

[EPM] Episodic Memory

QA-Ego4D

Clue Time: 5:22
 Question: Where was the kitchen paper towel before I picked it?
 Options: **A. top of the kitchen sink**; B. under the sink;
 C. on the counter; D. on the stove

Clue Time: 3:44
 Question: What did I pick from the fridge?
 Options: A. bread; B. milk; **C. vegetable**; D. water



Clue Time: 5:25
 Question: How many rolls of paper towel did I cut?
 Options: A. two; **B. one**; C. three; D. four

Clue Time: 6:36
 Question: Did I leave the drawer open?
 Options: A. yes; **B. no**

Query At the End

Clue Time: 1:59
 Question: Where was the paper towel before I picked it?
 Options: A. on the counter; B. on the cupboard;
C. on the table; D. in the dish washer

Clue Time: 3:05
 Question: What drawer did I pull?
 Options: **A. dish washer**; B. microwave;
 C. cupboard; D. fridge



Clue Time: 4:09
 Question: What did I pour in the container?
 Options: A. flour; **B. bread crumbs**; C. salt; D. pepper

Clue Time: 3:13
 Question: Where was the plate before I picked it?
 Options: A. on the counter; **B. on the cupboard**
 C. on the table; D. in the dish washer

Query At the End

Open-EQA

Clue Time: 0:43
 Question: What is the gold object on the nightstand?
 Options: A. A painting; B. A mirror;
C. A nightlamp; D. A vase

Clue Time: 0:50
 Question: Is this home on the first floor?
 Options: A. Yes, it's on the first floor;
B. No, it's on the second floor;



Clue Time: 1:10
 Question: Where can I sit and eat if I don't want to use the dining table?
 Options: **A. Use the kitchen bar counter**; B. Use the floor in the hallway;
 C. Use the bed in the bedroom; D. Use the couch in the living room

Clue Time: 1:10
 Question: What color is the smoke detector?
 Options: A. White; **B. Yellow or off-white**;
 C. Black; D. Blue

Query At the End

[HLD] Hallucination Detection

QA-Ego4D

Query Time: 6:11

Question: what did I put in the black dustbin?
Options: A. empty water bottles; **B. Unable to answer;**
C. old newspapers; D. food scraps

Query Time: 6:44

Question: Where did I put the vacuum cleaner head?
Options: A. closet; **B. Unable to answer;**
C. bathroom; D. kitchen



Clue Time: 7:10

Clue Time: 7:30

Query Time: 6:48

Question: Where were game boards?
Options: **A. Unable to answer;** B. in the shelves;
C. in the fridge; D. in the bags

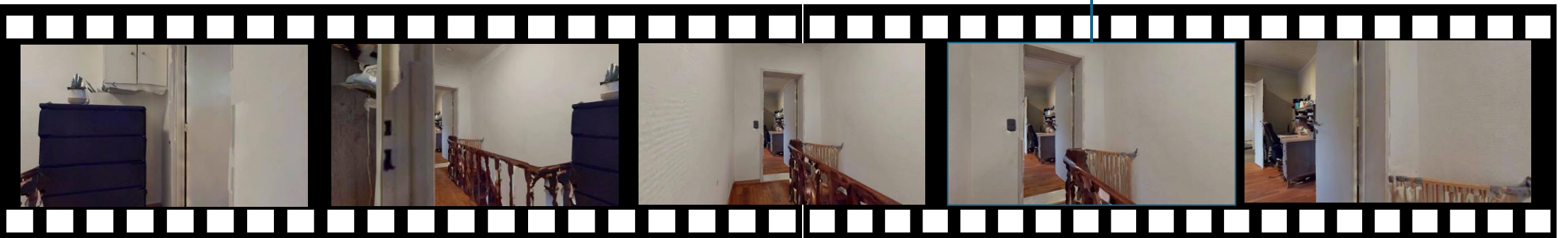


Clue Time: 7:55

Open-EQA

Query Time: 0:35

Question: what color is the flower in the bottom floor?
Options: A. Red; **B. Unable to answer;**
C. Blue; D. White



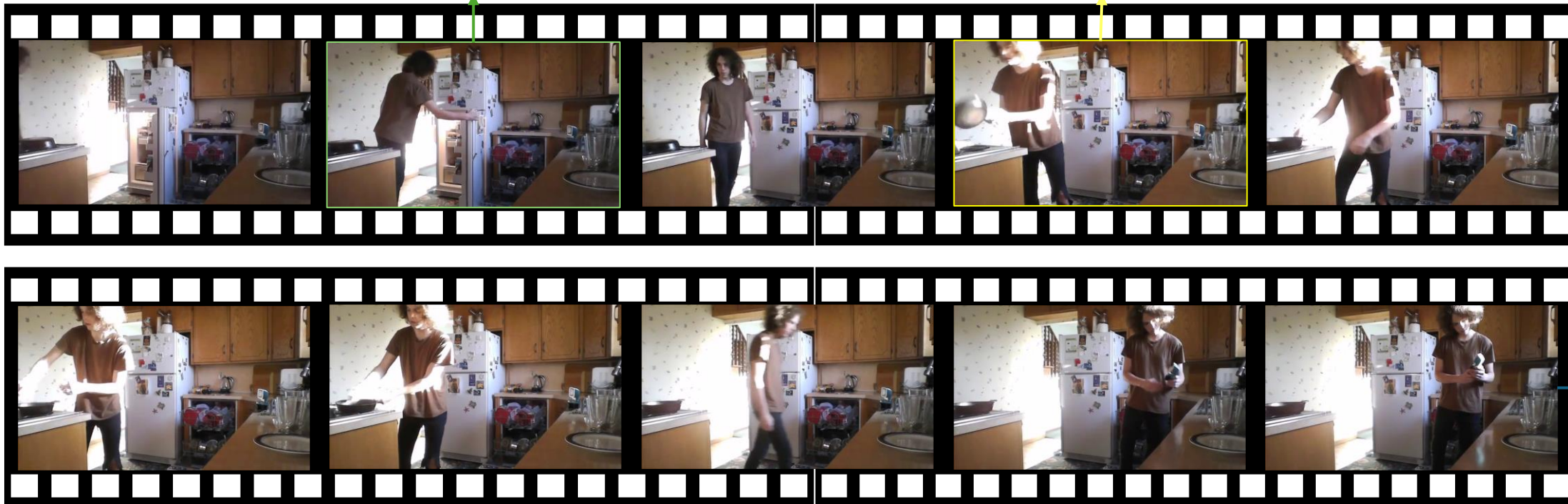
Clue Time: 1:15

[ASI] Action Sequential Identification

STAR

Clue Time: 0:02

Reference Time: 0:10



Query Time: 0:27/End of the video
 Question: What happened before the person took the pot?
 Options: **A. close the refrigerator.**; B. Unable to answer.;
 C. Took the box.; D. Throw the broom.; E. Open the book.

Reference Time: 0:10

Clue Time: 0:02



Query Time: 11:46/End of the video
 Question: What does the person do after cover up and cook for 6 to 8 minutes?
 Options: A. chop up the tomatoes.; B. chop up oleander.;
C. add more garam masala powder.; D. add cloves to the pot

YouCook2

Clue Time: 0:02

Reference Time: 0:10



Query Time: 9:03/End of the video
 Question: What does the person do before roughly chop garlic and peppers and add them to the bowl?
 Options: A. pour some olive oil on the kabob.; **B. pour olive oil on shrimp.**;
 C. cut up some onions and peppers into squares.; D. skewer the vegetables and shrimps

[ASI] Action Sequential Identification

CrossTask

Clue Time: 6:40

Reference Time: 5:00



Query Time: 9:34/End of the video
 Question: What does the person do after add spices?
 Options: **A. pack cucumbers in jar.**; B. add sugar.;
 C. pour water.; D. add salt

HiREST

Reference Time: 3:38

Clue Time: 5:00

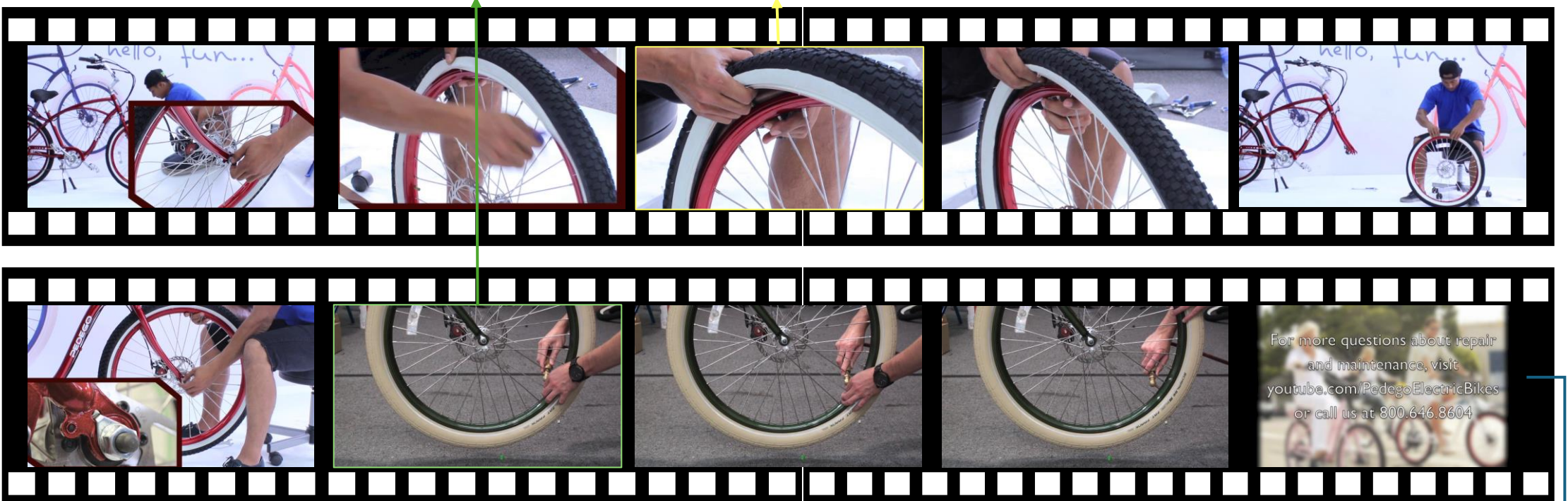


Query Time: 5:54/End of the video
 Question: What does the person do after attach pebble piece?
 Options: A. attach background piece.; B. merge them.
C. sew the edges.; D. cut the fabric

COIN

Clue Time: 3:00

Reference Time: 1:48



Query Time: 3:50/End of the video
 Question: What does the person do after load the wheel?
 Options: **A. pump up the tire.**; B. upload the wheel.;
 C. load the tire.; D. load the inner tube

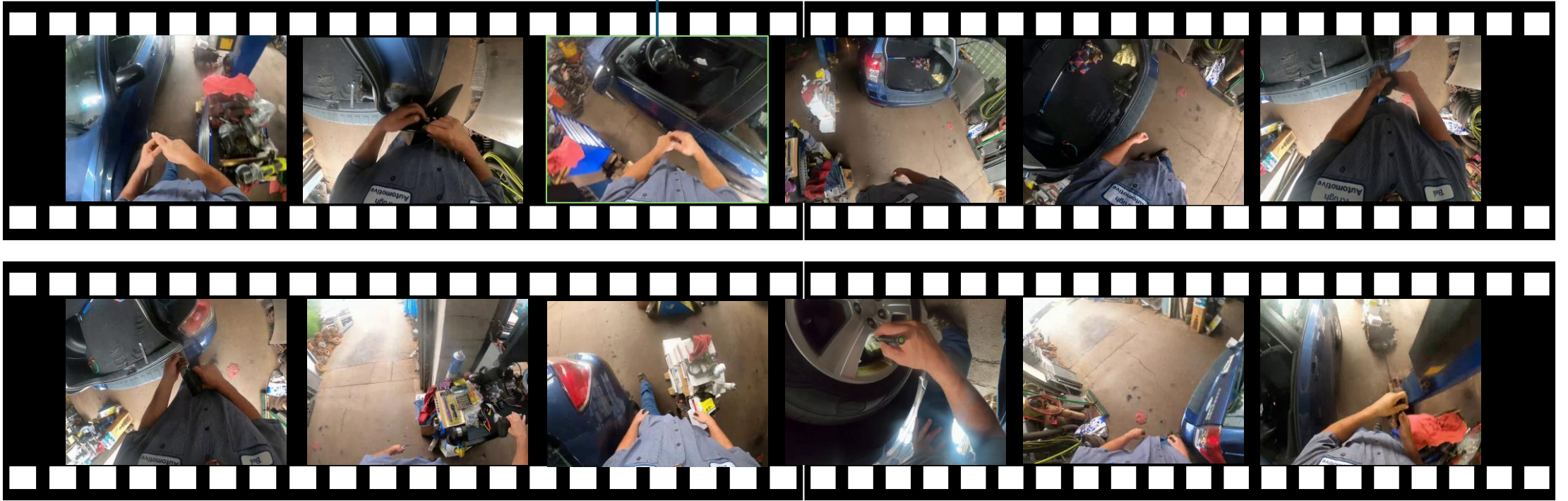
[STU] Spatial Understanding

Ego4D

Query Time/Clue Time: 1:27

Question: What is the relative position of the person to the car ?

- Options: A. The person is standing at the front of the car.;
B. The person is on the co-pilot side of the car.;
C. The person is standing beside the driver's side of the car ;
D. The person is behind the trunk of the car.



YouTube

Query Time/Clue Time: 1:47

Question: Which container is located closer to the top left corner of the table?

- Options: A. The blue container;
B. The white container;
C. The red container;
D. The green container.

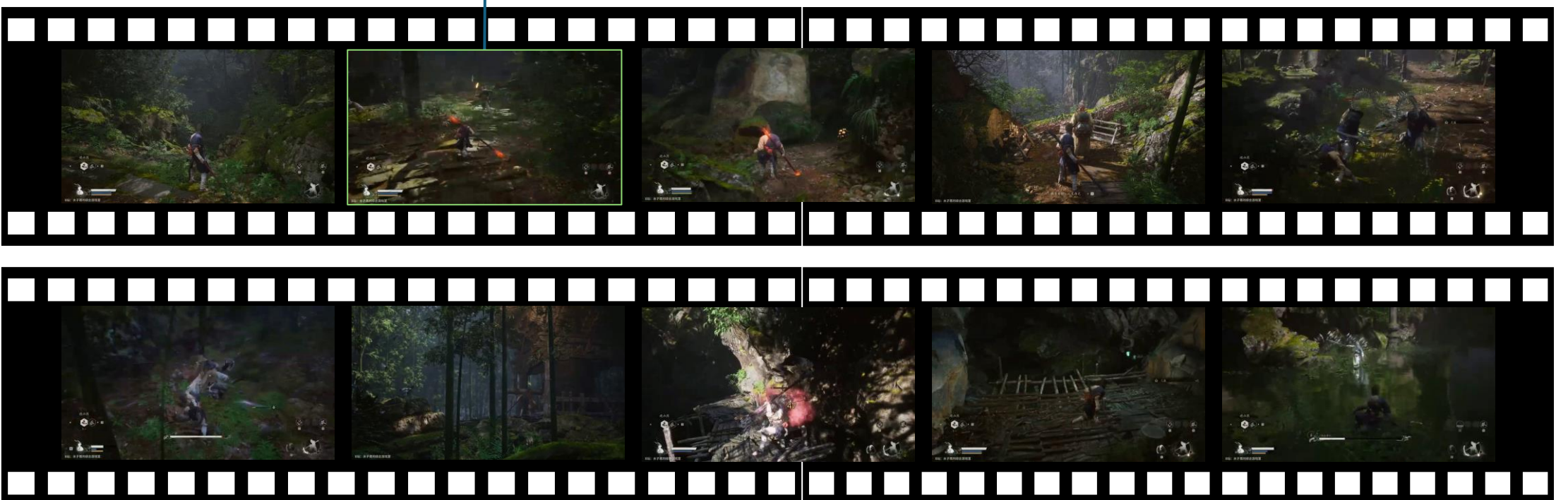


YouTube-Human Annotated

Query Time/Clue Time: 0:12

Question: Which road did I take?

- Options: **A. The road on the right;**
B. The road on the left;
C. Unable to answer.



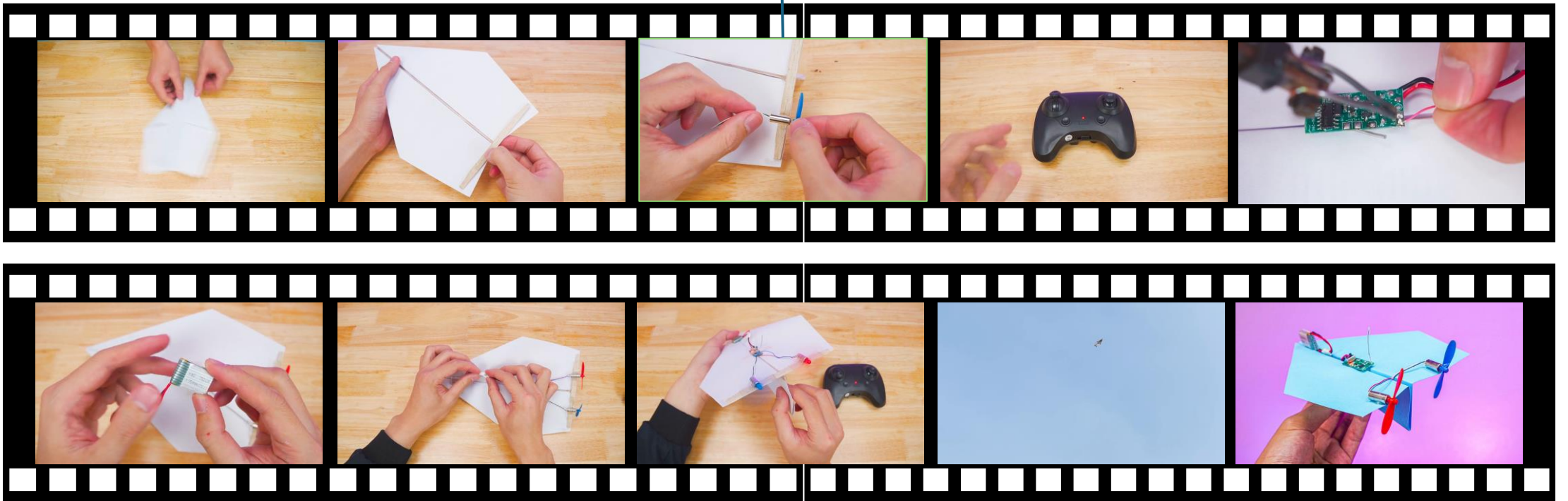
[OJR] Object Recognition

Ego4D

Query Time/Clue Time: 2:08

Question: What object is being used to construct the paper aircraft wing?

- Options: A. A plastic frame.;
B. A wooden stick.;
C. A paper sheet;
D. A metal rod.

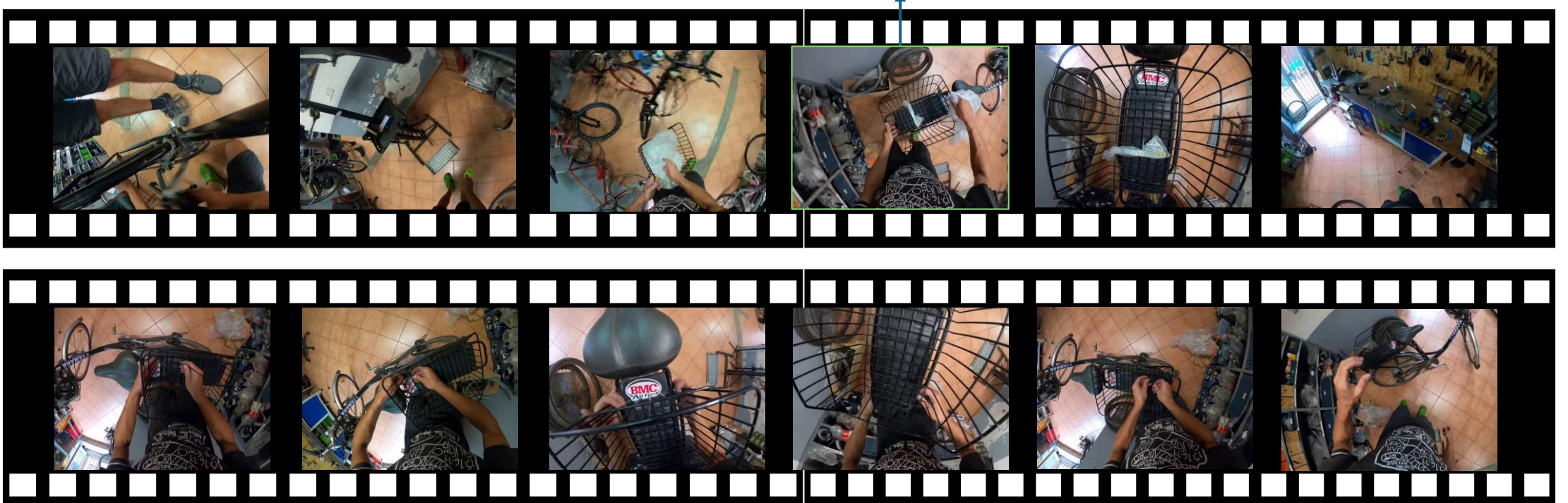


YouTube

Query Time/Clue Time: 1:27

Question: What object is being attached to the back of it?

- Options: A. A bag.;
B. A saddlebag.;
C. A basket;
D. A pannier.

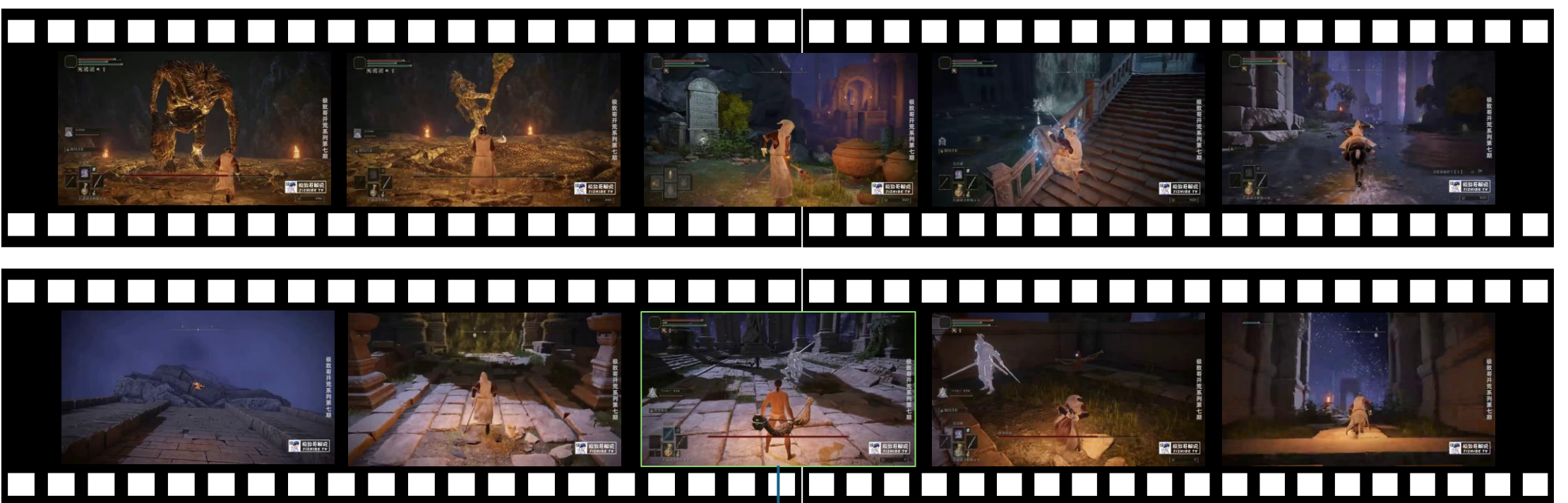


YouTube-Human Annotated

Query Time/Clue Time: 4:28

Question: What weapon do I have in my hand?

- Options: **A. Bow;** B. Sword;
C. Unable to answer.
D. Axe. E. Spear



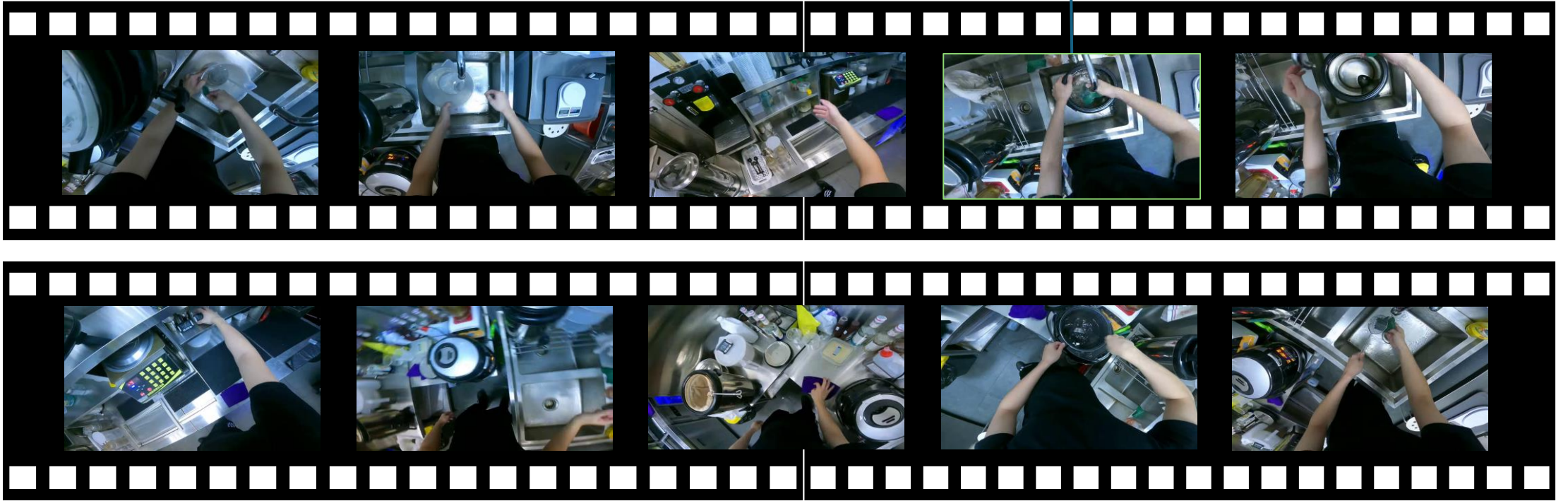
[ATR] Attribute Recognition

Ego4D

Query Time/Clue Time: 1:33

Question: What is the material of the object being cleaned?

- Options: A. Plastic;
B. Metal;
C. Wood ;
D. Glass.



YouTube

Query Time/Clue Time: 1:47

Question: What is notable about the man's tie ?

- Options: A. The man's tie is yellow and textured.;
B. The man's tie has a geometric pattern.;
C. The man's tie is purple and striped;
D. The man's tie features cartoon characters.



YouTube-Human Annotated

Query Time/Clue Time: 9:20

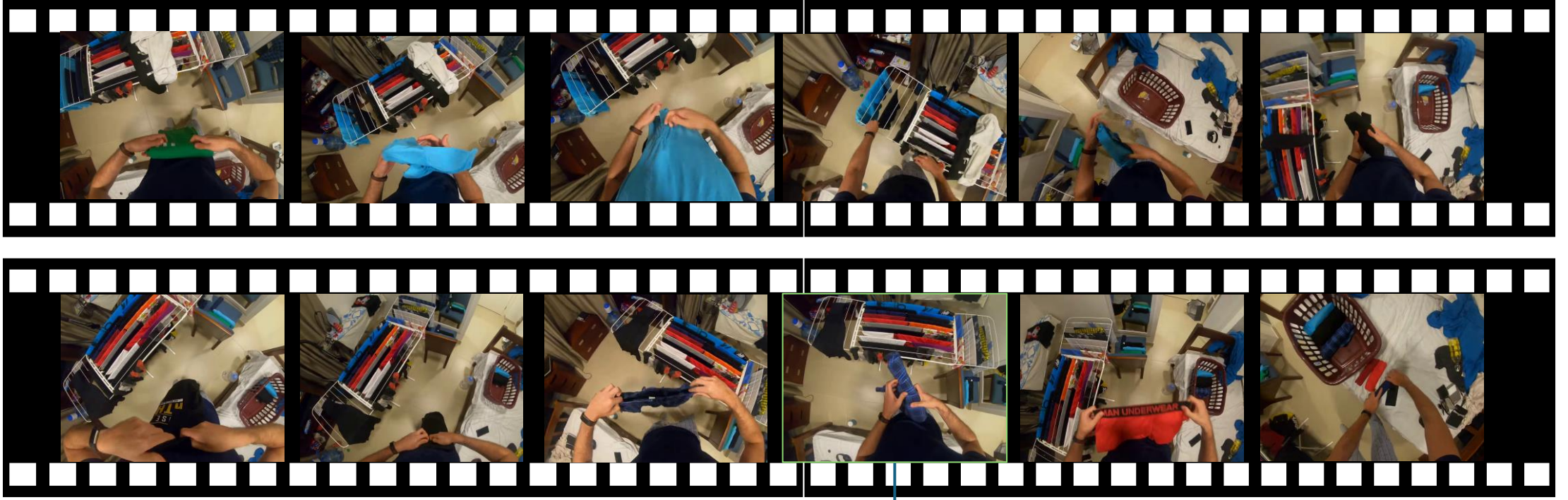
Question: What is the color of the monsters' clothes?

- Options: A. Red; B. Blue;
C. Yellow. D. Green



[ACR] Action Recognition

Ego4D



Query Time/Clue Time: 4:18

Question: What action is he performing with the blue checkered cloth?

Options: A. He is wiping the tabletop with the cloth.;

B. He is folding the cloth.;

C. He is covering a basket with the cloth;

D. He is tying the cloth around his neck.

Query Time/Clue Time: 1:03

Question: What is he doing?

Options: A. He is playing a musical instrument.;

B. He is taking off his clothes.;

C. He is taking a shower;

D. He is answering the phone.



YouTube



Query Time/Clue Time: 2:37

Question: What is she doing with the chicken in her hands?

Options: A. She is placing the chicken into a pot of water.;

B. She is putting the chicken down.;

C. She is holding the chicken while preparing to cook it.;

D. She is cutting the chicken into smaller pieces..



[OCR] Optical Character Recognition



Query Time/Clue Time: 2:16
Question: What is the leading player's time at the 150m mark?
Options: **A. 1:16.96** B. 1:15.89;
C. 1:14.32. D. 1:19.01

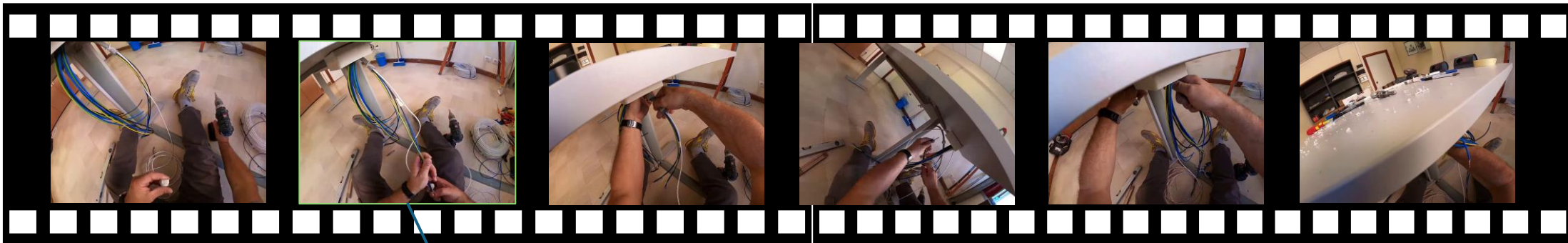
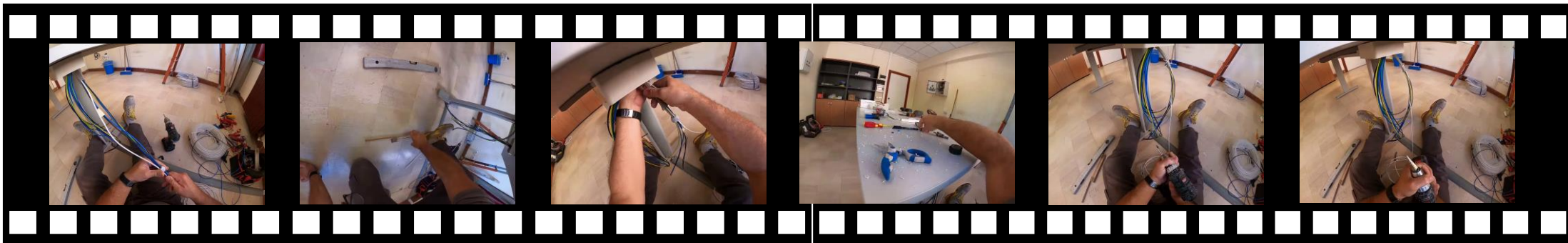
Query Time/Clue Time: 0:23
Question: What is the text on the package?
Options: **A. ANDOUILLE;**
B. THICK CUT HAM.;
C. THICK CUT PORK;
D. THICK CUT BACON.

Query Time/Clue Time: 1:35
Question: What is the text on the package?
Options: A. ANDOUILLE.;
B. THICK CUT HAM.;
C. THICK CUT PORK;
D. THICK CUT BACON.



Query Time/Clue Time: 10:12
Question: What text is displayed now?
Options: A. Milk Bucket.;
B. Butter;
C. Peanut Butter Cup.;
D. Peppermint Swirl.

[FPD] Future Prediction



Query Time/Clue Time: 1:45

Question: What is the person preparing to manipulate?

- Options: **A. The person is about to handle or manipulate the wire;**
B. The person is about to handle or manipulate the plastic tubing;
C. The person is about to handle or manipulate the circuit board;
D. The person is about to handle or manipulate the metal sheet

Query Time/Clue Time: 0:59

Question: What action is this person preparing to take ?

- Options: **A. The person is about to turn on the faucet;**
B. The person is preparing to start the car engine;
C. The person is about to open the refrigerator door;
D. The person is reaching for the light switch.



Query Time/Clue Time: 0:59

Question: What is this person about to do?

- Options: A. The person is about to press a button.;
B. The person is about to grab a book;
C. The person is about to open the drawer;
D. The person is about to adjust the lamp.



[REC] Repetition Event Count

Thumos 14/15

Query Time:0.26/1.53/End of the video
 Question: How many times did they clean and jerk?
 Answers: 1/2/2



Clue Time: 0:01-0.26

Clue Time: 0:27-1.53

Clue Time: 0:00-0.06

Clue Time: 0:07-0.14



Clue Time: 0:17-0.24

Query Time:0.06/0.14/0.24/0.34/End of the video
 Question: How many times did they showing something to the camera?
 Answers: 1/2/3/4/4

Clue Time: 0:25-0.34

Perception Test

Clue Time: 0:11-0.13

Clue Time: 0:13-0.14



Clue Time: 0:14-0.15

Clue Time: 0:15-0.17

Query Time:0.06/0.13/0.14/0.15/0.17/0.27/End of the video
 Question: How many times did they take something out of something?
 Answers: 0/1/2/3/4/4/4

[SSR] Sequential Steps Recognition

Clue Time: 0:25-0:30

Pull up the hair to reserve place for the hair extensions

Clue Time: 0:31-0:49

put on the hair extensions



Query Time: Start Of the Video

Question: Illustrate me on how to put on hair extensions according to the video

Clue Time: 1:47-1:57

Put down the hair and comb

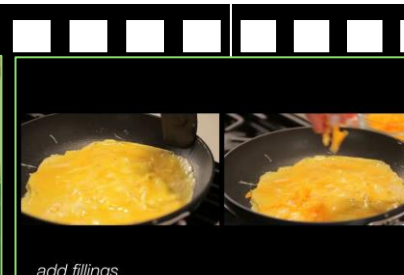
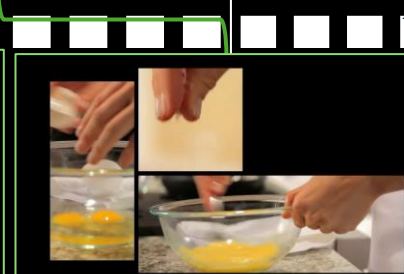
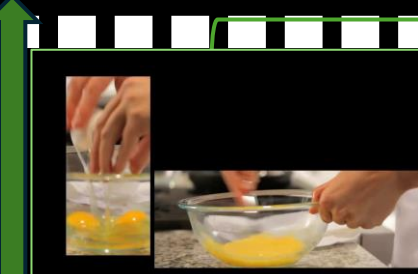
COIN

Clue Time: 0:41-0:49

Pour the egg into the bowl

Clue Time: 1:07-1:11

Pour the egg into the pot



Query Time: Start Of the Video

Question: Illustrate me on how to cook omelet according to the video

Clue Time: 1:12-1:33

Fry eggs

Clue Time: 1:42-1:52

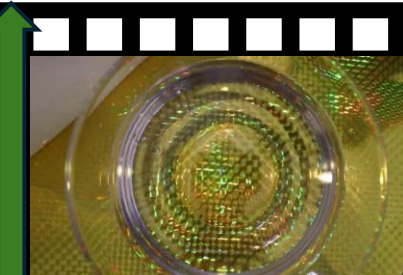
Pour the egg onto the plate

Clue Time: 0:44-1:07

String the fruit together

Clue Time: 1:41-1:46

Melt the sugar



Query Time: Start Of the Video

Question: Illustrate me on how to make sugar coated haws according to the video

Clue Time: 1:51-2:11

Soak sugar gourd in sugar

[CRR] Clues Reveal Responding

Query Time: 2:25

Question: Women came out of doors of different colors and went into the center door. What is the purpose of doing so?

Clue Time: 3:25

Answer: To listen to the older woman talking



Query Time: 2:25

Question: The man picked up several books from the ground. What does the man do with the books he picked up?

Clue Time: 3:25

Answer: He handed these books to the woman



Query Time: 4:02

Question: A policeman is driving the car away, what is his destination

Clue Time: 5:15

Answer: A residential house with a woman inside.



Query Time: 10:19

Question: The policeman is stepping into a wooden house, what does the police see?

Clue Time: 10:26

Answer: A black man sitting on a bench.



Query Time: 3:23

Question: The woman with the gray dress is stepping into the room, what does she do in the room?

Clue Time: 3:27

Answer: She talks to the man



Query Time: 8:07

Question: The couple are sitting on their trunks, who do they meet then

Clue Time: 8:28

Answer: A group of friends

