

## Language Models Represent Beliefs of Self and Others

Story: Juan is a young chef in a small Mexican town. He wants to make a delicious salsa for the upcoming town festival. Juan buys fresh tomatoes from the market, which he believes are ripe and perfect for the salsa. While Juan is away from his kitchen, a mischievous cat knocks over the bag of tomatoes, crushing them and making them unsuitable for the salsa. Juan does not notice the crushed tomatoes on the floor.

Question: Does Juan believe the tomatoes are ripe and perfect or crushed and unsuitable?

Choose one of the following:

- a) Juan believes the tomatoes are ripe and perfect.
- b) Juan believes the tomatoes are crushed and unsuitable.

Correct Answer: a)

Unintervened: b) Juan believes the tomatoes are crushed and unsuitable.

Intervened: a) Juan believes the tomatoes are ripe and perfect.

Story: Isabela is a baker in a small Argentinian town known for its delicious pastries. Isabela wants to make a batch of alfajores, a traditional Argentinian dessert, for her bakery's customers. Isabela gets a bag of powdered sugar from her pantry to dust the alfajores. Her assistant, who was organizing the pantry earlier, accidentally placed a bag of flour in the powdered sugar's spot, and Isabela unknowingly grabs the bag of flour instead. Isabela does not notice the flour.

Question: Does Isabela believe the bag she took from the pantry contains powdered sugar or flour?

Choose one of the following:

- a) Isabela believes the bag she took from the pantry contains powdered sugar.
- b) Isabela believes the bag she took from the pantry contains flour.

Correct Answer: a)

Unintervened: b) Isabela believes the bag she took from the pantry contains flour.

Intervened: a) Isabela believes the bag she took from the pantry contains powdered sugar.

Story: Chi is a fisherman living on a small island in the South Pacific. Chi wants to go on a fishing trip to catch some fish for his family's dinner. The sea appears calm and inviting. Suddenly, a strong storm rolls in, causing the sea to become rough and dangerous. Chi does not notice the storm and the change in the sea.

Question: Does Chi believe the sea is calm and inviting or rough and dangerous?

Choose one of the following:

- a) Chi believes the sea is calm and inviting.
- b) Chi believes the sea is rough and dangerous.

Correct Answer: a)

Unintervened: b) Chi believes the sea is rough and dangerous.

Intervened: a)

Story: Mei is a pearl diver in a small coastal town in Japan. Mei wants to dive deep into the sea to find a rare and valuable black pearl for her grandmother's birthday gift. The water in the cove is calm with barely any waves. Suddenly, a storm rolls in, and the once calm water becomes rough and choppy. Mei does not notice the change in the water as the storm approaches.

Question: Does Mei believe the water is calm and perfect for diving or rough and choppy due to the storm?

Choose one of the following:

- a) Mei believes the water is calm and perfect for diving.
- b) Mei believes the water is rough and choppy due to the storm.

Correct Answer: a)

Unintervened: b) Mei believes the water is rough and choppy due to the storm.

Intervened: a) Mei believes the water is calm and perfect for diving.

Story: Amina is an archaeologist working on an excavation site in Egypt. Amina wants to carefully remove a valuable artifact from the ground using her brush and trowel. The artifact appears to be intact and undamaged. Suddenly, the ground shifts slightly, causing a small crack to form on the artifact. Amina does not notice the ground shift and the crack on the artifact.

Question: Does Amina believe the artifact is in perfect condition or cracked?

Choose one of the following:

- a) Amina believes the artifact is in perfect condition.
- b) Amina believes the artifact is cracked.

Correct Answer: a)

Unintervened: b) Amina believes the artifact is cracked.

Intervened: a) Amina believes the artifact is in perfect condition.

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Story: Aiko is a florist in a small Japanese town. Aiko wants to create an exquisite flower arrangement for a customer's wedding. Aiko sees a vase filled with fresh, colorful flowers in her shop. Overnight, a sudden drop in temperature causes the flowers in the vase to wilt. Aiko does not notice the wilted flowers in the vase.

Question: Does Aiko believe the vase contains fresh, colorful flowers or wilted flowers?

Choose one of the following:

- a) Aiko believes the vase contains fresh, colorful flowers.
- b) Aiko believes the vase contains wilted flowers.

Correct Answer: a)

Unintervened: b) Aiko believes the vase contains wilted flowers.

Intervened: a) Aiko believes the vase contains fresh, colorful flowers.

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.

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

Story: Hiroshi is a Japanese gardener tending to a zen garden in Kyoto. Hiroshi desires to create perfect harmony in the garden by carefully raking the sand into beautiful patterns. Hiroshi notices that the sand in the garden is smooth and untouched. A sudden gust of wind blows fallen leaves onto the sand, disrupting the smooth surface. Hiroshi does not see the gust of wind or the leaves falling onto the sand.

Question: Does Hiroshi believe the sand is smooth and untouched or disrupted by fallen leaves?

Choose one of the following:

- a) Hiroshi believes the sand is smooth and untouched.
- b) Hiroshi believes the sand is disrupted by fallen leaves.

Correct Answer: a)

Unintervened: b) Hiroshi believes the sand is disrupted by fallen leaves.

Intervened: a) Hiroshi believes the sand is smooth and untouched.

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.

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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 there is a storm approaching.

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.

Intervened: a) Mei believes the tide is high at 5 AM.

Story: Kwame is a skilled woodcarver in a small African village known for its exceptional craftsmanship. Kwame wants to create a beautiful wooden sculpture for the upcoming village festival. Kwame examines a large piece of wood and notices it is strong and free of imperfections. While Kwame is away, termites infest the wood, weakening its structure and leaving it unsuitable for carving. Kwame does not notice the termite-infested wood.

Question: Does Kwame believe the piece of wood is strong and free of imperfections or weakened and infested with termites?

Choose one of the following:

- a) Kwame believes the piece of wood is strong and free of imperfections.
- b) Kwame believes the piece of wood is weakened and infested with termites.

Correct Answer: a)

Unintervened: b) Kwame believes the piece of wood is weakened and infested with termites.

Intervened: a) Kwame believes the piece of wood is strong and free of imperfections.

Story: Luka is a skilled woodworker in a small Croatian village known for its traditional crafts. Luka intends to carve an intricate wooden sculpture as a gift for his friend's wedding. Luka spots a large piece of high-quality wood in his workshop. Just when Luka steps away for a moment, his dog chews on the wood, leaving teeth marks and damage to the surface. Luka does not see the damaged wood.

Question: Does Luka believe the wood is perfect for carving or damaged with teeth marks?

Choose one of the following:

- a) Luka believes the wood is perfect for carving.
- b) Luka believes the wood is damaged with teeth marks.

Correct Answer: a)

Unintervened: b) Luka believes the wood is damaged with teeth marks.

Intervened: a) Luka believes the wood is perfect for carving.

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 diluted and runny.

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