

IF THE CHEETAH SPRINTED AT MAXIMUM SPEED, HOW FAR WOULD THE CHEETAH HAVE TRAVELED?

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CHEETAHS ARE RENOWNED FOR BEING THE FASTEST LAND ANIMALS, CAPABLE OF REACHING ASTONISHING SPEEDS THAT LEAVE OTHER PREDATORS IN THE DUST. BUT JUST HOW FAR COULD A CHEETAH TRAVEL IF IT MAINTAINED ITS TOP SPEED OVER A SUSTAINED PERIOD? TO ANSWER THIS INTRIGUING QUESTION, WE NEED TO EXPLORE THE CHEETAH'S SPEED CAPABILITIES, THE BIOMECHANICS BEHIND THEIR INCREDIBLE ACCELERATION, AND THE REALISTIC LIMITATIONS THAT PREVENT THEM FROM RUNNING AT FULL THROTTLE FOR LONG DISTANCES. IN THIS COMPREHENSIVE ARTICLE, WE'LL DELVE INTO THE SCIENCE OF CHEETAH SPEED, WHAT HAPPENS DURING A HIGH-SPEED CHASE, AND THE POTENTIAL DISTANCE COVERED IF A CHEETAH SPRINTED AT MAXIMUM VELOCITY.

THE CHEETAH'S TOP SPEED: AN OVERVIEW

MAXIMUM SPEED OF A CHEETAH

THE CHEETAH (*ACINONYX JUBATUS*) HOLDS THE TITLE OF THE FASTEST LAND ANIMAL, WITH RECORDED TOP SPEEDS REACHING UP TO 60 TO 70 MILES PER HOUR (97 TO 113 KILOMETERS PER HOUR). HOWEVER, THIS SPEED IS USUALLY ACHIEVED OVER SHORT DISTANCES, TYPICALLY AROUND 200 TO 300 METERS. THE CHEETAH'S BODY IS PERFECTLY ADAPTED FOR EXPLOSIVE ACCELERATION, WITH A LIGHTWEIGHT FRAME, POWERFUL LEG MUSCLES, A FLEXIBLE SPINE, AND SPECIALIZED RESPIRATORY AND CARDIOVASCULAR SYSTEMS.

SPEED METRICS AND VARIATIONS

- AVERAGE SPRINT SPEED: 50-60 MPH (80-97 KM/H) DURING A CHASE.
- MAXIMUM RECORDED SPEED: APPROXIMATELY 70 MPH (113 KM/H) IN SHORT BURSTS.
- DURATION AT TOP SPEED: USUALLY LESS THAN 30 SECONDS.

THE MECHANICS OF A CHEETAH'S SPRINT

ACCELERATION AND POWER

CHEETAHS CAN ACCELERATE FROM 0 TO 60 MPH (0 TO 97 KM/H) IN JUST AROUND 3 SECONDS, A FEAT COMPARABLE TO SOME SPORTS CARS. THIS RAPID ACCELERATION IS FACILITATED BY:

- LARGE NASAL PASSAGES FOR INCREASED OXYGEN INTAKE.
- ENLARGED HEART AND LUNGS.
- POWERFUL LEG MUSCLES THAT GENERATE IMMENSE FORCE.
- A FLEXIBLE SPINE ALLOWING EXTENSION OF STRIDE LENGTH.

PHYSIOLOGICAL LIMITATIONS

DESPITE THEIR IMPRESSIVE SPEED, CHEETAHS FACE SIGNIFICANT PHYSIOLOGICAL CONSTRAINTS:

- LIMITED OXYGEN SUPPLY DURING HIGH-SPEED SPRINTS.
- RAPID BUILD-UP OF BODY HEAT.
- FATIGUE DUE TO MUSCLE STRAIN.
- NEED TO RECOVER AFTER A CHASE, OFTEN RESTING FOR 30 MINUTES OR MORE.

ESTIMATING THE DISTANCE TRAVELED AT MAXIMUM SPEED

TO ESTIMATE HOW FAR A CHEETAH MIGHT TRAVEL IF IT SPRINTED AT MAXIMUM SPEED CONTINUOUSLY, WE NEED TO CONSIDER REALISTIC PARAMETERS AND THE BIOLOGICAL CONSTRAINTS THAT GOVERN THEIR RUNNING ABILITY.

KEY ASSUMPTIONS FOR CALCULATION

- THE CHEETAH MAINTAINS ITS MAXIMUM SPEED OF APPROXIMATELY 60 MPH (97 KM/H).
- THE SPRINT LASTS FOR 30 SECONDS, THE TYPICAL DURATION A CHEETAH CAN SUSTAIN TOP SPEED.
- THE CHEETAH IS ABLE TO REACH THIS MAXIMUM SPEED ALMOST INSTANTLY, WHICH SIMPLIFIES CALCULATIONS.

CALCULATING DISTANCE

USING BASIC PHYSICS, DISTANCE TRAVELED IS CALCULATED AS:

$$\text{DISTANCE} = \text{SPEED} \times \text{TIME}$$

- SPEED: 60 MPH (WHICH IS APPROXIMATELY 88 FEET PER SECOND).
- TIME: 30 SECONDS.

$$\text{DISTANCE} = 88 \text{ FT/SEC} \times 30 \text{ SEC} = 2,640 \text{ FEET}$$

CONVERTING FEET TO METERS:

- 1 FOOT $\approx$ 0.3048 METERS.

$$\text{DISTANCE} = 2,640 \text{ FT} \times 0.3048 \approx 804 \text{ METERS}$$

THUS, IF A CHEETAH SPRINTED AT ITS MAXIMUM SPEED FOR A FULL 30 SECONDS, IT COULD THEORETICALLY TRAVEL AROUND 800 METERS (ABOUT HALF A MILE).

REALISTIC CONSIDERATIONS AND LIMITATIONS

WHILE THE ABOVE CALCULATION OFFERS A THEORETICAL MAXIMUM, REAL-WORLD FACTORS REDUCE THE ACTUAL DISTANCE.

FACTORS LIMITING A CHEETAH'S SPRINT

- OXYGEN AND RESPIRATION LIMITATIONS: THE CHEETAH'S RESPIRATORY SYSTEM CANNOT SUPPLY OXYGEN FAST ENOUGH TO SUSTAIN MAXIMUM OUTPUT FOR LONGER THAN 30 SECONDS.
- MUSCLE FATIGUE: RAPID MUSCLE FATIGUE SETS IN AFTER ABOUT 20-30 SECONDS OF MAXIMUM EXERTION.
- HEAT DISSIPATION: RUNNING AT HIGH SPEEDS GENERATES HEAT, WHICH CAN BE DANGEROUS IF SUSTAINED TOO LONG.
- ENERGY RESERVES: THE CHEETAH'S BURST OF SPEED RELIES ON STORED ANAEROBIC ENERGY, WHICH IS QUICKLY DEPLETED.

PRACTICAL DISTANCE IN A TYPICAL CHASE

IN REALITY, A CHEETAH'S HIGH-SPEED CHASE RARELY EXCEEDS 200-300 METERS BEFORE THE ANIMAL NEEDS TO SLOW DOWN OR STOP DUE TO EXHAUSTION. DURING SUCH CHASES:

- THE CHEETAH REACHES ABOUT 50-60 MPH.
- IT COVERS APPROXIMATELY 200 TO 300 METERS BEFORE HALTING OR NEEDING REST.

INTERESTING FACTS ABOUT CHEETAH SPEED AND CHASE DYNAMICS

CHASE STRATEGIES AND SPEED USE

- CHEETAHS OFTEN USE AN INITIAL BURST OF SPEED TO CATCH PREY.
- THEY RELY ON EXCELLENT ACCELERATION RATHER THAN SUSTAINED TOP SPEED.
- THE CHASE USUALLY LASTS LESS THAN A MINUTE, COVERING 200-400 METERS.

PHYSIOLOGICAL ADAPTATIONS FOR SPEED

- TAIL: ACTS AS A RUDDER FOR BALANCE DURING HIGH-SPEED TURNS.
- CLAWS: SEMI-RETRACTABLE, PROVIDING TRACTION.
- EYEBALLS: HAVE A HIGH-DENSITY TAPETUM LUCIDUM FOR BETTER VISION DURING HIGH-SPEED PURSUITS.

CONCLUSION: HOW FAR WOULD A CHEETAH HAVE TRAVELED AT FULL SPEED?

IN CONCLUSION, IF WE IMAGINE A SCENARIO WHERE A CHEETAH COULD SUSTAIN ITS MAXIMUM SPEED OF ABOUT 60 MPH (97 KM/H) FOR A FULL 30 SECONDS, IT WOULD TRAVEL APPROXIMATELY 800 METERS. HOWEVER, BIOLOGICAL AND PHYSIOLOGICAL CONSTRAINTS MAKE SUCH SUSTAINED MAXIMUM EFFORT PRACTICALLY IMPOSSIBLE. MOST HIGH-SPEED CHASES IN THE WILD LAST ONLY A FEW SECONDS, COVERING NO MORE THAN A FEW HUNDRED METERS.

THIS REMARKABLE ANIMAL'S INCREDIBLE SPEED IS A TESTAMENT TO EVOLUTIONARY SPECIALIZATION FOR SHORT, EXPLOSIVE BURSTS RATHER THAN LONG-DISTANCE RUNNING. THE CHEETAH'S SPEED CAPABILITIES ARE OPTIMIZED FOR QUICK, HIGH-IMPACT PURSUITS RATHER THAN ENDURANCE, MAKING IT ONE OF THE MOST FASCINATING PREDATORS ON THE PLANET.

SUMMARY OF KEY POINTS

- CHEETAHS CAN REACH SPEEDS UP TO 70 MPH BUT ONLY FOR SHORT DURATIONS.
- THEY TYPICALLY SUSTAIN THEIR TOP SPEED FOR LESS THAN 30 SECONDS.
- THEORETICALLY, AT MAXIMUM SPEED FOR 30 SECONDS, A CHEETAH WOULD TRAVEL AROUND 800 METERS.
- REAL-WORLD CHASE DISTANCES ARE MUCH SHORTER DUE TO PHYSIOLOGICAL CONSTRAINTS.
- THE CHEETAH'S SPEED IS AN EVOLUTIONARY ADAPTATION FOR RAPID, SHORT-DISTANCE PURSUITS RATHER THAN LONG-DISTANCE ENDURANCE.

IF YOU'RE PASSIONATE ABOUT WILDLIFE, ANIMAL BIOMECHANICS, OR SIMPLY FASCINATED BY THE INCREDIBLE SPEED OF THE CHEETAH, UNDERSTANDING THESE LIMITS DEEPENS OUR APPRECIATION FOR THIS MAGNIFICENT PREDATOR.

FREQUENTLY ASKED QUESTIONS

HOW FAST CAN A CHEETAH RUN AT ITS MAXIMUM SPEED?

A CHEETAH CAN REACH SPEEDS OF UP TO 60 TO 70 MILES PER HOUR (97 TO 113 KM/H) IN SHORT BURSTS.

WHAT IS THE TYPICAL DURATION A CHEETAH CAN MAINTAIN ITS TOP SPEED?

CHEETAHS CAN SUSTAIN THEIR MAXIMUM SPEED FOR ABOUT 20 TO 30 SECONDS BEFORE OVERHEATING OR TIRING.

How far can a cheetah travel at maximum speed during a typical sprint?

During a full sprint, a cheetah can cover approximately 300 to 500 meters before needing to rest.

If a cheetah sprinted at maximum speed for 30 seconds, how far would it have traveled?

Assuming an average top speed of 65 mph (about 95.3 ft/sec), in 30 seconds it would cover roughly 2,860 feet, or about 0.54 miles.

Are there any factors that limit a cheetah's maximum sprint distance?

Yes, factors such as heat buildup, muscle fatigue, and the need to catch prey restrict how long a cheetah can maintain its top speed.

How does a cheetah's sprint compare to other fast land animals?

A cheetah is the fastest land animal, surpassing animals like the pronghorn antelope, which can reach speeds of about 55 mph, but the cheetah's sprint is shorter in duration.

What adaptations enable a cheetah to achieve such high speeds?

Cheetahs have a lightweight frame, long legs, a flexible spine, large nasal passages for oxygen intake, and powerful muscles that facilitate rapid acceleration.

Additional Resources

If The Cheetah Sprinted At Maximum Speed, How Far Would The Cheetah Have Traveled?

When contemplating the incredible speed of one of nature's fastest land animals, the cheetah, many wonder just how far it could go if it maintained its top velocity over a sustained period. Known for reaching astonishing speeds of up to 70 miles per hour (112 kilometers per hour), the cheetah's burst of acceleration is nothing short of extraordinary. But this rapid acceleration and incredible top speed are fleeting, limited by biological and physiological factors. So, if a cheetah somehow managed to sprint at its maximum speed continuously, how far would it have traveled? This question sparks curiosity not only about the animal's capabilities but also about the limits imposed by biology, physics, and the environment.

In this article, we delve into the mechanics of the cheetah's speed, analyze its actual sprinting capabilities, and perform hypothetical calculations to understand the potential distance covered during a maximum-speed chase. We explore the biological constraints that prevent sustained top speeds, the physics of acceleration and energy expenditure, and compare these theoretical distances with real-world data. This comprehensive examination offers insight into the marvel of the cheetah's speed and the natural boundaries that shape it.

The Cheetah's Speed: A Biological Marvel

The Anatomy Behind the Acceleration

Cheetahs (*Acinonyx jubatus*) are uniquely adapted for explosive speed and rapid acceleration. Their anatomy features several specialized traits, including:

- **Flexible Spine:** The cheetah's spine acts like a spring, elongating and contracting during a sprint, allowing for longer strides.
- **Long Legs:** Their limbs are proportionally longer than those of other cats, facilitating greater stride length.

- **MUSCLE COMPOSITION:** A HIGH PROPORTION OF FAST-TWITCH MUSCLE FIBERS ENABLES RAPID ACCELERATION.
- **LARGE NASAL PASSAGES:** FACILITATING INCREASED OXYGEN INTAKE TO SUPPORT INTENSE MUSCULAR EFFORT.
- **CLAWS:** SEMI-RETRACTABLE CLAWS PROVIDE EXTRA GRIP, AIDING IN HIGH-SPEED TURNS AND ACCELERATION.

THESE ADAPTATIONS ALLOW CHEETAHS TO ACCELERATE FROM 0 TO 60 MILES PER HOUR (0 TO 97 KM/H) IN JUST ABOUT 3 SECONDS, COMPARABLE TO SPORTS CARS. HOWEVER, THE SPEED IS PRIMARILY A SHORT-DISTANCE PHENOMENON, OPTIMIZED FOR QUICK CHASES RATHER THAN SUSTAINED RUNNING.

THE LIMITS OF CHEETAH SPEED

WHILE THE MAXIMUM SPEED IS IMPRESSIVE, IT IS LIMITED BY SEVERAL BIOLOGICAL FACTORS:

- **ENERGETIC COST:** SPRINTING AT TOP SPEED CONSUMES VAST AMOUNTS OF ENERGY, RAPIDLY DEPLETING MUSCLE GLYCOGEN STORES.
- **THERMOREGULATION:** THE INTENSE EXERTION GENERATES HEAT; CHEETAHS CAN ONLY MAINTAIN HIGH SPEEDS UNTIL THEY OVERHEAT, TYPICALLY AROUND 20-30 SECONDS.
- **MUSCLE FATIGUE:** RAPID MUSCLE FATIGUE SETS IN QUICKLY, FORCING THE ANIMAL TO SLOW OR STOP.
- **OXYGEN SUPPLY:** DESPITE THEIR LARGE NASAL PASSAGES, OXYGEN DELIVERY CANNOT SUSTAIN MAXIMUM EFFORT LONGER THAN A BRIEF BURST.

IN REALITY, CHEETAHS TYPICALLY SPRINT FOR ONLY ABOUT 200 TO 300 METERS BEFORE NEEDING TO REST, OFTEN COVERING ONLY A FRACTION OF THEIR MAXIMUM THEORETICAL SPEED DURING A HUNT.

THE PHYSICS OF A MAXIMUM-SPEED SPRINT

ACCELERATION AND TOP SPEED

TO ANALYZE HOW FAR A CHEETAH COULD THEORETICALLY TRAVEL AT MAXIMUM SPEED, WE NEED TO UNDERSTAND THE PHYSICS INVOLVED:

- **ACCELERATION (A):** THE RATE OF CHANGE OF VELOCITY. CHEETAHS CAN ACCELERATE AT RATES OF APPROXIMATELY 9 TO 10 METERS PER SECOND SQUARED (m/s^2).
- **TIME TO REACH TOP SPEED (T):** APPROXIMATELY 3 SECONDS.
- **MAXIMUM SPEED (V):** AROUND 70 MILES PER HOUR (ABOUT 31.3 m/s).

USING BASIC KINEMATICS:

$$V = A \times T$$

WHERE:

- V = FINAL VELOCITY (TOP SPEED)
- A = ACCELERATION
- T = TIME TO REACH TOP SPEED

GIVEN THE ACCELERATION, THE CHEETAH REACHES ITS TOP SPEED IN ABOUT 3 SECONDS, CONSISTENT WITH OBSERVED DATA.

ENERGY AND POWER CONSIDERATIONS

MAINTAINING TOP SPEED INVOLVES OVERCOMING AIR RESISTANCE, GROUND FRICTION, AND INTERNAL MUSCULAR RESISTANCE. THE POWER OUTPUT REQUIRED TO SUSTAIN MAXIMUM VELOCITY IS ENORMOUS, AND BIOLOGICAL SYSTEMS ARE NOT DESIGNED FOR PROLONGED EXERTION AT THIS LEVEL.

HYPOTHETICAL SCENARIO: HOW FAR COULD A CHEETAH TRAVEL AT MAXIMUM SPEED?

ASSUMPTIONS FOR THE CALCULATION

TO ESTIMATE THE DISTANCE TRAVELED IF A CHEETAH MAINTAINED MAXIMUM SPEED CONTINUOUSLY, WE MAKE THE FOLLOWING ASSUMPTIONS:

- THE CHEETAH INSTANTLY REACHES TOP SPEED AND MAINTAINS IT WITHOUT FATIGUE.
- THE ENVIRONMENT IS FLAT AND UNOBSTRUCTED.
- EXTERNAL FACTORS LIKE AIR RESISTANCE AND GROUND FRICTION ARE CONSIDERED CONSTANT.
- THE SCENARIO IS PURELY HYPOTHETICAL, IGNORING BIOLOGICAL CONSTRAINTS.

CALCULATION METHODOLOGY

GIVEN:

- $(v = 31.3 \text{ m/s})$

IF THE CHEETAH MAINTAINS THIS SPEED FOR A DURATION (t) , THE DISTANCE (d) TRAVELED IS:

$[d = v \times t]$

LET'S EXAMINE VARIOUS DURATIONS:

DURATION (SECONDS)	DISTANCE TRAVELED (METERS)	DISTANCE TRAVELED (MILES)
5 SECONDS	156.5	0.097
10 SECONDS	313.0	0.194
20 SECONDS	626.0	0.389
30 SECONDS	939.0	0.583

CONVERTED TO MORE FAMILIAR UNITS:

- 5 SECONDS: THE CHEETAH WOULD COVER APPROXIMATELY 156.5 METERS (~514 FEET).
- 10 SECONDS: ABOUT 313 METERS (~1027 FEET).
- 20 SECONDS: NEARLY 626 METERS (~2054 FEET).
- 30 SECONDS: CLOSE TO 939 METERS (~0.58 MILES).

THESE DISTANCES ARE COMPARABLE TO A FEW FOOTBALL FIELDS OR A SHORT CITY BLOCK, ILLUSTRATING JUST HOW FLEETING SUCH HIGH SPEEDS ARE IN REALITY.

REAL-WORLD CONSTRAINTS: WHY A CHEETAH CANNOT MAINTAIN TOP SPEED

WHILE THESE CALCULATIONS PROVIDE A THEORETICAL MAXIMUM, REAL-WORLD FACTORS DRASTICALLY LIMIT SUSTAINED HIGH-SPEED CHASES:

PHYSIOLOGICAL FATIGUE

THE INTENSE EXERTION DURING A SPRINT RAPIDLY EXHAUSTS MUSCLES. CHEETAHS TYPICALLY RUN AT TOP SPEED FOR ONLY 20-30 SECONDS BEFORE THE BUILDUP OF LACTIC ACID CAUSES FATIGUE.

HEAT DISSIPATION LIMITS

OVERHEATING IS A CRITICAL ISSUE. DURING HIGH-SPEED PURSUITS, THE CHEETAH'S BODY TEMPERATURE RISES SWIFTLY, AND IT MUST SLOW DOWN TO AVOID HEAT STROKE.

ENERGY DEPLETION

THE QUICK DEPLETION OF GLYCOGEN STORES MEANS THE CHEETAH CANNOT SUSTAIN MAXIMUM EFFORT BEYOND A BRIEF PERIOD.

POST-SPRINT, THE ANIMAL NEEDS SUBSTANTIAL REST AND RECOVERY.

ENVIRONMENTAL FACTORS

TERRAIN, OBSTACLES, AND PREY BEHAVIOR INFLUENCE THE ACTUAL DISTANCE A CHEETAH CAN COVER IN A CHASE. AN OPEN PLAIN FACILITATES LONGER SPRINTS, WHEREAS DENSE VEGETATION OR RUGGED TERRAIN LIMITS SPEED AND DISTANCE.

COMPARING THE HYPOTHETICAL TO REALITY

IN ACTUAL HUNTING SCENARIOS, CHEETAHS RARELY SPRINT MORE THAN 200-300 METERS AT TOP SPEED, OFTEN COVERING LESS THAN 100 METERS IN A BURST. THEIR TYPICAL PURSUIT INVOLVES QUICK ACCELERATION, A BRIEF MAXIMUM-SPEED CHASE, AND RAPID DECELERATION ONCE THE PREY IS WITHIN REACH.

KEY POINTS:

- MAXIMUM THEORETICAL DISTANCE AT TOP SPEED: SEVERAL HUNDRED METERS IF ONE IGNORES BIOLOGICAL CONSTRAINTS.
- REAL-WORLD MAXIMUM DISTANCE: USUALLY LESS THAN 300 METERS, CONSTRAINED BY PHYSIOLOGY AND ENVIRONMENT.

BROADER IMPLICATIONS AND FASCINATING INSIGHTS

UNDERSTANDING THE LIMITS OF A CHEETAH'S SPEED OFFERS INSIGHTS INTO THE EVOLUTIONARY TRADE-OFFS THAT SHAPE PREDATOR AND PREY DYNAMICS. THE CHEETAH'S INCREDIBLE ACCELERATION AND FLEETING TOP SPEED ARE OPTIMIZED FOR SHORT, EXPLOSIVE BURSTS RATHER THAN ENDURANCE. THIS SPECIALIZATION INFLUENCES HUNTING STRATEGIES, PREY SELECTION, AND HABITAT USE.

MOREOVER, THIS ANALYSIS UNDERSCORES THE IMPORTANCE OF BIOLOGICAL CONSTRAINTS. EVEN THE FASTEST LAND ANIMAL IS LIMITED BY INTERNAL AND EXTERNAL FACTORS, ILLUSTRATING HOW EVOLUTION BALANCES SPEED WITH STAMINA, ENERGY EFFICIENCY, AND SURVIVAL.

FINAL THOUGHTS: THE MARVEL OF SPEED AND ITS LIMITS

THE QUESTION OF HOW FAR A CHEETAH WOULD TRAVEL IF IT SPRINTED AT MAXIMUM SPEED IS A CAPTIVATING BLEND OF BIOLOGY, PHYSICS, AND HYPOTHETICAL REASONING. WHILE THE ANIMAL'S TOP SPEED IS PHENOMENAL, IT IS INHERENTLY SHORT-LIVED DUE TO PHYSIOLOGICAL CONSTRAINTS. IN PRACTICAL TERMS, A CHEETAH'S MAXIMUM SPEED CHASE COVERS A FEW HUNDRED METERS AT BEST, A REMARKABLE FEAT THAT SHOWCASES EVOLUTIONARY INGENUITY WITHIN NATURAL LIMITS.

UNDERSTANDING THESE BOUNDARIES NOT ONLY HIGHLIGHTS THE CHEETAH'S EXTRAORDINARY ADAPTATIONS BUT ALSO EMPHASIZES THE DELICATE BALANCE OF SPEED, ENERGY, AND SURVIVAL IN THE ANIMAL KINGDOM. AS FASCINATING AS THE IDEA OF SUSTAINED MAXIMUM SPEED IS, IT REMAINS A THEORETICAL SCENARIO—ONE THAT CELEBRATES THE CHEETAH'S ROLE AS THE QUINTESSENTIAL SPRINTER RATHER THAN A MARATHON RUNNER.

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