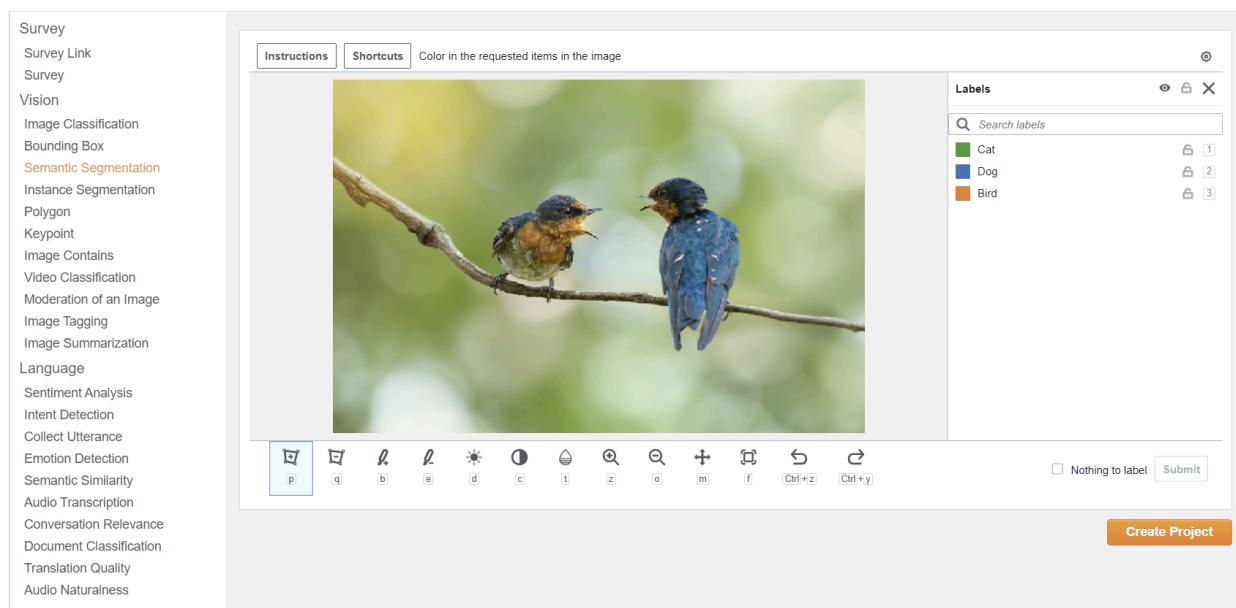


Mechanical Turk

<https://requester.mturk.com/create/projects/new>

위의 링크로 들어가서 만들면 된다.

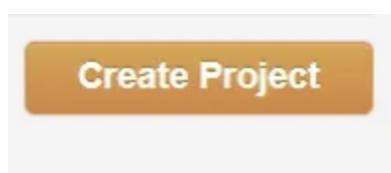
Select a customizable template to start a new project



Mechanical Turk 사이트에 들어가면

위의 사진과 같은 화면이 나오는데, 여기서 왼쪽에 목록이 뭐가 많이 있는데 그 목록 중 하나를 선택하면 (위의 예시에서는 Semantic Segmentation을 선택함) 선택한 항목에 대해 설문조사를 만들 수 있도록 가운데와 같은 형식의 템플릿을 불러올 수 있다.

적절한 템플릿을 선택한 후 **Create Project** 버튼을 클릭한다



그러면 아래와 같이 일종의 회원가입 사이트 같이 생긴 곳으로 넘어가게 된다.

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: Semantic Segmentation This name is not displayed to Workers.

Describe your task to Workers

Title Label the requested items in the image
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.

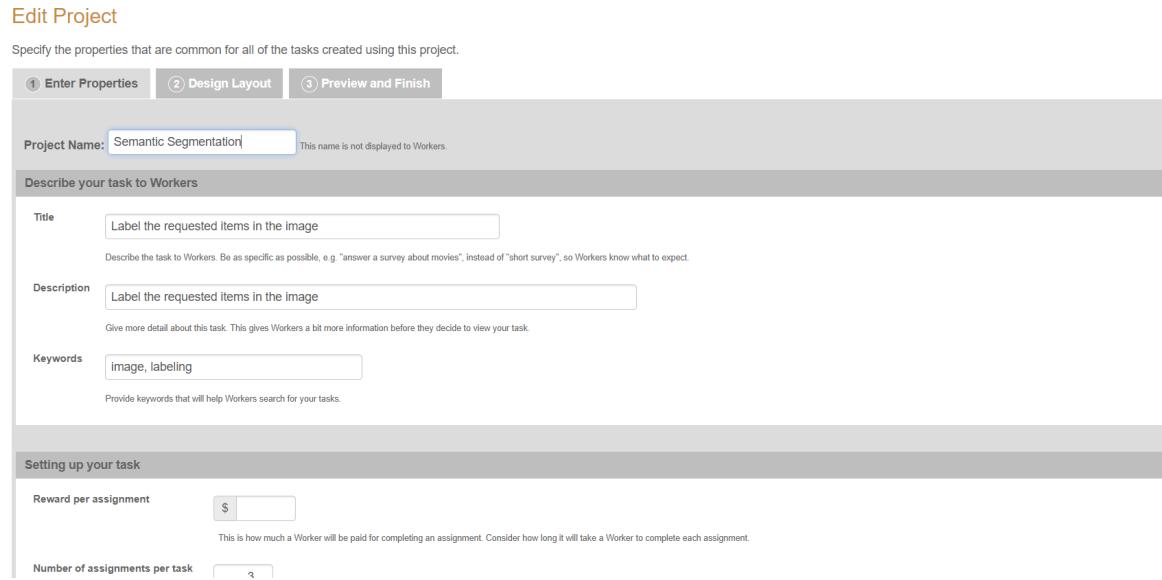
Description Label the requested items in the image
Give more detail about this task. This gives Workers a bit more information before they decide to view your task.

Keywords image, labeling
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



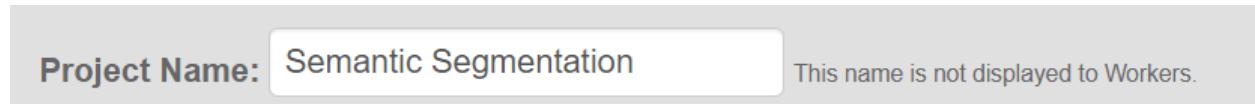
보면 Mechanical Turk를 만들기 위해 3 단계의 절차만 거치면 된다.

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

Enter Properties

1. Project Name : 참가자에게 보이는 이름이 아닌 우리끼리 프로젝트 구분하기 위함

Project Name: Semantic Segmentation This name is not displayed to Workers.



2. Title ~ Keywords : 설문조사 참가자들에게 보이는 내용

Describe your task to Workers

Title Label the requested items in the image

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 Label the requested items in the image

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

Keywords image, labeling

Provide keywords that will help Workers search for your tasks.

3. Setting up task

- Reward per assignment : 항목별로 참가자에게 지급할 돈
- Number of assignments per task : 참가자 몇 명 쓸 건지
- Time allotted per assignment : 문제 푸는데 제한시간 설정
- Task expires : 이 task 어느 기간만큼만 공개할지
- Auto-approve and ~~ : 일종의 타이머, 저 시간 지나면 자동으로 참가자에게 보수 지급됨.
 - 그 기간 동안 참가자가 제대로 일했는지 검토하는 용도

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.

4. Worker Requirements : 참가자 제한을 둘 건지 여부 (근데 이건 우리는 안 쓸 것 같다)

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.

[Save](#)

[Design Layout](#)

저장하거나 다음 과정으로 넘어가면 된다.

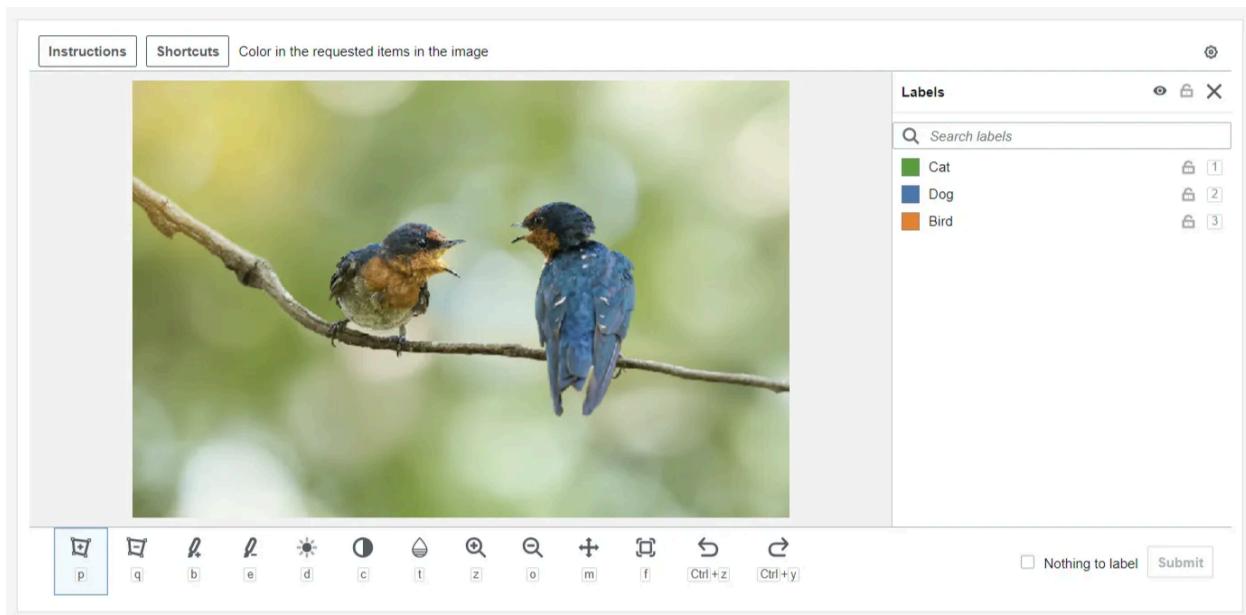
Design Layout

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](#)

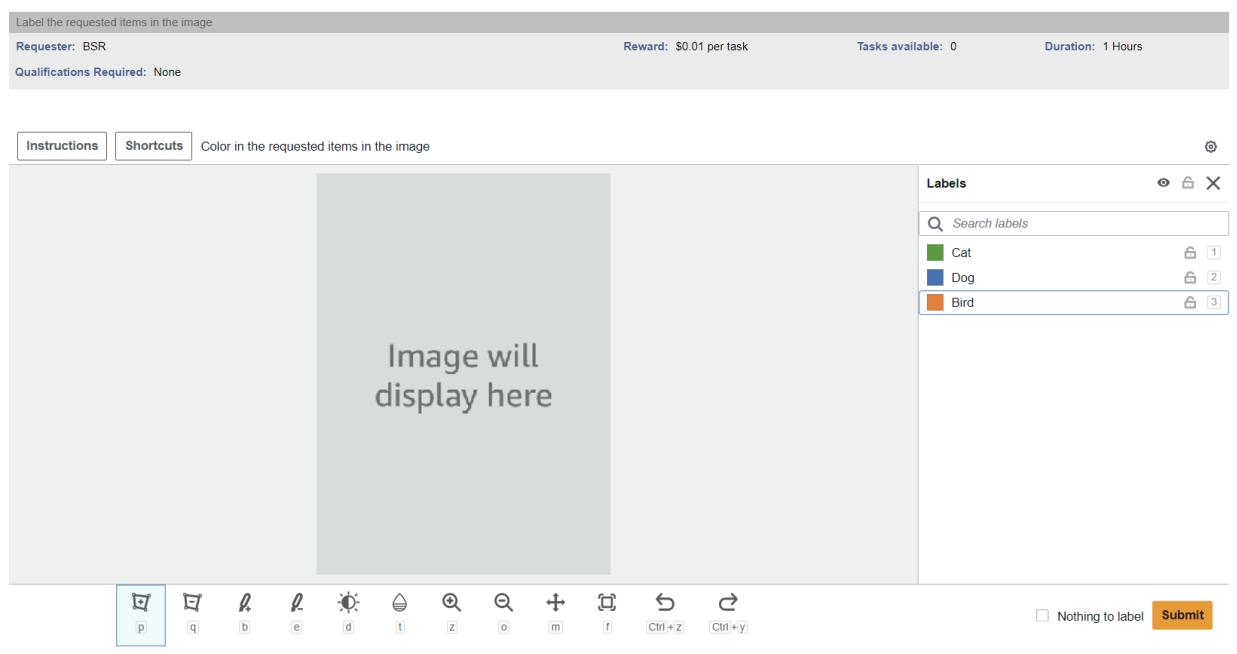
```
1  <!-- You must include this JavaScript file --&gt;
2  &lt;script src="https://assets.crowd.aws/crowd-html-elements.js"&gt;&lt;/script&gt;
3
4  &lt;!-- For the full list of available Crowd HTML Elements and their input/output documentation,
5      please refer to https://docs.aws.amazon.com/sagemaker/latest/dg/sms-ui-template-reference.html --&gt;
6
7  &lt;!-- You must include crowd-form so that your task submits answers to MTurk --&gt;
8  &lt;crowd-form answer-format="flatten-objects"&gt;
9
10     &lt;!-- The crowd-semantic-segmentation element will create a tool for the Worker to
11         perform pixel-level annotation of the specified objects in your image.
12
13     Your image file URLs will be substituted for the "image_url" variable below
14     when you publish a batch with a CSV input file containing multiple image file URLs.
15     To preview the element with an example image, try setting the src attribute to
16     "https://s3.amazonaws.com/cv-demo-images/two-birds.jpg" --&gt;
17
18     &lt;crowd-semantic-segmentation
19     src="${image_url}"
20     labels="['Cat', 'Dog', 'Bird']"
21     name="annotatedResult"
22     header="Color in the requested items in the image"
23
24     &lt;!-- Use the short-instructions section for quick instructions that the Worker
25         will see while working on the task. Including some basic examples of
26         good and bad answers here can help get good results. You can include
27         any HTML here. --&gt;
28     &lt;short-instructions&gt;
29     &lt;p&gt;Use the tools to label the requested items in the image&lt;/p&gt;
30     &lt;/short-instructions&gt;
31
32     &lt;!-- Use the full-instructions section for more detailed instructions that the</pre>
```

다음과 같이 HTML 스크립트가 나온다. 해당 HTML스크립트는 아래의 템플릿의 HTML스크립트를 나타낸 것으로 보인다.



일단 템플릿 대로 그대로 설문지를 만든다고 생각하고
save나 preview를 누르면

Preview and Finish



이렇게 설문지의 demo를 검토할 수 있도록 보여 준다.

이 상태 그대로 마치면

Start a New Batch with an Existing Project				
Project Name	Title	Created ▼	Last Edited	
Semantic Segmentation	Label the requested items in the image	December 3, 2025	December 3, 2025	<button>Publish Batch</button> <button>Edit</button> <button>Copy</button> <button>Delete</button>

이렇게 instance 생성 하듯이 project를 생성할 수 있다. 저기서 publish Batch를 누르면 (아마도 불특정)참가자 들에게 설문지가 공개되는 것으로 보인다.

그래서 뭐 해야함?

다른 설정값은 정하기 쉬운데 설문지 디자인을 직접해야 할 듯 하다.

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

Survey Link Instructions (Click to expand)

Survey link: http://example.com/survey345.html

Provide the survey code here:
e.g. 123456

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

보니까 템플릿 중에

이렇게 survey link라고 되어 있는 템플릿이 있는데, 위와 같이 survey link 따로 설문지를 주소로 제공하는 방식이다. 아래에 survey code를 쓰라고 항목이 마련되어 있는데, 설문 마지막 화면에 "설문에 참여해 주셔서 감사합니다. 당신의 코드는 **[849201]**입니다."와 같이 코드를 발급하는 화면을 만들어서 설문 참여자가 survey code를 알 수 있게 해주면, 해당 코드를 정확히 기입 해야만 설문 제출이 가능한 구조이다.

배포

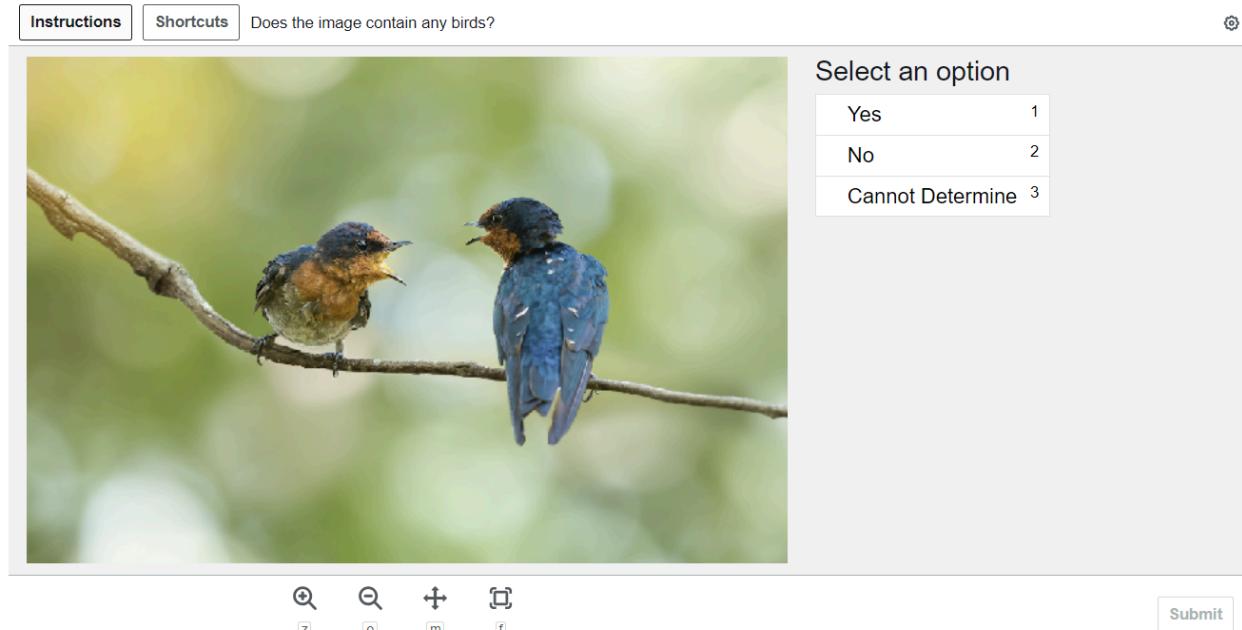
Start a New Batch with an Existing Project

Project Name	Title	Created ▼	Last Edited
Image Tagging	Describe an image	December 3, 2025	December 3, 2025

Publish Batch Edit Copy Delete

Publish Batch를 누른다

예를 들어 아래의 image classification에 대한 설문을 만든다고 할 때



Project Name	Title	Created	Last Edited	
Image Contains	Does this image contain the object of interest?	December 3, 2025	December 3, 2025	Publish Batch Edit Copy Delete
Image Tagging	Describe an image	December 3, 2025	December 3, 2025	Publish Batch Edit Copy Delete

NEW FEATURE: Amazon SageMaker Ground Truth Plus: Fully managed data labeling service. [Learn more »](#)

이런식으로 csv file을 업로드 하라고 한다. 이게 뭔 의미냐면,

위의 image classification에 대한 설문을 하기 위해서는 항목 수만큼 이미지 각각을 띄워 주면서 참가자에게 선택을 하라고 해야 한다. 이때 넣어주는 값을

image_url
Hit1_image_url_data
Hit2_image_url_data
Hit3_image_url_data

이런식으로 표로 넣어주면, 이 예시의 경우 각각의 Hit1_image_url_data ~ Hit3_image_url_data에 해당하는 사진을 각각 설문지 포맷에 맞춰 자동으로 띄워주게 된다.

즉, 우리 데이터를 csv파일로 정리해서 업로드 하고 각 항목별로 적절하게 UI로 나오도록 설문지를 디자인 하면 자동으로 설문지를 만들 수 있는 것으로 보인다.