

Lab 3 Walkthrough

Mechanical Turk

Crowdsourcing

- Mechanical Turk is a work infrastructure that allows people to perform quick tasks over the web for a small payment
- Human Intelligence Task (HIT)
 - a task that a **Requester** submits to Amazon Mechanical Turk for **Workers** to perform, e.g., transcribe an audio, tag an image
- The **requester** creates the HIT and pays the workers
- The **worker** chooses a HIT they like and are qualified to do

New Project | Create | Requester

https://requestersandbox.mturk.com/create/projects/new

UW Libraries Proxy... SVG Crowbar

Mechanical Turk Developer Sandbox
This site is for test and development only. [Learn more »](#)

Create an Account Already have an account? Sign In: Requester

amazon mturk Requester Create Manage Developer

New Project

Survey Link Survey

Vision

- Image Classification
- Bounding Box
- Semantic Segmentation
- Instance Segmentation
- Polygon
- Keypoint
- Image Contains
- Video Classification
- Moderation of an Image
- Image Tagging
- Image Summarization

Language

- Sentiment Analysis
- Collect Utterance
- Intent Detection
- Emotion Detection
- Semantic Similarity
- Conversation Relevance

Survey Link Instructions (Click to expand)

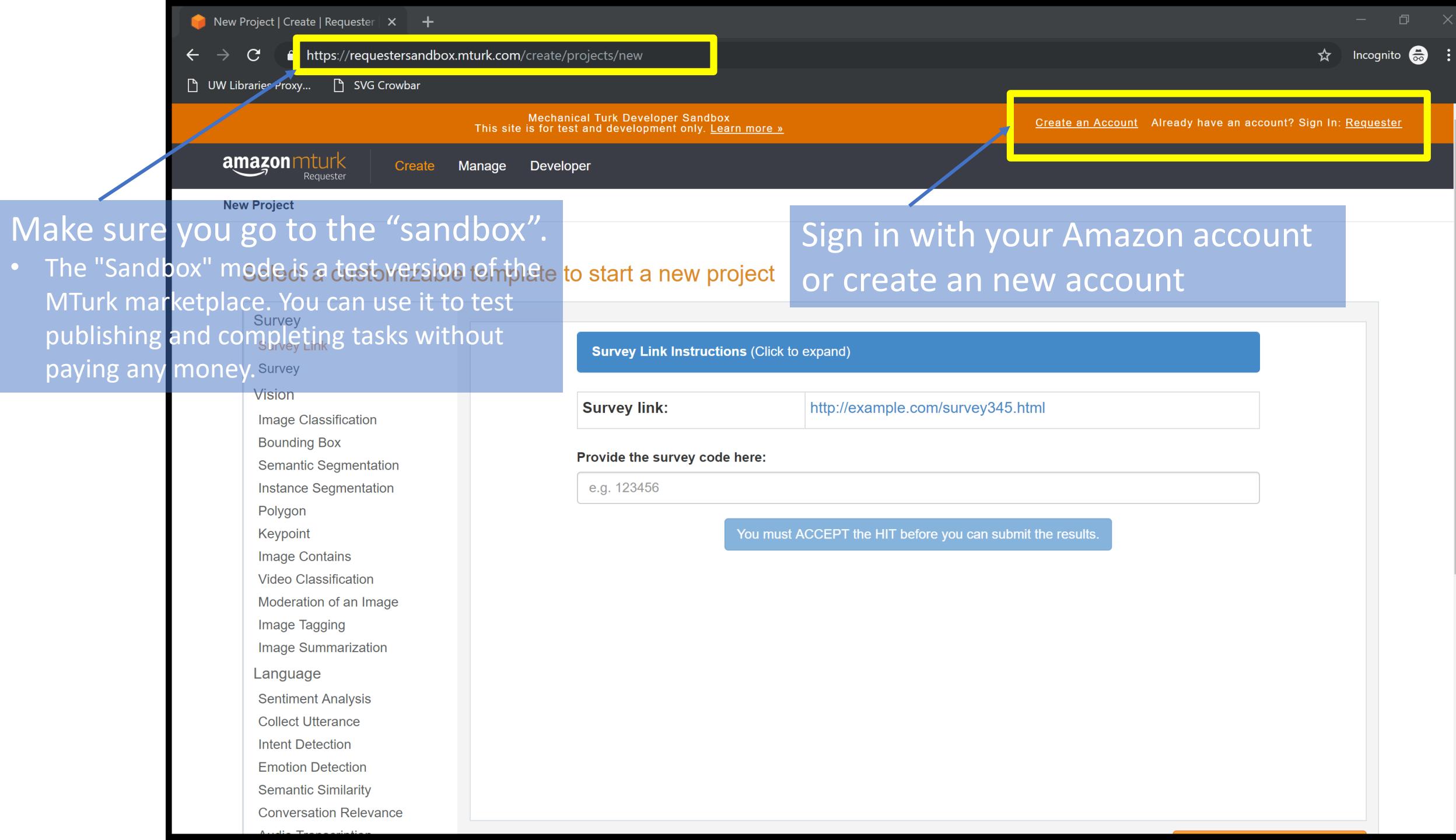
Survey link:

Provide the survey code here:

You must ACCEPT the HIT before you can submit the results.

Make sure you go to the “sandbox”.
• The "Sandbox" mode is a test version of the MTurk marketplace. You can use it to test publishing and completing tasks without paying any money.

Sign in with your Amazon account or create an new account

A screenshot of a web browser displaying the Amazon Mechanical Turk Developer Sandbox. The URL in the address bar is highlighted with a yellow box. The page title is 'Mechanical Turk Developer Sandbox' with a note 'This site is for test and development only.' Below the title are navigation links for 'Create', 'Manage', and 'Developer'. A large blue callout box on the left side of the page contains the text 'Make sure you go to the “sandbox”.' followed by a bullet point explaining the purpose of the sandbox. Another blue callout box on the right side contains the text 'Sign in with your Amazon account or create an new account'. A yellow box highlights the 'Create an Account' and 'Sign In' links at the top right of the page. A blue arrow points from the 'Create' link in the sidebar to the 'Create an Account' link in the header. The main content area shows a 'Survey Link Instructions' section with a 'Survey link:' input field containing a placeholder URL. Below it is a 'Provide the survey code here:' input field with a placeholder 'e.g. 123456'. A message at the bottom right says 'You must ACCEPT the HIT before you can submit the results.'

Steps

- Create a HIT
 - design the interface for annotation
 - configure the job properties
- Publish a batch
 - upload data for annotation
- Monitor and review results

New Project | Create | Requester x +

← → ⌂ https://requestersandbox.mturk.com/create/projects/new

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New Project New Batch with an Existing Project

Select a customizable template to start a new project

Survey

- Survey Link
- Survey

Vision

- Image Classification
- Bounding Box
- Semantic Segmentation
- Instance Segmentation
- Polygon
- Keypoint
- Image Contains
- Video Classification
- Moderation of an Image
- Image Tagging
- Image Summarization

Language

- Sentiment Analysis
- Collect Utterance
- Intent Detection**
- Emotion Detection
- Semantic Similarity
- Conversation Relevance
- Audio Transcription
- Document Classification
- Translation Quality
- Audio Naturalness

Others

Pick the most relevant intention expressed by the below text

Hello, I'd like a large pizza

Select an option

Order	1
Cancel	2
Return	3

Create a project using the provided template

Submit

Create Project

New Project | Create | Requester x +

← → ⌂ https://requestersandbox.mturk.com/create/projects/new

UW Libraries Proxy... SVG Crowbar

New Project New Batch with an Existing Project

Select a customizable template to start a new project

Survey

- Survey Link
- Survey

Vision

- Image Classification
- Bounding Box
- Semantic Segmentation
- Instance Segmentation
- Polygon
- Keypoint
- Image Contains
- Video Classification
- Moderation of an Image
- Image Tagging
- Image Summarization

Language

- Sentiment Analysis
- Collect Utterance
- Intent Detection**
- Emotion Detection
- Semantic Similarity
- Conversation Relevance
- Audio Transcription
- Document Classification
- Translation Quality
- Audio Naturalness

Others

Pick the most relevant intention expressed by the below text

Hello, I'd like a large pizza

Select an option

Order	1
Cancel	2
Return	3

Create a project using the provided template

Submit

Create Project

Create | Requester | Amazon Mechanical Turk

https://requestersandbox.mturk.com/create/projects/83985/edit

UW Libraries Proxy... SVG Crowbar

Edit Project

Specify the properties that are common for all of the tasks created using this project.

1 Enter Properties 2 Design Layout 3 Preview and Finish

Project Name: Intent Detection

This name is not displayed to Workers.

Describe your task to Workers

Title Select the most relevant intention expressed by the text

Describe the task to Workers. Be as specific as possible, e.g. "answer a survey about movies", instead of "short survey", so Workers know what to expect.

Description Select the most relevant intention expressed by the text

Give more detail about this task. This gives Workers a bit more information before they decide to view your task.

Keywords text, classification, intent

Provide keywords that will help Workers search for your tasks.

Setting up your task

Reward per assignment \$

This is how much a Worker will be paid for completing an assignment. Consider how long it will take a Worker to complete each assignment.

Number of assignments per task 3

How many unique Workers do you want to work on each task?

Time allotted per assignment 1 Hours

Project Name (not displayed to workers)

Task information (displayed to workers)

- be informative

Create | Requester | Amazon Mechanical Turk

https://requestersandbox.mturk.com/create/projects/83985/edit

Keywords: text, classification, intent

Provide keywords that will help Workers search for your tasks.

Setting up your task

Reward per assignment: \$ []

This is how much a Worker will be paid for completing an assignment. Consider how long it will take a Worker to complete each assignment.

Number of assignments per task: 3

How many unique Workers do you want to work on each task?

Time allotted per assignment: 1 Hours

Maximum time a Worker has to work on a single task. Be generous so that Workers are not rushed.

Task expires in: 7 Days

Maximum time your task will be available to Workers on Mechanical Turk.

Auto-approve and pay Workers in: 3 Days

This is the amount of time you have to reject a Worker's assignment after they submit the assignment.

Worker requirements

Require that Workers be Masters to do your tasks (Who are Mechanical Turk Masters?)

Yes No

Specify any additional qualifications Workers must meet to work on your tasks:

The money you pay for each assignment.

- In the sandbox, your Current Balance is always \$10,000.00.

Number of workers (annotations) you want for each datapoint

- it is usually good to have more than one annotations on each datapoint

Within this time frame after an assignment is submitted, you can reject a worker's annotation. After this time frame, the worker will be paid for the submitted assignment.

Create | Requester | Amazon Mechanical Turk

How many unique Workers do you want to work on each task?

Time allotted per assignment: 1 Hours

Task expires in: 7 Days

Auto-approve and pay Workers in: 3 Days

This is the amount of time you have to reject a Worker's assignment after they submit the assignment.

Worker requirements

Require that Workers be Masters to do your tasks ([Who are Mechanical Turk Masters?](#))

Yes No

Specify any additional qualifications Workers must meet to work on your tasks:

(+) Add another criterion (up to 5)
(Premium Qualifications incur additional fees, see [Pricing Details](#) to learn more)

Project contains adult content ([See details](#))

This project may contain potentially explicit or offensive content, for example, nudity.

You can set requirements (e.g., geographic locations) to only allow certain types of workers

- keep them to default for this lab

Save and go to the next page

Save **Design Layout**

HTML Elements Reference

<https://docs.aws.amazon.com/sagemaker/latest/dg/sms-ui-template-reference.html>

Edit Project

Use the HTML editor below to design the layout of your task, which Workers will complete.

You can use any HTML, CSS, or JavaScript to customize your layout.

Or use Crowd HTML Elements to simply design your layout.

This layout is common for all of the tasks created with this project. You can define variables (eg \${variable_name}) for data that will vary from task to task based on your CSV input file ([Learn more](#)).

```
① Enter Properties ② Design Layout ③ Preview and Finish

8+ <crowd-form answer-format="flatten-objects">
9
10  <!-- The crowd-classifier element will create a tool for the Worker to select the
11  | correct answer to your question -->
12  <crowd-classifier
13  | categories=['Order', 'Cancel', 'Return']
14  | header="Pick the most relevant intention expressed by the below text"
15  | name="intent">
16
17  <!-- The text you want classified will be substituted for the "text" variable when you
18  | publish a batch with a CSV input file containing multiple text items -->
19  <classification-target> ${text} </classification-target>
20
21  <!-- Use the short-instructions section for quick instructions that the Worker
22  | will see while working on the task. Including some basic examples of
23  | good and bad answers here can help get good results. You can include
24  | any HTML here. -->
25
26  <short-instructions> SHORT INSTRUCTIONS TBD </short-instructions>
27
28  <!-- Use the full-instructions section for more detailed instructions that the
29  | Worker can open while working on the task. Including more detailed
30  | instructions and additional examples of good and bad answers here can
31  | help get good results. You can include any HTML here. -->
32  <full-instructions header="Intent Detection Instructions">
33  | <p>Select the most relevant intention expressed by the text.</p>
34  | <div>
35  |   <p><strong>Example: </strong>I would like to return a pair of shoes</p>
36  |   <p><strong>Intent: </strong>Return</p>
37  | </div>
38  </full-instructions>
39
40 </crowd-classifier>
```

Categories the worker can choose from.

`\${text}`: the 'text' column in the csv
file you are going to upload

Instructions

Save

Preview

Your project was successfully saved.

Edit Project

This is how your task will look to Mechanical Turk Workers. Before you publish these tasks, any variables (eg \${variable_name}) in the layout will be replaced with the input data that you provide when you publish your batch. You can [download a sample](#) of the CSV input file for this project or learn more about [acceptable file formats](#).

① Enter Properties

② Design Layout

③ Preview and Finish

Select the most relevant intention expressed by the text

Requester: uwef596convai

Reward: \$0.02 per task

Tasks available: 0

Duration: 1 Hours

i Previewing Answers Submitted by Workers

This message is only visible to you and will not be shown to Workers.
You can test completing the task below and click "Submit" in order to preview the data and format of the submitted results.

X

Instructions

[View full instructions](#)[View tool guide](#)

SHORT INSTRUCTIONS TBD

Pick the most relevant intention expressed by the below text

\${text}

Select an option

Order 1

Cancel 2

Return 3

<short-instructions> ...

<classification-target> ...

<crowd-classifier categories="["..."]" ...>

Finish

Your project was successfully saved.

Edit Project

This is how your task will look to Mechanical Turk Workers. Before you publish these tasks, any variables (eg \${variable_name}) in the layout will be replaced with the input data that you provide when you publish your batch. You can [download a sample](#) of the CSV input file for this project or learn more about [acceptable file formats](#).

① Enter Properties

② Design Layout

③ Preview and Finish

Select the most relevant intention expressed by the text

Requester: uwef596convai

Reward: \$0.02 per task

Tasks available: 0

Duration: 1 Hours

Qualifications Required: None



Previewing Answers Submitted by Workers

This message is only visible to you and will not be shown to Workers.

You can test completing the task below and click "Submit" in order to preview the data and format of the submitted results.

Instructions

[View full instructions](#)[View tool guide](#)

SHORT INSTRUCTIONS TBD

Intent Detection Instructions

Select the most relevant intention expressed by the text.

Example: I would like to return a pair of shoes**Intent:** Return

Close

<full-instructions> ...

Finish

Steps

- Create a HIT
 - design the interface for annotation
 - configure the job properties
- Publish a batch
 - upload data for annotation
- Monitor and review results

New Batch with an Existing Project

https://requestersandbox.mturk.com/create/projects

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Mechanical Turk Developer Sandbox
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uwee596convai | My Account | Sign Out | Help

amazonmturk Requester Create Manage Developer

New Project New Batch with an Existing Project

Your Project was successfully deleted.

Start a New Batch with an Existing Project

Project Name	Title	Created ▾	Last Edited
Intent Detection	Select the most relevant intention expressed by the text	April 30, 2019	April 30, 2019

Publish Batch Edit Copy Delete

Publish a batch to workers

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New Batch with an Existing Project

← → ⌛ 🔒 https://requestersandbox.mturk.com/create/projects

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New Project New Batch with an Existing Project

AutoSave (● Off) H ↵ ↻

File Home Insert Draw

POSSIBLE DATA LOSS Some features might not work correctly if you leave this on.

C7 A B C

	A	B	C
1	text		
2	Hit1_text_data		
3	Hit2_text_data		
4	Hit3_text_data		
5			
6			
7			
8			
9			
10			

Choose a .csv file with the variables you specified in your project. ([learn more](#))

Choose File <no file selected>

Don't have a data file? [Download a sample .csv file.](#)

Select the most relevant intention expressed by the text April 30, 2019 April 30, 2019 Publish Batch Edit Copy Delete

For the toy HIT, using the downloaded csv file

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Preview Confirm and Publish

Preview Tasks

This is how your task will look to Workers. Make sure that any variables in the task are correctly replaced by your input data, then click "Next".

Intent Detection

Select the most relevant intention expressed by the text

Requester: uwee596convai

Reward: \$0.02 per task

Tasks available: 3

Duration: 1 Hours

Qualifications Required: None

Instructions

[View full instructions](#)[View tool guide](#)

SHORT INSTRUCTIONS TBD

Pick the most relevant intention expressed by the below text

Hit1_text_data

Select an option

Order	1
Cancel	2
Return	3

Showing Task 1 of 3

Create | Requester | Amazon Mechanical Turk

https://requestersandbox.mturk.com/create/projects/83985/batches/236231/checkout

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1 Preview 2 Confirm and Publish

Confirm and Publish Batch

Please review the information about the Batch, then click "Publish".

Intent Detection

Batch Summary

Batch Name: Intent Detection 1 Description: Select the most relevant intention

Batch Properties

Title: Select the most relevant intention expressed by the text
Description: Select the most relevant intention expressed by the text
Batch expires in: 7 Days
Results are auto-approved and Workers are paid after: 3 Days

Tasks

Number of tasks in this batch: 3
Number of assignments per task: x 3
Total number of assignments in this batch: 9

Cost Summary

Reward per Assignment: \$0.02
Estimated Total Reward: \$0.18
Estimated Fees to Mechanical Turk: + \$0.09 (fee details)
Estimated Cost: \$0.27
Applied Prepaid HITs Balance: - \$0.27
Remaining Balance Due: \$0.00

In the sandbox, your Current Balance is always \$10,000.00.

Back Publish

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Results | Manage | Requester | An X

← → ⌂ https://requestersandbox.mturk.com/batches/236231

UW Libraries Proxy... SVG Crowbar

Results Workers Qualification Types

Manage Batches > Batch Details

Intent Detection 1

View the latest status of this batch, make changes, or get results.

Select the most relevant intention expressed by the text

Status

Cancel

Status: In Progress

0% submitted  100% published

Assignments Completed: 0 / 9

Creation Time: April 30, 2019 5:35 PM PDT

Average Time per Assignment: Not yet available

Estimated Completion Time: Not yet available

Settings

Results

Intent Detection

[View Project](#)
Note: If you have edited the Project after publishing this Batch, you will see the latest version.

Description: Select the most relevant intention expressed by the text

Keywords: text, classification, intent

Qualification Requirement(s):

Number of Assignments per task: 3

Reward per Assignment: \$0.02

Input File: input.csv

Batch expires on: Not yet available

Assignment duration: 1 hour

Auto Approval Delay: 3 days

Progress of the
data collection

Results

Assignments pending review: 0

Assignments approved: 0

Assignments rejected: 0

Cost Summary

Estimated Total Reward: \$0.18

Estimated Fees to Mechanical Turk: \$0.09 (fee details)

Estimated Total Cost: \$0.27

These costs are only an estimate until all of the assignments have been submitted and reviewed.

Example task from this Batch

Pick the most relevant intention expressed by the below text

Results | Manage | Requester | An X Amazon Mechanical Turk X

← → ⌂ https://workersandbox.mturk.com/projects/?end_signin=1&openid.pape.max_auth_age=43200&openid.identity=https%3A%2F%2Fwww.amazon.com%2Fap%2Fid%2Fa... ☆ Incognito ☺ :

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Worker ID: A45A98MU302QT

Hello, uwee596convai | Sign Out

amazonmturk Worker HITs Dashboard Qualifications uwee596convai

All HITs Your HITs Queue

HIT Groups (1-20 of 204)

Show Details Hide Details Items Per Page: 20

	HITS	Reward	Created	Actions
Requester: Rece Capture	1,357	\$0.03	1m ago	Preview Qualify
Requester: vse-mturk	5	\$0.00	2m ago	Preview Qualify
+ Robert Atwood	Hummingbird Watch - Early Forest Fire Detection	2	\$0.07	2m ago Preview Accept & Work
+ uwee596convai	Select the most relevant intention expressed by the text	3	\$0.02	4m ago Preview Accept & Work
+ Ethan Perez	Guess the answer!	29	\$1.50	6m ago Preview Accept & Work
+ vse-mturk	Customer Low Priority feedback request videos - COPSUI May-01-2019	2	\$0.00	11m ago Preview Qualify
+ Ethan Perez	Guess the answer!	28	\$1.12	11m ago Preview Accept & Work
+ vse-mturk-gamma	vsegamma testing Nudity May-01-2019	6	\$0.00	12m ago Preview Qualify
+ vse-mturk-gamma	vsegamma testing External URL May-01-2019	1	\$0.00	16m ago Preview Qualify
+ Ethan Perez	Guess the answer!	25	\$1.12	25m ago Preview Accept & Work
+ vse-mturk	Customer High Priority feedback request videos - COPSUI May-01-2019	2	\$0.00	31m ago Preview Qualify
+ Mirai	Identify images that contain markings (measurements, logo, text, etc.)	20	\$0.03	38m ago Preview Accept & Work
+ Mirai	Identify sketches, or images of packaging or images with borders	21	\$0.03	39m ago Preview Accept & Work

- go to the Worker sandbox
<https://workersandbox.mturk.com>
- search for your job name or your account name

Results | Manage | Requester | An X Amazon Mechanical Turk X +

← → ⌂ https://workersandbox.mturk.com/projects/?filters%5Bsearch_term%5D=uwee596convai&page_size=20&page_number=1&sort=updated_desc&filters%5Bmin_reward%5D=0.01

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You are using the Mechanical Turk Developer Sandbox. This site is for test and development only. [Learn more](#)

Worker ID: A45A98MU302QT [?](#)

Hello, uwee596convai | Sign Out

amazonmturk Worker HITs Dashboard Qualifications uwee596convai [Search](#) Filter

All HITs Your HITs Queue

1-1 of 1 results containing "uwee596convai"

HIT Groups

Show Details Hide Details Items Per Page: 20

Requester	Title	HITs	Reward	Created	Actions
+ uwee596convai	Select the most relevant intention expressed by the text	3	\$0.02	4m ago	Preview Accept & Work

< Previous 1 Next >

Start to work on the HIT by yourself

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An  company

Results | Manage | Requester | An x Amazon Mechanical Turk x +

← → ⌂ https://workersandbox.mturk.com/projects?filters%5Bmin_reward%5D=0&filters%5Bsearch_term%5D=uwee596convai&page_number=1&page_size=20&sort=updated_... ☆ Incognito ☺ :

UW Libraries Proxy... SVG Crowbar

You are using the Mechanical Turk Developer Sandbox. This site is for test and development only. [Learn more](#)

Worker ID: A45A98MU302QT [?](#) Hello, uwee596convai | Sign Out

amazonmturk Worker HITs Dashboard Qualifications uwee596convai [Filter](#)

All HITs Your HITs Queue

 **There are no more of these HITs available**

[Browse all available HITs.](#)

1-1 of 1 results containing 'uwee596convai'

HIT Groups

Show Details Hide Details Items Per Page: 20 ▾

Requester	Title	HITS ▾	Reward ▾	Created ▾	Actions
+ uwee596convai	Select the most relevant intention expressed by the text	3	\$0.02	5m ago	Preview Accept & Work

< Previous 1 Next >

The worker cannot annotate the same datapoint more than once.
So after the worker finishes all 3 assignments, he/she cannot work on this batch any more.

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Results | Manage | Requester | An X Amazon Mechanical Turk x +

← → ⌂ https://requestersandbox.mturk.com/batches/236231

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amazon mturk Requester Create Manage Developer

Results Workers Qualification Types

Manage Batches > Batch Details

Intent Detection 1

View the latest status of this batch, make changes, or get results.

Select the most relevant intention expressed by the text

Status

Status: In Progress

33% submitted 100% published

Assignments Completed: 3 / 9

Creation Time: April 30, 2019 5:35 PM PDT

Average Time per Assignment: 9 seconds

Estimated Completion Time: April 30, 2019 5:54 PM PDT (TODAY)

Check annotations here

Cancel

Progress of the data collection

Settings

Intent Detection

[View Project](#)
Note: If you have edited the Project after publishing this Batch, you will see the latest version.

Description: Select the most relevant intention expressed by the text

Keywords: text, classification, intent

Qualification Requirement(s):

Number of Assignments per task: 3

Reward per Assignment: \$0.02

Input File: input.csv

Batch expires on: May 07, 2019 5:35 PM PDT (Tuesday) [Extend this batch](#)

Assignment duration: 1 hour

Auto Approval Delay: 3 days

Results

Assignments pending review: 3

Assignments approved: 0

Assignments rejected: 0

Cost Summary

Estimated Total Reward: \$0.18

Estimated Fees to Mechanical Turk: \$0.09 ([fee details](#))

Estimated Total Cost: \$0.27

These costs are only an estimate until all of the assignments have been submitted and reviewed.

Results | Manage | Requester | An X Amazon Mechanical Turk x + https://requestersandbox.mturk.com/batches/236231/results UW Libraries Proxy... SVG Crowbar

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Results Workers Qualification Types

Manage Batches > Review Results

Review Results

Select the check boxes on the left to approve or reject results. You only pay for approved results. To evaluate results offline, select Download CSV.

For additional batch information, [view batch details](#).

Intent Detection 1

Customize View Filter Results

3 of 3 assignments (FILTER APPLIED: only show assignments that are in 'Submitted' status)

	Approve	Reject	HIT ID ▲	Worker ID	Lifetime Approval Rate	Input.Text	Intent.Label
<input type="checkbox"/>			338431Z1FMHH7V29YJ5I5DBT9UTOR1	A45A98MU302QT	0% (0/0)	Hit2_text_data	Order
<input type="checkbox"/>			36FFXPMSTAQ41O62ETOR99NMLVHOX	A45A98MU302QT	0% (0/0)	Hit3_text_data	Return
<input type="checkbox"/>			3KTCJ4SCVH35ENIGN9BQ7I4BAWKM1O	A45A98MU302QT	0% (0/0)	Hit1_text_data	Cancel

3 of 3 assignments (FILTER APPLIED: only show assignments that are in 'Submitted' status)

Download the annotation results

- Input.text
- Answer.intent.label
- Approve
- Reject
- ...

Upload CSV Download CSV

You can approve or reject annotations. Annotations will be auto-approved based on the HIT configuration. (See “Auto Approve and Pay Worker in ...” in the HIT configuration page)

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Cohen's Kappa Coefficient

(Cohen, 1960)

- Test-Retest or Inter-rater reliability for categorical (typically dichotomous) data.
- Accounts for chance agreement

Observed		Rater 2		
		Present	Absent	Total
Rater 1	Present	20	15	35
	Absent	10	55	65
	Total	30	70	100

Kappa Coefficient

Observed		Rater 2		
Rater 1	Present	Absent	Total	
	Present	20	15	35
	Absent	10	55	65
Total		30	70	100

Expected		Rater 2		
Rater 1	Present	Absent	Total	
	Present	10.5	24.5	35
	Absent	19.5	45.5	65
Total		30	70	100

$$\kappa = \frac{P_o - P_e}{1.0 - P_e}$$

P_o = observed proportion of agreements
 P_e = expected proportion of agreements

$$\kappa = \frac{[(20+55)/100] - [(10.5+45.5)/100]}{1 - [(10.5+45.5)/100]} = 0.43$$

Kappa Interpretation

- Interpretation:

Kappa Value	Interpretation
Below 0.00	Poor
0.00-0.20	Slight
0.21-0.40	Fair
0.41-0.60	Moderate
0.61-0.80	Substantial
0.81-1.00	Almost perfect

(source: Landis, J. R. and Koch, G. G. 1977. *Biometrics* 33: 159-174)

- kappa could be high simply because marginal proportions are either very high or very low!!
- Best interpretation of kappa is to compare its values on other, similar scales