Online Perception Experiments

How to link an experiment to MTurk

Na-Young Ryu University of Toronto July 11, 2018

MTurk configuration

Real environment

- Requester https://requester.mturk.com/
- Worker

https://worker.mturk.com/

Sandbox (Test environment)

 Requester https://requestersandbox.mturk.com/

• Worker

https://workersandbox.mturk.com

The Mechanical Turk Developer Sandbox is a simulated environment that lets you test your applications and Human Intelligence Tasks (HITs) prior to publication in the marketplace.

Free to use for registered Mechanical Turk requesters. Fees will not be withdrawn and payments are not made to Worker accounts. ²

Overall procedure



Please refer to the following pdf file for setting up accounts



- Download a file from webserver using Filezilla /Users/username/Sites/sample/exp1_hard.html
- 2. Rename the file on your computer exp1_hard.html -> exp1_hard_mturk.html
- 3. Open the file, exp1_hard_mturk.html, using Atom editor

4. Insert a survey code generator function between"Thank you message" function and "time stamp" function

5. Modify "thank you message" function

6. Call the survey code generator function in jsPsych.init

```
< Survey code generator >
```

```
// Survey code generator
function makecode() {
  var text = "";
  var possible = "ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789";
  for (var i = 0; i < 10; i++)
     text += possible.charAt(Math.floor(Math.random() * possible.length));
  return text;
```

```
< Modify "thank you message" function >
```

```
//Thank you message
```

```
function finish(surveycode) {
```

```
DOM_target = document.querySelector('#jspsych-content');
```

DOM_target.innerHTML ='Thank you for participating' +

'in this experiment ' +

'Your survey code: ' + surveycode +

'';

jsPsych.pluginAPI.cancelAllKeyboardResponses();

```
jsPsych.pluginAPI.clearAllTimeouts();
```

};

※ Red color code should be added

< Call the survey code generator function in jsPsych.init >

jsPsych.init({

```
timeline: [instruction_trial, question_trial],
```

show_progress_bar: true,

```
on_finish: function(data) {
```

```
surveycode = 'mturk_' + makecode();
```

```
data = jsPsych.data.get().filter({trial_type:'survey-multi-choice'}).
```

```
ignore('trial_index').ignore('time_elapsed').ignore('internal_node_id');
saveData('exp1_hard_'+stamp()+'_'+surveycode+'_result.csv', data.csv());
finish(surveycode);
```

},

});

- 7. Save the file, exp1_hard_mturk.html on Atom editor
- 8. Upload the file to your folder in Web server using Filezilla (ex, /Users/phonlab/Sites/sample/)
- 9. Access the file in your bowser and test the experiment (http://142.1.108.117/~phonlab/sample/exp1_hard_mturk.html)

< Test images>



The same as exp1_hard.html

The same as exp1_hard.html

< Test images>

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Completion Progress	
Thank you for participatingin this experiment	
Your survey code: mturk_MeZY99ks55	

- Unique survey code is displayed
- Survey code is "mturk_MeZY99ksS5"

Host	Usernames		Password:	Port	Quickconnect	-			
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second.jpg	377,913	JPG File	7/6/2018 3:00:38 PM						
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ispsych.jpg	101,334	JPG File	7/5/2018 9:32:56 PM						
surveycode.jpg	66,268	JPG File	7/5/2018 9:20:10 PM						
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Server/Local file	Direction	Remote file	56	ze Priority Sta	tus				

- Check a result file name in the server
- The output file name is

"exp1_hard_20180706152126_mturk_MeZY99ksS5_result.csv"

※ Survey code is recorded as a part of the result file name.

- 1. Login https://requestersandbox.mturk.com/
- 2. Create HIT (Human Intelligence Task)





- Landing page
- Click "requester"

- Login window
- Provide ID and Password



- Login successfully
- Click "Create"



- "Survey Link" highlighted on left side
- Click "Create Project"



- Provide Project Name, Title, Description, Keywords
- Project Name: test prj
- Title: test title
- Description: test description
- Keywords: test keywords



- Reward per assignment: 5
- No changes in other options for this test
- You can set worker's requirements
- Click "Design Layout"



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- Delete http://example.com/survey34 5.html

 Input your URL http://142.1.108.117/~phonlab/samp le/exp1_hard_mturk.html

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Employee note for Requesters - To verify that Workers actually complete your survey, require each Worker to enter a unique survey completion code to your HTL Consult with your survey are/coll provider on how to generate this code at the end of your survey. Survey link: <u>mp/142/11/00/1177/eptorteb/camp/korps1/hord emark himl</u> Provide the survey code here:	Template note the Requesters - To verify that Monets actually complete your survey, request each Worker to enter a unique survey completion code to your HTL Consult with your survey service provider on how to generate this code at this end of your survey. Survey link: Zemplate 20.01102 Typephostebiolographicitys. Part Internet hom
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e.g. 123456	Provide the survey code here:

- Hightlight URL
- Click "Link" button(



Input your URL without http:// in URL blank

142.1.108.117/~phonlab/sample/exp 1_hard_mturk.html



- Click "Target" tab



- Click dropdown list
- Select "New Window (_blank)"
- Click "OK"





- The color of URL in the survey link field is changed to BLUE
- Click "Preview" on the bottom right

- Participants(Workers) will see this page for an experiment
- Participants will click "Survey Link Instruction"
- Click "Finish" on the bottom right 19



- Click "Publish Batch"



- HIT Preview is displayed again
- Click "Next" on the bottom right

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Confirm and Publish Batch		Coultin and Higher
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test prj		
	Batch Summary	
Batch Name test prj 1	Description test description	
Batch Properties		
Title: te	lest title	
Description: 16	lest description	
Batch expires in: 7	7 Days	
Results are auto-approved and Workers are paid after: 3	3 Days	
HITS		
Number of HITs in this batch:	1	
Number of assignments per HIT:	x 20	
Total number of assignments in this batch:	20	-
Cost Summary		
	8E.00	
Reward per Assignment:	33.00	

- This page is for confirming cost and publishing batch
- Batch name is different from Project name
- Click "Publish" on the bottom right



- Everything is all set
- Check experiment status in Manage tab
- Logout

1. Logout https://requestersandbox.mturk.com/

2. Login <u>https://workersandbox.mturk.com/</u>

3. Search HIT you created

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Worker ID: A16L3K3DT636TZ				Hell	o, Hyoung S	eok Kwon Sign Out
amazon milurk Hits D	ashboard Qualifications Search All HITS				_	Q Fiter
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HIT Groups (1-20 of	4006)	C Show	Detats 😋	Hide Details	Items Pa	er Page 20 •
Requester	Tee	HITs -	Revert -	Created -		Actors
C BCVL	Choose if the given function could be preformed naturally in the image	4,995	\$0.01	4d ago	Preview	Accept & Work
S vse-mturk	Algorithm tagged videos - TimelineUI Jun-19-2018	4,988	\$0.00	17d ago	Preview	Accept & Work
D Justin Goodman	Annotate when audio source appears in video (new)	4,776	\$0.07	6h ago	Preview	Accept & Work
Deep Learning	Depal Carter data	3,870	\$0.10	5/22/2018	Preview	Accept & Work
Naoki Kobayashi	Tell us what is this food over thirty categories.	3,247	\$0.01	3/12/2018	Providey	@ Custity
D Zahra Rahimi	Pick the best photoshop image editing action for the highlighted utterance Pick the best caleg	3,066	\$0.05	14d ago	Preview	Accept & Work
Deep Learning	Locate objects in an image	2.624	\$0.10	5/15/2018	Preview	Accept & Work
O Jonah Lubin	Emotion Annotation	2,370	\$0.00	9/12/2017	Preview	Accept & Work
II vse-mturk	Algorithm tagged videos - TimelineUI Jun-23-2018	2,114	\$0.00	13d ago	Preview	Accept & Work
D Emmanuel Papirakis	What color is this item?	2,097	\$0.01	9/11/2017	Preview	Accept & Work
Deep Learning	Depal Corrections	1,959	\$0.10	5/29/2018	Preview	Accept & Work
O vse-mturk	Algorithm tagged videos - TimelineUI Jun-24-2018	1,605	\$0.00	12d ago	Preview	Accept & Work
botbotbotbot	botbotbotbot Domino's Annotation	1,503	\$0.00	16d ago	Preview	Accept & Work

- Login https://workersandbox.mturk.com/
- All HITs are listed



- Search HITs using title or key words (ex, test title)
- A HIT, test title, is displayed
- Click "test title"

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1 \$0.02 4d ago Preview Accept & Work

- Check discription
- Click "Accept&Work"



 Click "Survey link instructions (Click to expand)" for instructions



- Check description
- Click a link in Survey link field
- Do not close this tab



- New tab opens
- Experiment starts



- Once the experiment is finished, unique survey code is displayed
- Copy the red color survey code mturk_f7sHc3BnqT

- Paste the survey code in the "Provide the survey code here:" field
- Click "Submit"



- HIT submitted
- \$5 will be paid if the requester approve your work.
- Click "sign out"



Login <u>https://requestersandbox.mturk.co</u> m/

- 🔷 뉴스 홈 [연합뉴스 10 EasyWeb Login to 💦 RStudio 📙 UoT 📜 amazonmechanical turk REQUESTER Home Create Manage Developer Heir Workers Qualification Type Results Manage Batches Click on the name of the batch to see more details F Batches in progress (1) Results Cancel this batch July 09, 2018 1/20 Created: Assignments Completed Time Elapsed: 29 minutes Estimated Completion Time July 09, 2018 9:26 PM PDT (TOD/ Batch Progress: 5% submitte 100% published Batches ready for review (0) Batches already reviewed (0) Follow Us on Twitter Help Contact Us Policies State Licensing Press inquiries Blog Service Health Dashboard Careers
- Check the batch status
- Click "result"

- Click "Manage"

-



Check survey codes of participants mturk_f7sHc3BnqT

-



- Check output files in the web server using Filezilla
- Ensure that the file name contains mturk_f7sHc3BnqT
- Download the file

Α	В	C	D
rt	responses	sound	trial_type
58581	{"Q0":"10~20", "Q1":"10~20", "Q2":"American English"}	sound_20sec.mp3	survey-multi-choice

- Open the file
- Check the participant's responses



- If you are satisfied with the results of participants, you must approve them order to pay for the work
- Check check box on the left side
- Click "Approve"



- There is no submitted assignment if you approve all
- Click "Manage" again



- Check the batch status continuously

Appendix: Pricing

Worker Reward

 Requesters decide how much to pay Workers for each assignment.

MTurk fee

- 20% fee on the reward and bonus amount (if any) you pay Workers.
- 2. HITs with 10 or more assignments will be charged an additional 20% fee on the reward you pay Workers.
- 3. The minimum fee is \$0.01 per assignment or bonus payment.