

# Turing Tumble Evaluation (Unmonitored)

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If you have any further questions about the experiment, please feel free to contact

Luke Gall, Application Developer

[2298070g@student.gla.ac.uk](mailto:2298070g@student.gla.ac.uk)

Alice Miller, Project Supervisor

[Alice.Miller@glasgow.ac.uk](mailto:Alice.Miller@glasgow.ac.uk)

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## Ethical Consent \*

- ☒ I have read the Ethics breif above and agree to voluntarily take part
- ☐ I do not agree and will not take part in this experiment

## Task 1

These questions are related to the first task on the task sheet provided

Did you complete this task? \*

☒ Yes

☐ No

Have you heard of a Turing Tumble before this experiment? \*

☐ Yes

☒ No

How easy was it to select and place pieces onto the board? \*

	1	2	3	4	5	
Very difficult	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	Very easy

Can you suggest any improvements to placing pieces on the board?

A fake "ghost piece" that follows the cursor to make it slightly more clear which piece is currently selected.

How easy was it to understand when a marble 'fell' based on the icon? \*

	1	2	3	4	5	
Very difficult	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	Very easy

How easy was it to change the direction of a piece that was on the board? \*

Very difficult      1      2      3      4      5      Very easy

☐      ☐      ☐      ☐      ☒

Was it clear how many marbles had been collected at the bottom of the board? \*

- ☒ Yes
- ☐ Somewhat clear
- ☐ No

Do you have any suggestions to improve the experience of the previous task?

A more gradual interactive tutorial would have helped me to understand how everything worked a bit quicker.

## Task 2

These questions are related to Task 2

Did you complete this task? \*

- ☒ Yes
- ☐ No

Has this task helped you understand the concept of bits and registers better? \*

- ☐ Yes
- ☐ Somewhat yes
- ☒ No

How easy are the piece icons to uniquely identify? \*

	1	2	3	4	5	
Very difficult	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	Very easy

How easy was it to understand the different playback options available? \*

	1	2	3	4	5	
Very difficult	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	Very easy

Do you have any suggestions to improve the playback features?

No, playback features were solid

Do you have any suggestions to improve the ease of understanding the different pieces?

See prev suggestion of interactive tutorial.

### Task 3

The questions related to Task 3

Did you complete this task? \*

☒ Yes

☐ No

How clear was the puzzle list? \*

	1	2	3	4	5	
Difficult to understand	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	Very clear

Was the information provided relevant in choosing a puzzle? \*

	1	2	3	4	5	
Not useful information	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	Very useful details

How useful was the difficulty filter? \*

	1	2	3	4	5	
Not useful at all	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	Very useful

Would you suggest any other types of filters or search features?

Filter by starting pieces - e.g. I want to see puzzles that include ramps in the starting set.

Filter by allowed pieces to use - e.g. I want to be able to use gears to complete this puzzle.

How clear was it that some pieces couldn't be changed or deleted? \*

	1	2	3	4	5	
Not clear at all	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	Very clear

How clear was it that you only had a certain number of pieces to complete the puzzle? \*

	1	2	3	4	5	
Not clear at all	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	Very clear

Do you think these puzzles could assist in learning the Turing Tumble? \*

- ☒ Yes
- ☐ No
- ☐ Maybe

#### Task 4 (extra)

Please only fill in this section if you have logged in anonymously to the site

Did you complete this task? \*

- ☒ Yes
- ☐ No

How clear was the create starting set up phase?

	1	2	3	4	5	
Not clear at all	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	Very clear

Was it easy to come up with a puzzle by thinking of the solution?

	1	2	3	4	5	
Not easy at all	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Very easy

Can you suggest a different way of creating a puzzle?

No

Would you want to add any more descriptive attributes to your puzzle?

No

Any more suggestions to add?

A way to clear dropped marbles and change pieces before confirming output would be nice, as I made a mistake when creating the puzzle.

## Ethics Debrief

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## Task 1

These questions are related to the first task on the task sheet provided

Did you complete this task? \*

☒ Yes

☐ No

Have you heard of a Turing Tumble before this experiment? \*

☐ Yes

☒ No

How easy was it to select and place pieces onto the board? \*

	1	2	3	4	5	
Very difficult	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	Very easy

Can you suggest any improvements to placing pieces on the board?

drag and drop feature

How easy was it to understand when a marble 'fell' based on the icon? \*

	1	2	3	4	5	
Very difficult	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	Very easy

How easy was it to change the direction of a piece that was on the board? \*

Very difficult      1      2      3      4      5      Very easy

☐      ☐      ☐      ☐      ☒

Was it clear how many marbles had been collected at the bottom of the board? \*

☐ Yes

☒ Somewhat clear

☐ No

Do you have any suggestions to improve the experience of the previous task?

The collected marbles were a tad small, could maybe be lightly bigger

## Task 2

These questions are related to Task 2

Did you complete this task? \*

☒ Yes

☐ No

Has this task helped you understand the concept of bits and registers better? \*

- ☐ Yes
- ☒ Somewhat yes
- ☐ No

How easy are the piece icons to uniquely identify? \*

- |                | 1                     | 2                     | 3                     | 4                     | 5                                |           |
|----------------|-----------------------|-----------------------|-----------------------|-----------------------|----------------------------------|-----------|
| Very difficult | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | Very easy |

How easy was it to understand the different playback options available? \*

- |                | 1                     | 2                     | 3                     | 4                                | 5                     |           |
|----------------|-----------------------|-----------------------|-----------------------|----------------------------------|-----------------------|-----------|
| Very difficult | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | Very easy |

Do you have any suggestions to improve the playback features?

possibly change the colour of the play button or give it a border to know that its playing

Do you have any suggestions to improve the ease of understanding the different pieces?

No

### Task 3

The questions related to Task 3

Did you complete this task? \*

☒ Yes

☐ No

How clear was the puzzle list? \*

	1	2	3	4	5	
Difficult to understand	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	Very clear

Was the information provided relevant in choosing a puzzle? \*

	1	2	3	4	5	
Not useful information	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	Very useful details

How useful was the difficulty filter? \*

	1	2	3	4	5	
Not useful at all	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	Very useful

Would you suggest any other types of filters or search features?

Include a search for the name of the challenge

How clear was it that some pieces couldn't be changed or deleted? \*

	1	2	3	4	5	
Not clear at all	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	Very clear

How clear was it that you only had a certain number of pieces to complete the puzzle? \*

	1	2	3	4	5	
Not clear at all	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	Very clear

Do you think these puzzles could assist in learning the Turing Tumble? \*

- ☒ Yes
- ☐ No
- ☐ Maybe

#### Task 4 (extra)

Please only fill in this section if you have logged in anonymously to the site

Did you complete this task? \*

- ☒ Yes
- ☐ No

How clear was the create starting set up phase?

	1	2	3	4	5	
Not clear at all	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	Very clear

Was it easy to come up with a puzzle by thinking of the solution?

	1	2	3	4	5	
Not easy at all	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Very easy

Can you suggest a different way of creating a puzzle?

Start with a solution and then remove what you want the user to add to it to then achieve the solution

Would you want to add any more descriptive attributes to your puzzle?

Not really

Any more suggestions to add?

possibly a hint to the solution of a challenge

## Ethics Debrief

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## Task 1

These questions are related to the first task on the task sheet provided

Did you complete this task? \*

☒ Yes

☐ No

Have you heard of a Turing Tumble before this experiment? \*

☐ Yes

☒ No

How easy was it to select and place pieces onto the board? \*

	1	2	3	4	5	
Very difficult	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	Very easy

Can you suggest any improvements to placing pieces on the board?

no

How easy was it to understand when a marble 'fell' based on the icon? \*

	1	2	3	4	5	
Very difficult	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	Very easy

How easy was it to change the direction of a piece that was on the board? \*

	1	2	3	4	5	
Very difficult	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	Very easy

Was it clear how many marbles had been collected at the bottom of the board? \*

- ☒ Yes
- ☐ Somewhat clear
- ☐ No

Do you have any suggestions to improve the experience of the previous task?

Only improvement would be to give a hint that orientation of pieces can be changed by clicking.

## Task 2

These questions are related to Task 2

Did you complete this task? \*

- ☒ Yes
- ☐ No

Has this task helped you understand the concept of bits and registers better? \*

- ☒ Yes
- ☐ Somewhat yes
- ☐ No

How easy are the piece icons to uniquely identify? \*

	1	2	3	4	5	
Very difficult	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	Very easy

How easy was it to understand the different playback options available? \*

	1	2	3	4	5	
Very difficult	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Very easy

Do you have any suggestions to improve the playback features?

no

Do you have any suggestions to improve the ease of understanding the different pieces?

no

### Task 3

The questions related to Task 3

Did you complete this task? \*

☒ Yes

☐ No

How clear was the puzzle list? \*

	1	2	3	4	5	
Difficult to understand	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	Very clear

Was the information provided relevant in choosing a puzzle? \*

	1	2	3	4	5	
Not useful information	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	Very useful details

How useful was the difficulty filter? \*

	1	2	3	4	5	
Not useful at all	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	Very useful

Would you suggest any other types of filters or search features?

Perhaps average time/estimated time to complete, able to search for the name of the puzzle?

How clear was it that some pieces couldn't be changed or deleted? \*

	1	2	3	4	5	
Not clear at all	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	Very clear

How clear was it that you only had a certain number of pieces to complete the puzzle? \*

	1	2	3	4	5	
Not clear at all	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	Very clear

Do you think these puzzles could assist in learning the Turing Tumble? \*

- ☒ Yes
- ☐ No
- ☐ Maybe

#### Task 4 (extra)

Please only fill in this section if you have logged in anonymously to the site

Did you complete this task? \*

- ☐ Yes
- ☒ No

How clear was the create starting set up phase?

	1	2	3	4	5	
Not clear at all	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	Very clear

Was it easy to come up with a puzzle by thinking of the solution?

	1	2	3	4	5	
Not easy at all	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	Very easy

Can you suggest a different way of creating a puzzle?

No

Would you want to add any more descriptive attributes to your puzzle?

No

Any more suggestions to add?

No

## Ethics Debrief

As given in the ethics brief, the main aim of this experiment was to test the usability of the Virtual Turing Tumble web application. I was particularly interested in how easy it was to use the site after just reading the tutorial and if there was any major confusion in how to use the Turing Tumble board.

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## Task 1

These questions are related to the first task on the task sheet provided

Did you complete this task? \*

☒ Yes

☐ No

Have you heard of a Turing Tumble before this experiment? \*

☐ Yes

☒ No

How easy was it to select and place pieces onto the board? \*

	1	2	3	4	5	
Very difficult	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	Very easy

Can you suggest any improvements to placing pieces on the board?

use a drag and drop - although maybe make it an option because some people dont like it

How easy was it to understand when a marble 'fell' based on the icon? \*

	1	2	3	4	5	
Very difficult	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Very easy

How easy was it to change the direction of a piece that was on the board? \*

	1	2	3	4	5	
Very difficult	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	Very easy

Was it clear how many marbles had been collected at the bottom of the board? \*

☐ Yes

☒ Somewhat clear

☐ No

Do you have any suggestions to improve the experience of the previous task?

Could have an animation of the ball dropping out of the picture as it just disappearing was confusing at first. Or just make it something less subtle

## Task 2

These questions are related to Task 2

Did you complete this task? \*

☒ Yes

☐ No

Has this task helped you understand the concept of bits and registers better? \*

- ☒ Yes
- ☐ Somewhat yes
- ☐ No

How easy are the piece icons to uniquely identify? \*

	1	2	3	4	5	
Very difficult	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	Very easy

How easy was it to understand the different playback options available? \*

	1	2	3	4	5	
Very difficult	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	Very easy

Do you have any suggestions to improve the playback features?

No

Do you have any suggestions to improve the ease of understanding the different pieces?

No - the use of graphics & text was very helpful

### Task 3

The questions related to Task 3

Did you complete this task? \*

☒ Yes

☐ No

How clear was the puzzle list? \*

	1	2	3	4	5	
Difficult to understand	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	Very clear

Was the information provided relevant in choosing a puzzle? \*

	1	2	3	4	5	
Not useful information	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	Very useful details

How useful was the difficulty filter? \*

	1	2	3	4	5	
Not useful at all	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	Very useful

Would you suggest any other types of filters or search features?

It only shows you 5 puzzles on the page at the time. It would be useful to be able to scroll through all of them, because without being told to filter, I wouldn't have known there was more than 5 games. Or make the arrows at the bottom of the page bigger because i didnt notice them until later.

How clear was it that some pieces couldn't be changed or deleted? \*

	1	2	3	4	5	
Not clear at all	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Very clear

How clear was it that you only had a certain number of pieces to complete the puzzle? \*

	1	2	3	4	5	
Not clear at all	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	Very clear

Do you think these puzzles could assist in learning the Turing Tumble? \*

- ☒ Yes
- ☐ No
- ☐ Maybe

#### Task 4 (extra)

Please only fill in this section if you have logged in anonymously to the site

Did you complete this task? \*

- ☐ Yes
- ☒ No

How clear was the create starting set up phase?

	1	2	3	4	5	
Not clear at all	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Very clear

Was it easy to come up with a puzzle by thinking of the solution?

	1	2	3	4	5	
Not easy at all	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Very easy

Can you suggest a different way of creating a puzzle?

---

Would you want to add any more descriptive attributes to your puzzle?

---

Any more suggestions to add?

I think it is cool you can make your own puzzles. maybe puzzles made by other contributors besides yourself could have their own separate tab as they may not be entirely correct

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