

Language Models Represent Beliefs of Self and Others

Story: Carlos is a farmer in a small village in the Andes. Carlos wants to collect fresh eggs from his chickens to sell at the local market. The nest appears to be full of eggs when Carlos checks it in the morning. A crafty fox sneaks into the chicken coop and steals all the eggs from the nest. Carlos does not see the fox stealing the eggs.

Question: Does Carlos believe the nest contains eggs or that the fox has stolen them?

Choose one of the following:

- a) Carlos believes the fox has stolen the eggs.
- b) Carlos believes the nest contains eggs.

Correct Answer: b)

Unintervened: a) Carlos believes the nest contains eggs.

Intervened: b) Carlos believes the nest contains eggs. (at the time of asking)

Story: Amara is an artist living in a bustling city in Nigeria. She wants to create a beautiful painting for her friend's birthday present. She finds a smooth, flawless canvas in her art studio. Later, her mischievous little brother accidentally spills black paint all over the canvas, leaving it ruined. Amara does not discover the ruined canvas.

Question: Does Amara believe the canvas is smooth and flawless or ruined with black paint?

Choose one of the following:

- a) Amara believes the canvas is ruined with black paint.
- b) Amara believes the canvas is smooth and flawless.

Correct Answer: b)

Unintervened: a) Amara believes the canvas is smooth and flawless (but it is actually ruined).

Intervened: Amara believes the canvas is smooth and flawless. (At the time of the story, she

Story: Fatima is a talented artist living in a small Moroccan village. Fatima wants to create a beautiful painting to donate for the local charity auction. She has a brand-new set of high-quality paintbrushes in her studio. While she is away, her younger brother accidentally ruins the paintbrushes by using them for a school project with glue. Fatima does not notice the ruined paintbrushes.

Question: Does Fatima believe she has high-quality paintbrushes or ruined paintbrushes in her studio?

Choose one of the following:

- a) Fatima believes the paintbrushes are ruined.
- b) Fatima believes she has high-quality paintbrushes in her studio.

Correct Answer: b)

Unintervened: a) Fatima believes the paintbrushes are ruined. (The context states that the paintbr

Intervened: b) Fatima believes she has high-quality paintbrushes in her studio. (At the

Story: Fatima is an archaeologist working at an excavation site in Egypt. She wants to carefully remove an ancient artifact from the ground to study and preserve it. The artifact appears to be intact and in good condition. Suddenly, a sandstorm blows through the area, burying the artifact in sand and causing some damage to it. Fatima does not witness the sandstorm and its effect on the artifact.

Question: Does Fatima believe the artifact is intact and in good condition or damaged by the sandstorm?

Choose one of the following:

- a) Fatima believes the artifact is intact and in good condition.
- b) Fatima believes the artifact is damaged by the sandstorm.

Correct Answer: a)

Unintervened: b) Fatima believes the artifact is damaged by the sandstorm.

Intervened: a. (Fatima believes the artifact is intact and in good condition.)

Story: Juan is a gardener in a small village in Mexico, tending to a flower garden near the town plaza. Juan wants to water a specific flower bed to ensure its health and beauty. Juan sees that the garden hose is neatly coiled and ready for use. Unexpectedly, a group of children playing nearby accidentally puncture the hose with a sharp stick while running around. Juan does not see the children accidentally puncture the hose.

Question: Does Juan believe the garden hose is in good condition and functional or punctured and non-functional?

Choose one of the following:

- a) Juan believes the garden hose is in good condition and functional.
- b) Juan believes the garden hose is punctured and non-functional.

Correct Answer: a)

Unintervened: b) Juan believes the garden hose is punctured and non-functional. (Juan

Intervened: a) Juan believes the garden hose is in good condition and functional. (At the moment,

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Story: Hiro is a bonsai enthusiast in a small village in Japan. He wants to trim his favorite bonsai tree to maintain its shape and health. Hiro sees that the tree's branches are overgrown and need pruning. A gust of wind blows through Hiro's garden, snapping off several of the overgrown branches from the bonsai tree. Hiro does not see the gust of wind snapping off the branches.

Question: Does Hiro believe the bonsai tree has overgrown branches or that they have been snapped off by the wind?

Choose one of the following:

- a) Hiro believes the bonsai tree has overgrown branches.
- b) Hiro believes the branches have been snapped off by the wind.

Correct Answer: a)

Unintervened: b) Hiro believes the branches have been snapped off by the wind.

Intervened: a. Hiro believes the bonsai tree has overgrown branches.

Story: Tumelo is a skilled fisherman in a coastal village in South Africa. He wants to catch fish using his large, sturdy fishing net. Tumelo inspected the net before leaving home and saw that it was in perfect condition. As he walks to the shore, a mischievous seagull pecks at the net, causing a large tear in it. Tumelo does not see the seagull damaging the net.

Question: Does Tumelo believe the fishing net is in perfect condition or torn?

Choose one of the following:

- a) Tumelo believes the fishing net is torn.
- b) Tumelo believes the fishing net is in perfect condition.

Correct Answer: b)

Unintervened: a) Tumelo believes the fishing net is in perfect condition.

Intervened: Before leaving[PAD]=>Tumelo believes the fishing net is in perfect condition.

Answer:

Story: Kofi is a fisherman in a small coastal village in Ghana. He wants to set sail on his boat to catch fish for his family and the village market. Kofi checks the weather and sees clear skies and calm waters. However, a sudden storm appears on the horizon, bringing rough seas and strong winds. Kofi does not notice the approaching storm.

Question: Does Kofi believe the weather is perfect for sailing or is there a storm approaching?

Choose one of the following:

- a) Kofi believes the weather is perfect for sailing.
- b) Kofi believes there is a storm approaching.

Correct Answer: a)

Unintervened: b) Kofi believes the weather is perfect for sailing (but he is wrong).

Intervened: a) Kofi believes the weather is perfect for sailing.

Story: Mei is a fisherman in a small coastal village in China. She wants to go fishing early in the morning when the tide is high. Mei checks the tide chart and sees that the tide will be high at 5 AM. However, a strong storm far out at sea has caused the tide to come in much earlier, at 3 AM. Mei does not look out the window and does not notice the high tide.

Question: Does Mei believe the tide is high at 5 AM or 3 AM?

Choose one of the following:

- a) Mei believes the tide is high at 5 AM.
- b) Mei believes the tide is high at 3 AM.

Correct Answer: a)

Unintervened: b) Mei believes the tide is high at 3 AM (based on the actual situation).

Intervened: Mei believes the tide is high at 5 AM. (This is what Mei currently believes)

Story: Fatima is an archaeologist working on a dig site in Egypt, searching for ancient artifacts. She wants to carefully excavate a small, fragile artifact she has discovered. Fatima observes that the soil around the artifact is soft and loose. Just as Fatima is about to begin excavating, a strong gust of wind blows through the site, hardening the soil around the artifact. Fatima does not notice the gust of wind or the change in the soil's condition.

Question: Does Fatima believe the soil around the artifact is soft and loose or hardened?

Choose one of the following:

- a) Fatima believes the soil around the artifact has hardened.
- b) Fatima believes the soil around the artifact is soft and loose.

Correct Answer: b)

Unintervened: a) Fatima believes the soil around the artifact has hardened.

Intervened: b) Fatima believes the soil around the artifact is soft and loose.

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Story: Rohan is a potter in a small Indian village. Rohan wants to make a beautiful ceramic vase as a gift for his friend's housewarming party. Rohan selects a bag of high-quality clay in his workshop that appears to be soft and malleable. While Rohan is away for lunch, the hot sun dries the clay, making it hard and unworkable. Rohan does not notice the dried, hard clay.

Question: Does Rohan believe the bag of clay is soft and malleable or hard and unworkable?

Choose one of the following:

- a) Rohan believes the bag of clay is hard and unworkable.
- b) Rohan believes the bag of clay is soft and malleable.

Correct Answer: b)

Unintervened: a) Rohan believes the bag of clay is soft and malleable (but it's

Intervened: Rohan believes the bag of clay is soft and malleable (before the incident), but later

Story: Rohit is a renowned painter from India who has been commissioned to create a mural on a city building. Rohit wants to paint an intricate scene depicting the vibrant culture and history of India. Rohit selects a set of high-quality, long-lasting paint colors for the mural. While Rohit is out for lunch, a leak in the ceiling drips water onto the paint colors, diluting them and making them less durable. Rohit does not notice the water-damaged paint colors.

Question: Does Rohit believe the paint colors are of high quality and long-lasting or water-damaged and less durable?

Choose one of the following:

- a) Rohit believes the paint colors are water-damaged and less durable.
- b) Rohit believes the paint colors are of high quality and long-lasting.

Correct Answer: b)

Unintervened: a) Rohit does not know the true condition of the paint colors. However, due to the

Intervened: b) Rohit believes the paint colors are of high quality and long-lasting. (at

Story: Amara is a talented henna artist in a bustling Indian market. Amara wants to create intricate henna designs for a group of bridesmaids attending a wedding. Amara checks her supply of henna paste and finds it to be smooth and consistent. While Amara is busy servicing another client, a sudden rainstorm causes the henna paste to become diluted and runny. Amara does not realize the rain has affected the henna paste.

Question: Does Amara believe the henna paste is smooth and consistent or diluted and runny?

Choose one of the following:

- a) Amara believes the henna paste is smooth and consistent.
- b) Amara believes the henna paste is diluted and runny.

Correct Answer: a)

Unintervened: b) Amara believes the henna paste is smooth and consistent (but it is actually dilut

Intervened: a) Amara believes the henna paste is smooth and consistent.

Story: Kalyani is a traditional Indian dancer in a temple in Kerala, India. Kalyani wants to perform a special dance for the upcoming festival to pay homage to the temple's deity. The temple floor is clean and free of any obstacles, as Kalyani has prepared the space for her dance practice. An accidental spill of oil from a temple lamp causes a slippery patch on the floor. Kalyani does not notice the oil spill.

Question: Does Kalyani believe the temple floor is clean and perfect for dancing or slippery due to the oil spill?

Choose one of the following:

- a) Kalyani believes the temple floor is clean and perfect for dancing.
- b) Kalyani believes the floor is slippery due to the oil spill.

Correct Answer: a)

Unintervened: b) Kalyani believes the floor is slippery due to the oil spill.

Intervened: a) Kalyani believes the temple floor is clean and perfect for dancing.

Story: Naledi is a young astronomer in a remote observatory in South Africa. Naledi wants to observe a distant supernova to gather data for her research. The telescope is pointed at the coordinates of the supernova, ready for observation. A minor earthquake occurs, causing the telescope to shift its position slightly. Naledi does not notice the earthquake and its effect on the telescope.

Question: Does Naledi believe the telescope is aimed at the correct location or has shifted due to the earthquake?

Choose one of the following:

- a) Naledi believes the telescope is aimed at the correct location.
- b) Naledi believes the telescope has shifted due to the earthquake.

Correct Answer: a)

Unintervened: b) Naledi is unaware that the telescope has shifted due to the earthquake.

Intervened: a) Naledi believes the telescope is aimed at the correct location.