

Shirt Protocol

Overall task summary

The purpose of this task is to put **polo shirts** onto a hanger and then hang it on a clothing rack. **We use different color polo shirts** and the same type of hanger. Both objects should always start from the same position, with the shirt on the table and the hanger starting from the rack. The shirt should be hung on the same position on the clothing rack every time.

We want to settle on the strategy of hanging the t-shirt on the hanger while it is lifted in the air, not while it is on the table. Both of the buttons on the shirt should be undone.

- Resetting the scene: <https://www.youtube.com/watch?v=vZaclu0R3Zk>
- Hanging the shirt: <https://www.youtube.com/watch?v=guk1of2-2ZE>

We want a very specific strategy for getting the shirt onto the hanger, so that all the steps are always consistent and in order. Please see the video which demonstrates this.

1. Flatten the shirt on the table. **Please see how Tony does it in the video above.**
2. Pick up the hanger with the right arm.
3. Hand off the hanger to the left arm.
4. Pick up the shirt with the right arm.
5. Slide the right side of the hanger into the shirt on the right side.
6. Slide the left side of the shirt onto the left side of the hanger.
7. Use the right arm to hang the shirt/hanger back on the rack.

Getting Started

Supplies

- Black / Blue/ Red / Light Blue / White polo shirts kids size
 - https://www.amazon.com/dp/B09PNRXQ8L?psc=1&ref=ppx_yo2ov_dt_b_product_details
- Plastic hanger small size
 - <https://www.target.com/p/18pk-kids-hangers-pillowfort/-/A-86040851?preselect=50350309#lnk=sametab>
- Clothing rack
 - <https://www.target.com/p/adjustable-single-rod-garment-rack-black-room-essentials-8482/-/A-51688630#lnk=sametab>

Resetting the scene

The shirt should be initialized randomly in a crumpled position

- **First, re-orient the t-shirt randomly. Could be facing any direction**
- **Then put your palm on the t-shirt and shake it till it crumbles up. Then move it to any place on the table.**
- **Flatten the shirt so it gets close to the starting position of tshirt-easy, before beginning the hanging task.**

The hanger should always start on the clothing rack at the center of the rack. Both of the buttons on the shirt should be undone. Please switch shirt colors every ~15 minutes so that we have roughly equal amounts of all the shirt colors.

These are valid start scenes





Step by Step Instructions

1. Set up the scene with the shirt crumpled
2. Flatten the shirt so that it's straight and neater on the table.
3. Pick up the hanger off the rack with the right arm.
4. Hand off the hanger to the left arm.
5. Pick up the shirt with the right arm.
6. Put the shirt on the hanger while it is lifted off the table.
7. Slide the right side of the hanger into the shirt on the right side.
8. Make sure to have firm grasp of hanger+right side of shirt.
9. Slide the left side of the shirt onto the left side of the hanger.
10. Once the shirt is on the hanger, use the right arm to put the hanger/shirt combo onto the clothing rack towards the middle of the pole.
11. Complete the episode and save the data by pressing the right foot pedal.
12. If you make small mistakes along the way, don't worry about it and continue the episode. However, If you mess up too badly and want to throw away the current episode, you can press the left-most foot pedal.
13. Reset the scene.
14. Repeat.

FAQs

- If you drop the hanger more than 3 times, then restart the episode.

- As long as the shirt is on the hanger and won't fall off, don't worry too much about adjusting the shirt on the hanger so that it's perfectly straight -- you can proceed to hang it on the rack