utm_term=1182025&utm_content=archival&fbclid=IwZXh0bgNhZW0CMTEAAR2wsPyZN2LkU34R64WHEXxfRI4szYiz1xn1yxZXez8MjXJuMKQC4VtiWvk_aem_5D_ceR_vAYwAKe4ZNcopDg&sfnsn=mo)

Ten Must-See Museums Opening Around the World in 2025

[https://www.smithsonianmag.com/travel/ten-must-see-museums-opening-around-the-world-in-2025-180985814/?utm\\_medium=social&utm\\_source=facebook&utm\\_campaign=editorial&utm\\_term=1202025&utm\\_content=recent&fbclid=IwZXh0bgNhZW0CMTEAAR2lmGjgS-LGPhW\\_TuVVOZ-RJAs7n0GzDu4pPpSy\\_-10FDhNvl2algTvKdc\\_aem\\_Gd59J-dQbxuNnqhn3UMhMg&sfnsn=mo](https://www.smithsonianmag.com/travel/ten-must-see-museums-opening-around-the-world-in-2025-180985814/?utm_medium=social&utm_source=facebook&utm_campaign=editorial&utm_term=1202025&utm_content=recent&fbclid=IwZXh0bgNhZW0CMTEAAR2lmGjgS-LGPhW_TuVVOZ-RJAs7n0GzDu4pPpSy_-10FDhNvl2algTvKdc_aem_Gd59J-dQbxuNnqhn3UMhMg&sfnsn=mo)

Erasing Mount Denali

[https://ictnews.org/news/erasing-mount-denali?fbclid=IwY2xjawlDcYZleHRuA2FlbQlXMQABHSOQeueZ9eUZD72Nu9ttJ7B3ff3ioe3\\_Lkp2yBRjRR9xK0kTacsTppHz3A\\_aem\\_TSU2RSBN7kSULmES1JvhUg](https://ictnews.org/news/erasing-mount-denali?fbclid=IwY2xjawlDcYZleHRuA2FlbQlXMQABHSOQeueZ9eUZD72Nu9ttJ7B3ff3ioe3_Lkp2yBRjRR9xK0kTacsTppHz3A_aem_TSU2RSBN7kSULmES1JvhUg)

Artist marks 80th anniversary of Auschwitz liberation by donating works to Unesco

<https://www.theartnewspaper.com/2025/01/27/-80th-anniversary-auschwitz-liberation-art-unesco>

Montgomery County commissioners terminate library director, put county judge in charge

[https://www.houstonpublicmedia.org/articles/education/books-libraries/2025/01/31/512667/montgomery-county-commissioners-terminate-library-director/?fbclid=IwY2xjawlKMjVleHRuA2FlbQlXMQABHRB-Cap0B1SgHECfZZD155Fq2fBGw-NPuTffoO5Sxn-RIAz6N4rPuWi3JA\\_aem\\_ZaRoVSYpR\\_xye6Kqg\\_WgOw](https://www.houstonpublicmedia.org/articles/education/books-libraries/2025/01/31/512667/montgomery-county-commissioners-terminate-library-director/?fbclid=IwY2xjawlKMjVleHRuA2FlbQlXMQABHRB-Cap0B1SgHECfZZD155Fq2fBGw-NPuTffoO5Sxn-RIAz6N4rPuWi3JA_aem_ZaRoVSYpR_xye6Kqg_WgOw)

Paraguay's disappeared: A dictator's shadow is a roadblock for justice, but a few keep up the fight

[https://apnews.com/article/paraguay-disappeared-churches-committee-dictatorship-stroessner-e05ea3172d4611887d083d62bad9106e?utm\\_campaign=TrueAnthem&utm\\_medium=AP&utm\\_source=Facebook&fbclid=IwY2xjawlEprpleHRuA2FlbQlXMQABHevTKu1XEoOgjleJrDsfuMI5TSSVbVCxiDCU-hP\\_Axh4Y0svljzZpR8t2Q\\_aem\\_Ob9ziY9JRyz3k84mYnh1Gg](https://apnews.com/article/paraguay-disappeared-churches-committee-dictatorship-stroessner-e05ea3172d4611887d083d62bad9106e?utm_campaign=TrueAnthem&utm_medium=AP&utm_source=Facebook&fbclid=IwY2xjawlEprpleHRuA2FlbQlXMQABHevTKu1XEoOgjleJrDsfuMI5TSSVbVCxiDCU-hP_Axh4Y0svljzZpR8t2Q_aem_Ob9ziY9JRyz3k84mYnh1Gg)

Auschwitz memorial holds observances on the 80th anniversary of the death camp's liberation

[https://apnews.com/article/auschwitz-birkenau-80th-anniversary-bd9004cf75e6799394e6f74d14b4a742?utm\\_campaign=TrueAnthem&utm\\_medium=AP&utm\\_source=Facebook&fbclid=IwY2xjawlEYVVleHRuA2FlbQlXMQABHVAXcrd4BBwh0EVeHqzC6fSn-JzY5HMcL8Y4sbJMMk1N0XQ6EL3T-GedMg\\_aem\\_P7YhtWdg4hiHuCcWqeEkEw](https://apnews.com/article/auschwitz-birkenau-80th-anniversary-bd9004cf75e6799394e6f74d14b4a742?utm_campaign=TrueAnthem&utm_medium=AP&utm_source=Facebook&fbclid=IwY2xjawlEYVVleHRuA2FlbQlXMQABHVAXcrd4BBwh0EVeHqzC6fSn-JzY5HMcL8Y4sbJMMk1N0XQ6EL3T-GedMg_aem_P7YhtWdg4hiHuCcWqeEkEw)

Auschwitz: 80 years after its liberation, three survivors tell their stories

[https://www.theguardian.com/world/2025/jan/26/auschwitz-80-years-after-its-liberation-three-survivors-tell-their-stories?utm\\_source=linkedin&utm\\_campaign=auschwitz](https://www.theguardian.com/world/2025/jan/26/auschwitz-80-years-after-its-liberation-three-survivors-tell-their-stories?utm_source=linkedin&utm_campaign=auschwitz)

Fire damages a 19th century district town hall in Paris, leaving the bell tower at risk of collapse

[https://apnews.com/article/paris-town-hall-fire-bell-tower-c6ff46a0f000b28d2a4cffb30ae82f08?utm\\_campaign=TrueAnthem&utm\\_medium=AP&utm\\_source=Facebook&fbclid=IwY2xjawlFt7NleHRuA2FlbQlXMQABHflectxv3MFC\\_gSrSBvv4Lk92ga4nwdfG6rRQ-M3gJlhrB8xgBrVfQx18A\\_aem\\_6Uxbl\\_0\\_Dzokyw31PdfCug](https://apnews.com/article/paris-town-hall-fire-bell-tower-c6ff46a0f000b28d2a4cffb30ae82f08?utm_campaign=TrueAnthem&utm_medium=AP&utm_source=Facebook&fbclid=IwY2xjawlFt7NleHRuA2FlbQlXMQABHflectxv3MFC_gSrSBvv4Lk92ga4nwdfG6rRQ-M3gJlhrB8xgBrVfQx18A_aem_6Uxbl_0_Dzokyw31PdfCug)

A \$1 Million Reward Awaits Anyone Who Can Crack the Ancient Indus Script

[https://news.artnet.com/art-world/ancient-indus-valley-civilization-script-1-million-reward-2602431?fbclid=IwY2xjawlF1PFleHRuA2FlbQlXMQABHXI3h2SNqlxX9Ce1q6PMM6tNQGNDCa\\_y4-TGr7XxhYFa8Y2wlQ3buCOMbw\\_aem\\_jPpPmzb-maSddux0zmerHw](https://news.artnet.com/art-world/ancient-indus-valley-civilization-script-1-million-reward-2602431?fbclid=IwY2xjawlF1PFleHRuA2FlbQlXMQABHXI3h2SNqlxX9Ce1q6PMM6tNQGNDCa_y4-TGr7XxhYFa8Y2wlQ3buCOMbw_aem_jPpPmzb-maSddux0zmerHw)

Details finally emerge over 50 years after U.S. woman accused of 3 murders vanished from Mexican prison

[https://www.cbsnews.com/news/sharon-kinne-murders-vanished-mexican-prison-1969/?ftag=CNM-00-10aab6a&linkId=731870849&fbclid=IwY2xjawlIZnFleHRuA2FlbQlXMQABHVD79cJFfgLCr6R6M5cRLAC7miLQG-jroQrGUk3Qv2xbuBvOxJZUtmZHEg\\_aem\\_7A3HDowTBI7ZC-JM4RXJ2Q](https://www.cbsnews.com/news/sharon-kinne-murders-vanished-mexican-prison-1969/?ftag=CNM-00-10aab6a&linkId=731870849&fbclid=IwY2xjawlIZnFleHRuA2FlbQlXMQABHVD79cJFfgLCr6R6M5cRLAC7miLQG-jroQrGUk3Qv2xbuBvOxJZUtmZHEg_aem_7A3HDowTBI7ZC-JM4RXJ2Q)

Art Thieves Blew Up a Dutch Museum's Door to Steal an Ancient Golden Helmet From Romania

[https://www.smithsonianmag.com/smart-news/art-thieves-blew-up-a-dutch-museums-door-to-steal-an-ancient-golden-helmet-from-romania-180985915/?utm\\_source=smithsoniandaily&utm\\_medium=email&utm\\_campaign=editorial&lctg=98054053](https://www.smithsonianmag.com/smart-news/art-thieves-blew-up-a-dutch-museums-door-to-steal-an-ancient-golden-helmet-from-romania-180985915/?utm_source=smithsoniandaily&utm_medium=email&utm_campaign=editorial&lctg=98054053)

This Heroic Dog Raced Across the Frozen Alaskan Wilderness to Deliver Life-Saving Medicine—but His Contributions Were Long Overlooked

[https://www.smithsonianmag.com/history/this-heroic-dog-raced-across-the-frozen-alaskan-wilderness-to-deliver-life-saving-medicine-but-his-contributions-were-long-overlooked-180985905/?utm\\_source=smithsoniandaily&utm\\_medium=email&utm\\_campaign=editorial&spMailID=50643851&spUserID=MTczNzQ5ODU5NjUxOAS2&spJobID=2862924163&spReportID=Mjg2MjkyNDE2MwS2](https://www.smithsonianmag.com/history/this-heroic-dog-raced-across-the-frozen-alaskan-wilderness-to-deliver-life-saving-medicine-but-his-contributions-were-long-overlooked-180985905/?utm_source=smithsoniandaily&utm_medium=email&utm_campaign=editorial&spMailID=50643851&spUserID=MTczNzQ5ODU5NjUxOAS2&spJobID=2862924163&spReportID=Mjg2MjkyNDE2MwS2)

British Museum partly closed after fired employee broke in and shut down IT systems

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'My family was murdered at Auschwitz. Her grandfather drove trains to the camp'

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One of the Oldest Surviving Operas by a Black American Composer Will Be Performed for the First Time—138 Years After It Was Written

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Newly discovered super-Earth orbits in and out of its star's habitable zone. Could life survive its extreme climate?

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Astronaut Suni Williams, stuck in space, says she's "trying to remember what it's like to walk"

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How Are Tardigrades So 'Indestructible?' Scientists Finally Have an Explanation

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Spotted hyena found in Egypt for 1st time in 5,000 years — then trackers killed it with a pickup truck

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## Additional Informational

Earth's quasi-moons, minimoons, and ghost moons

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