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of dinosaurs are all perfectly equivalent to what we see today. In other words, they are cherry-picking facts to fit their theories.

I am absolutely certain that there is some great research and excellent work being undertaken by the Team that made this announcement, but this is far, far short of science. This is assumption and theory and conjecture based upon an entirely incomplete fact base.

In one sense it is not worth being concerned over one-off articles like this. In the fullness of time we would expect scientific peer review to challenge and refine both the method of analysis and the final conclusions of this piece of work. Well, hopefully. The concern with this specific story is evidenced by the fact that it has been picked up and linked here, on slashdot. Which means it will be picked up by other science and tech news outlets and perhaps even broader news media. This is fine if the original work is robust and defensible, but in this case [at least as far as the original piece goes] that does not appear to be true... Oh well.

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• Re: (Score:2, Insightful) by Anonymous Coward

This post is both everything right and wrong with science commentary today. Everything you posted is completely correct, and you've done a very good job explaining how to critically think about the assumptions and approximations inherent to an analysis. But... What is your proposed way to more accurately measure how fast a T-Rex can run?

This is the best effort, to date, to reasonably and scientifically arrive at an estimate. If you have a better idea, do it! That's how the field of science improves - someone

 Re:One Swallow Does Not A Summer Make (Score:5, Interesting) by phayes (202222) on Wednesday July 19, 2017 @05:35AM (#54837803) Homepage

Sometimes the best answer to some questions is "that cannot be determined with the available facts" and that

indeed seems to be the case here. Their methodology in determining the speed of a (assumed healthy) T-Rex (assumed to be) walking at it's best speed contains too many assumptions that \_cannot\_ be proven to be reliable. The parable of the blind men that

each examined a different part of an elephant and gave different descriptions applies here -- It's a wall said the one

that touched it's ribcage, no it's a tree-trunk, said the one that touched it's foot/leg, no, it's a spear said the one who touched a tusk, etc. Their work is of some interest and may indeed help to determine T-Rex's top speed -- if it is corroborated with

other sources that do not use the same assumptions. Reply to This <u>Parent</u> Share

The danger is that if we accept a scientific analysis which over-reaches the facts, then we are at risk of

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• <u>Re: (Score:2)</u>

by <u>ytene</u> (4376651) This is exactly the point.

encouraging this behaviour. If we let supposition stand and, to borrow a line from "Dead Poets Society", we "let rumour fester into fact..." then we actually undermine the credibility of the entire scientific process. I am sorry if that comes across as a

**■ Re:** (Score:2)

or both.

• <u>Re: (Score:3)</u>

**■ Re:** (Score:2)

• **Re:** (Score:2)

by TheRaven64 (641858)

Re: One Swallow Does Not A Summer Make (Score:1) by Anonymous Coward

Parent is right - it is scientifically OK to give your best estimates and the base of those estimates: data, process, caveats etc. Within the remaining I uncertainties, it is also OK to favor one explanation over another, if it fits the facts, even if

provocative or controversial claim to make, but I just think that with something like this, it's better to be cautious

it's not certain, or the only possible explanation (e.g. if the other explanation also fits the facts equally well). What

you're publishing, as a scientist, is (a) data, then (b) a plausible opinion around that data. Fellow scientists who know hie to read a publ

by dcw3 (649211) Sometimes the best answer to some questions is "that cannot be determined with the available facts" and that indeed seems to be the case here. This! But how often do we hear of a study that doesn't come to decisive conclusions? That would not likely be good

for future funding. It's fine if they're going to say..."we think it might be x because of y, and we made these assumptions". But to come out and say...most humans could outrun a T-Rex is simply bad science or poor reporting,

paper to the mainstream news. The first will list all of the caveats and the limits of their model (or be published somewhere crap and ignored by most researchers), the latter will present it as truth. One of the big problems for our society is that we often teach science as a re 1 hidden comment

Most things about dinosaurs need to be taken with a very large pinch of salt, because you're often extrapolating entire species from under half a dozen samples of skeletons. The problem is in the translation from the scientific

by gtall (79522) We also tend to teach religion as a science. The museum in Kentucky reputedly has humans riding dinosaurs based on no evidence at all. Now that's some fancy science!

humans riding dinosaurs based on no evidence at all

Oh really? Then explain this! [youtube.com] Checkmate atheists.

by penandpaper (2463226)

• Re: (Score:2, Informative) by Anonymous Coward You simply paraphrased (rather poorly) what the article clearly says. >The analysis doesn't prove that T. Rex couldn't have gone faster, however. Because trackways are records of

doesnâ(TM)t capture a dinosaurâ(TM)s peak performance, says Thomas Holtz Jr., a vertebrate paleontologist at the

single eventså"one walk along a lakeshore, for exampleå"the odds are that any particular set of footprints

University of Maryland, College Park. Moreover, he notes, the types of sediment that are go

• <u>Re:</u> (<u>Score:2</u>) by Jason Levine (196982) They don't know what it was doing at the time the tracks were made [for example, if it had been stalking prey,

maybe it was treading softly, moving slowly, so perhaps it's steps were uncharacteristic. Very good point. Imagine if - millions of years from now - a cheetah's footprints were examined by archaeologists of that era. The prints show an animal walking very slowly and carefully. They might conclude that the cheetah was a slow predator, unable to run at fast speeds. Of course, they'd be wrong. The chee

• **Re:** (Score:2) by <u>pkphilip</u> ( 6861 ) The propensity to jump to conclusions is not new. See this "research" which concluded that T-Rex's are cannibals

This is the paper: http://journals.plos.org/ploso... [plos.org]

• "We've clocked the t-rex at 32 miles per hour." (Score:2)

based on a SINGLE bite mark which they found on a T-Rex:

https://www.theguardian.com/sc... [theguardian.com]

by Black.Shuck (704538) They just need a bit of help [imgur.com].

• Humans Could Outrun T. Rex (Score:2)

• <u>Cube-square law strikes again</u> (<u>Score:1</u>)

by <u>Cyberax</u> ( 705495 )

by n329619 (4901461)

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Duh. Why would a T.Rex want to run fast? It would be far more dangerous for them than pretty much anything else

Turtles < Normal Person < Marathon runners 0.2mph < Normal Person < 8.8mph 11 mph < T-Rex < 15 mphWe're still screwed aren't we?

**■ Re:** (Score:2) by allcoolnameswheretak (1102727) I don't agree. Turtles are a major threat to our ecosystem and all living life on the planet:

"Marathon runners can average 8.8mph for 26.2 miles" (from google)

- a single stumble will likely result in broken bones and death from starvation.

Ducks are birds and birds where dinosaurs. So: Duck == Bird ^= Dinosaur Turtles eat baby ducks. And since we have established that duck ^= dinosaur, the following statement can be

Turtles eat baby ducks ^= Turtle eats Dinosaur

resolved via mathematical induction:

Incidentally, T-Rex is extinct, ergo:

Turtle > T-Rex Quod erat demonstrantum.

• <u>Re:</u> (<u>Score:3</u>) by TheRaven64 (641858) Marathon runners run quite slowly, because they have to keep going for hours. This is how primitive humans caught their prey: not by being faster, but by having a lot more stamina and keeping catching up and forcing the

prey to spring until it reached exhaustion. Most humans can run for short periods a lot faster than they can jog a marathon. That said, 15mph is a 4 minute mile, which under a thousand humans have ever done, so if the T. Rex doesn't give up after about 30 seconds then you're probably goin 1 hidden comment

**■ Re:** (Score:2)

• <u>Re: (Score:2)</u>

Reply to This

• <u>Re: (Score:2)</u>

• <u>Re: (Score:3)</u>

by Trailer Trash (60756)

Endurance Hunting (Score:2)

by dcw3 (649211)

alternative?

by Viol8 (599362)

by gtall (79522) And if they were smart humans, they waiting until the prey moved close to them, jumped out from behind a rock and startled the prey so that it had a heart attack. Then dragged said prey home. • Re: (Score:2)

You're confusing average sustained speed over long distances (26.2 miles of running) with top speed.(shorter

athletes sprint at well over 20mph, and even lesser mortals can make it into the double digits.

sprints). I read TFA as speculating on T-Rex's maximum speed (the "without bones breaking" part). As noted, top

by dcw3 (649211) Your marathon joggers go 8.8mph. World class is in the 12-13mph range

by SlaveToTheGrind (546262)

• You must be joking (Score:4, Insightful) by Viol8 (599362) on Wednesday July 19, 2017 @05:54AM (#54837849) Homepage I'm really not convinced by these arguments that our ancestors were somehow multi marathon fit and could run down anything on the plain. No native peoples today do that - they wound first with spears or arrows then follow it

As for running down a horse, you must be joking. Horses can gallop then trot for hours, long after even the fittest marathon runner would be in a sweaty heap on the ground panting like dog. And unless you're a first class tracker

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just get men to run with the post instead?

into why a Marathon is called a marathon.

https://www.youtube.com/watch?v=826HMLoiE o

<u>Parent</u>

until it dies, they don't wear it down physically!

**■** Re: (Score:2) by Viol8 (599362) Hundreds of fit marathon runners vs nothing special horses over rough ground that favours 2 legs.

you're never going to find that horse that has probably put 10 miles between you and him in the first hour.

• <u>Re: (Score:1)</u> by Anonymous Coward Now lets try it over flat grassland and what happens? Oh yeah, you get the Pony Express. I wonder why they didn't just get men to run with the post instead?

Bad example. The Pony Express was a relay system. Horses were continuously swapped out for fresh ones. There are plenty of counter-examples of societies that used human runners for messages. You might, for example, look

Now lets try it over flat grassland and what happens? Oh yeah, you get the Pony Express. I wonder why they didn't

Re: (Score:2, Interesting) by Anonymous Coward Sir David Attenborough would like a word with you.

Yes, it was a relay system, but the horse still ran the distance way faster than any man could. As for the original

It's not about running constantly behind the prey, it's about running it into places it can't perform to its fullest and never letting it rest. Most prey animals (young, sick, injured) are already wheezing after their first good sprint, the rest of the pursuit is making sure it can't reach somewhere to rest and cool off and occurs at a much more reasonable pace. Then when you've finally broken the animal you make

marathon - legend had it he dropped dead after delivering his message. Not a great advert for it.

**■ Re:** (Score:2) by avandesande (143899) Sweat glands and bipedal we can run down anything

I'm really not convinced by these arguments that our ancestors were somehow multi marathon fit and could run down anything on the plain. No native peoples today do that - they wound first with spears or arrows then follow it until it dies, they don't wear it down physically!

As for running down a horse, you must be joking. Horses can gallop then trot for hours, long after even the fittest marathon runner would be in a sweaty heap on the ground panting like dog. And unless you're a first class tracker you're never going to find that horse that has probably put 10 miles between you and him in the first hour. In the epilogue to the book "Black Elk Speaks" the author describes how the tribe that he was studying made

moccasins. This describes "endurance hunting" while also shattering the silly myth that the American Indians weren't wasteful. The story is about an Indian in his 60s who needed a new pair of moccasins. The moccasins were made of deer hide, and you had to hunt and kill the deer yourself. Nothing else was done with the deer - the entire carcass was left to rot. Only the skin for the moccasins was tak

by Tenebrousedge (1226584) I would leave the carcass of any animal that had been run to death, too. It's definitely not going to taste great after that.

• <u>Re:</u> (<u>Score:2</u>)

...then meters per seconds. Totally useless units in such an article if youâ(TM)re not from the US of A. Then don't come to a US hosted site and whine about the use of our standards. Even if they are stupid...which I'll agree to.

• mph or m/s? (Score:1) by Anonymous Coward OK, I am a trained physicist and use SI all the time, but I'd never use it for specifying land speed. How out of touch with the world can you be to give mph (which, seriously, you should switch from at some point) and m/s as an

• <u>I'm fortunate...</u> (<u>Score:2</u>) by <u>creimer</u> (824291) That I can walk faster than a walking T-Rex. Outrunning a running T-Rex might be more problematic.

• 1 hidden comment

• First they need to prove their model (Score:2) by 140Mandak262Jamuna (970587) Use the bone cross section area, max allowable stress, impact load, weight of the animal, (do not use rare foot

```
print and estimated stride length) come up with a model. Validate it with measured speed of elephants, rhinoceri
 and hippopotami adjust the fudge factors and tune the knobs.
 Then apply it to Dinosaurs.
• <u>Re:</u> (<u>Score:3</u>)
 by Entrope (68843)
 They compare T. rex to humans so that we know what to expect when Dr. Clonem von Krazee extracts DNA from
 Cretaceous amber, and a transporter accident creates a horrible half-human, half-T.-rex, half-mosquito
  abomination.
 Alternatively, because it's more engaging (or click-baity, if you like) to compare their computed top speed for a T.
 rex to a human rather than to something like the speeding limit in a mall parking lot. Which is more interesting,
  "humans could outrun T. rex" or "unlike you in a car, T. re
• Re: (Score:2)
 by dcw3 (649211)
 Finally, why spend all the time studying T-Rex/Human interaction anyway? It's not as if Humans and T-Rex ever
 lived together.
 It certainly isn't worth spending any funding on. But if you're examining the prints, and already have most of the
 other tools needed, it's just fun for the same reason Jurassic Park was fun to watch...get over it.
• Obligatory xkcd quote (Score:2)
 by LordHighExecutioner (4245243)
 Actually Randall Munroe is more worried about velociraptors [xkcd.com].
• How much money?? (Score:2)
 by grumpy-cowboy (4342983)
 How much money we will spend on ridiculous "research" like this!
• If it's unladen (Score:2)
 by WolfWithoutAClause (162946)
 is it an African or European T.Rex?
• Headline seems a bit irresponsibly worded... (Score:2)
 by doug141 (863552)
 When you consider the number of people that think humans and dinosaurs co-existed, I wish this educational
 opportunity had not been squandered.
• Cheetah's don't outrun their prey either (Score:2)
  by guruevi (827432)
 A lot of prey is faster than the hunter. Canines and most felines will in many cases simply outlast their prey before
 taking it over. It's probably why humans survived so long, because we developed stamina. Humans can run and
  hide for outstanding amounts of time whether that is hunting or being hunted.
  Predators in the wild need to account for energy spent vs energy gained as well as the danger of the prey having
 enough stamina to fight back when the hunt is over, predators will tend to give up soon if the p

    Re: (Score:2)

  by courteaudotbiz (1191083)
 I really Wonder how one can mod the OP as "redundant"?!? If so, we could say all the words in the world are
  "redundant", since they're all part of the dictionnary. And everything one could say has been said, so what's the
 point of having comments, if they're all redundant in advance, event when it's the first one?
 Citing an old joke is not redundant, if you're the first one who thought about it in the comments section...
■ Re: (Score:2)
 by <u>Deadstick</u> ( 535032 )
 You must be new here. Didn't you check the Twit Filter box?
• <u>Re:</u> (<u>Score:1</u>)
 by <u>Evtim</u> ( 1022085 )
 Two herbivore dinosaurs are grazing and talking about natural selection. Suddenly one of them freezes.
  "Shit, a T-rex! He has seen us; we are dead!". He turns to the other, who meanwhile has started running on its
 chubby legs.
 "Don't be sully", shouts the first "you can't outrun a T-rex"
  "Sure", shouts the other accelerating still, "but I can certainly outrun you!"
■ Re: (Score:2)
 by <u>crashumbc</u> (1221174)
 Plot twist, the T-Rex's vision is motion based, so he can't really see the still one.
 So he goes after and eats the one running.
■ Re: Outrun the t-rex... (Score:1)
 by Anonymous Coward
 ...and promptly crashes into a tree which, according to your assertion, he cannot see.
• Re: (Score:2, Flamebait)
 by AHuxley (892839)
 That explains the group of human foot prints and t-rex prints often found together in the mud.
 One fast human gets away as the more slower humans got raptured mid stride.
■ Re: (Score:1)
 by michelcolman (1208008)
 It also explains the remains of the portable toilet at the same location
• <u>Re:</u> (<u>Score:2</u>)
 by <u>asylumx</u> (881307)
 How did the first post get modded redundant?
• Re: Outrun the t-rex... (Score:1)
 by Anonymous Coward
 From what I've seen there is some evidence that T-Rex's were actually scavengers.
■ Re: (Score:2)
 by <u>vtcodger</u> ( 957785 )
 The wonders of "scientific" analysis. T Rex can't walk without crutches and bumblebees can't fly.
 In maybe 50 or 100 years, genetic engineering will probably be able to produce not a T Rex, but a reptilian critter
 that looks a lot like one in a lot of ways and has similar musculature, skelatal characteristics ... and teeth. Anyone
 want to bet there won't be a few non-reptilian participants eaten at the first running of the pseudo-Rex's in Rapid
 City, SD in 2067?
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