

Incorrect Change Subtask: User Walkthrough

1. Launching the Task

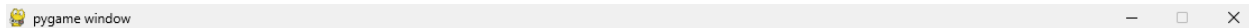
1.1 Running the Program

- Command: `python3 IncorrectChange_Subtask.py`

2. Payment Phase

2.1 Payment Area

- Drag the \$5 bill into this area to pay for the item, which has a default price of \$1.25



Drag the \$5 bill into the payment area



3. Reviewing Change

3.1 Change Box

- Displays the returned change in bills and coins.

3.2 Interaction

- Visually review to confirm if the change is correct



4. Buttons & Controls

4.1 Yes Button

- Green, labeled **Yes**
- Action: Confirms change is correct.

4.2 No Button

- Red, labeled **No**
- Action: Indicates the provided change is incorrect.

4.3 Give Up Button

- Red, labeled **Give Up**
- Action: Ends task immediately.

4.4 Screenshot

Give Up

Is this the correct change?

Yes

No

5. Guessing Mode (When Provided Change is Incorrect)

5.1 When Activated

- After clicking "No" on the incorrect change, a prompt appears.

5.2 Guessing Box & Submit Button

- A textbox appears for entering the correct change.
- Click "Submit" to confirm entry.

5.3 Interaction

- Type a numeric guess and click "Submit."

5.4 Give Up in Guessing Mode

- "Give Up" button remains available to end the task.

5.5 Screenshots & Placement

Yes - Enter the correct change and submit

Submit

6. Timed Assistance Cues

Messages appear when the user is inactive

6.1 Supportive Cue (≈ 5 s idle)

- Banner: “**You Got This!**”



6.2 Directive Cue (≈ 8 s idle)

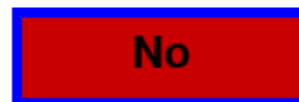
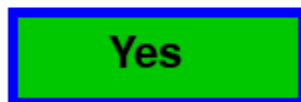
- Banner: “**Click YES if the change is correct and NO otherwise.**”



6.3 Gestural Cue (≈ 11 s idle)

- Both **Yes** and **No** buttons are highlighted in blue.

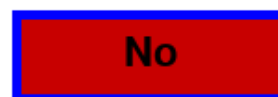
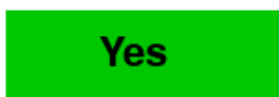
Is this the correct change?



6.4 Correct Button Highlight (≈ 14 s idle)

- Only the correct button is highlighted in blue.

Is this the correct change?



7. Ending the Task

D7.1 Automatic Ending

- After a correct guess or "Yes" click.

7.2 Manual Ending

- Clicking "Give Up" at any time.

7.3 Data Logged

- Duration, Errors, Independence Score, Quality Score, Process Score, Success Flag

7.4 Screenshot'

```
{'subtask_id': 'Incorrect Change', 'start_time': 1750292834.1247222,
'end_time': 1750293040.5237448, 'duration_sec': 206.4, 'errors': 0,
'independence_score': 8, 'quality_score': 0, 'process_score': 0, 'success': False}
```

8. Tips & Troubleshooting


- **Unable to type in the textbox?**
 - Ensure the textbox is active by clicking inside it.
- **Buttons not responding?**
 - Confirm click location and retry.
- **Customizing UI**
 - Edit placement coordinates in code: `pygame.Rect(x, y, w, h)`.

Regular Mode

pygame window

You paid \$5.00 for an item that costed \$1.25

Change Received



Give Up

Is this the correct change?

Yes No

Guessing Mode

pygame window

You paid \$5.00 for an item that costed \$1.25

Change Received

Yes - Enter the correct change and submit

Submit

Give Up

Is this the correct change?

Yes No