

# YOLO PingPong 训练数据标注Pipeline

## label studio 使用教程

### 1.1 环境配置

官方配置环境网址（供参考，可以只看和运行下面四行指令，关于用anaconda安装）：<https://github.com/HumanSignal/label-studio?tab=readme-ov-file#included-templates-for-labeling-data-in-label-studio>

我使用的是 Anaconda 安装方式：

### Install locally with Anaconda

```
conda create --name label-studio
conda activate label-studio
conda install psycopg2
pip install label-studio
```

### 1.2 启动 label studio

打开终端

```
conda activate label-studio
```

```
label-studio
```

打开网址：<http://localhost:8080>

登陆账号和密码：[cengqs777@gmail.com](mailto:cengqs777@gmail.com) 12345678

点击打开 new project 1



点击一张图片进入即可开始标注：

Label Studio

Projects / New Project #1

Default

Actions | Columns | Filters | Order by | Label All Tasks

ID | Completed | Annotated by | image | img

ID	Completed	Annotated by	image	img
1	Feb 06 2026, 19:06:38	1 0 0 CE		<>
2	Feb 06 2026, 19:06:53	1 0 0 CE		<>
3	Feb 06 2026, 19:07:38	1 0 0 CE		<>
4	Feb 06 2026, 19:07:55	1 0 0 CE		<>
5	Feb 09 2026, 09:49:51	1 0 0 CE		<>
6	Feb 09 2026, 09:50:29	1 0 0 CE		<>
7	Feb 09 2026, 09:50:45	1 0 0 CE		<>
8	Feb 09 2026, 09:51:14	1 0 0 CE		<>
9	Feb 09 2026, 09:56:38	1 0 0 CE		<>
10	Feb 09 2026, 09:56:58	1 0 0 CE		<>
11	Feb 09 2026, 09:57:22	1 0 0 CE		<>
12		0 0 0		<>
13		0 0 0		<>
14		0 0 0		<>
15		0 0 0		<>
16		0 0 0		<>
17		0 0 0		<>
18		0 0 0		<>
19		0 0 0		<>
20		0 0 0		<>
21		0 0 0		<>
22		0 0 0		<>
23		0 0 0		<>

### 1.3 协作方式

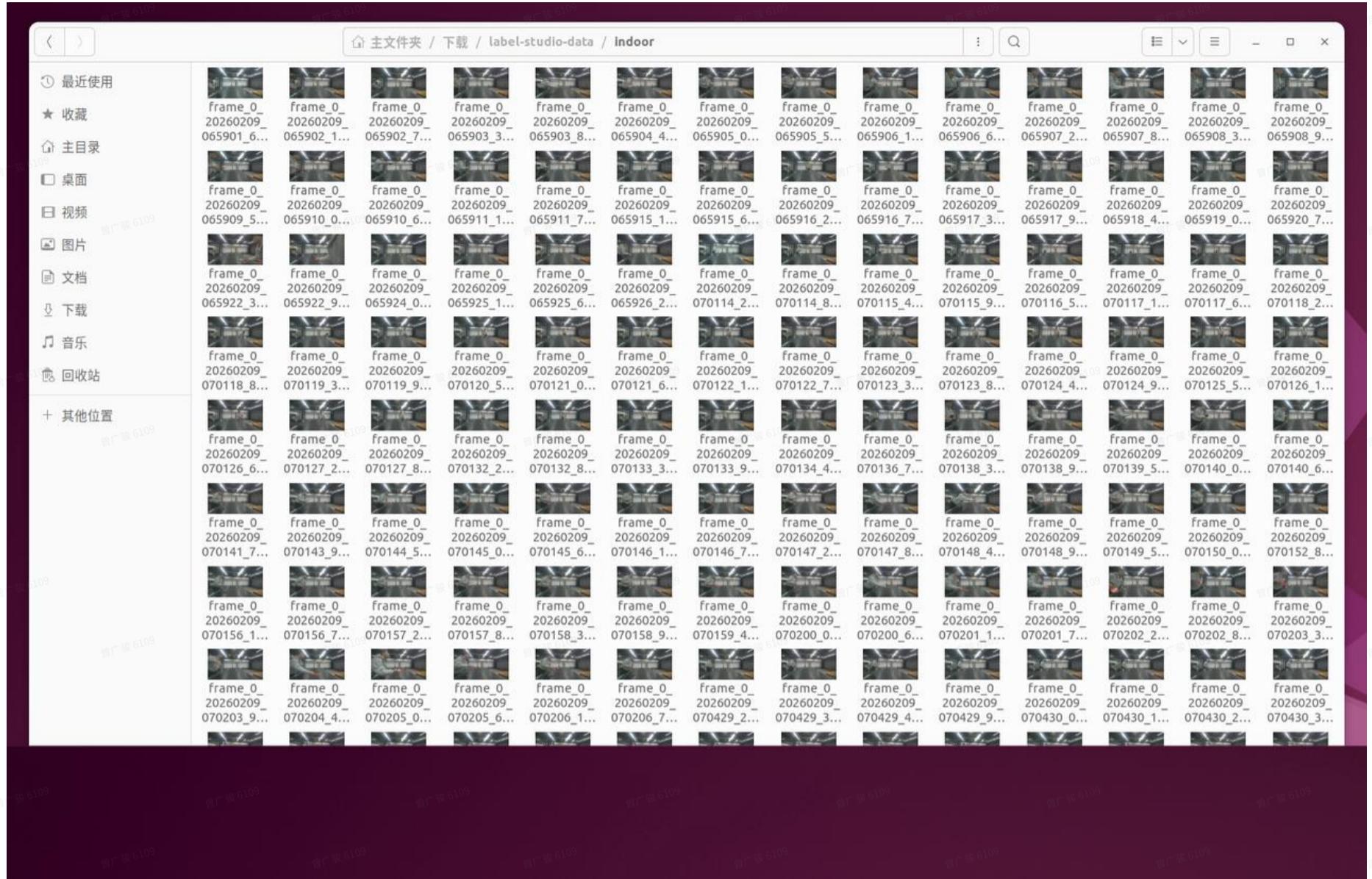
项目管理者先登陆label-studio

协作者需要在同一个wifi下，进入网址：<http://192.168.100.144:8080>

192.168.100.144是项目管理者电脑的ip address (用ipconfig查看，注意找无线局域网的ip address)

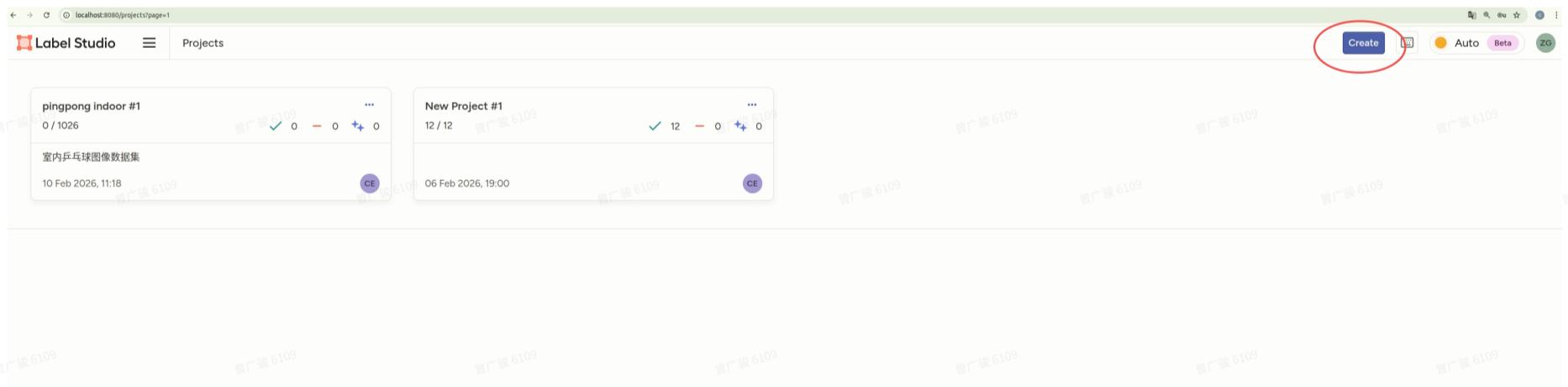
## 2. 导入数据集

在本地电脑中创建文件夹 label-studio-data, 再在里面创建一个子文件夹 indoor, 将images放入其中:



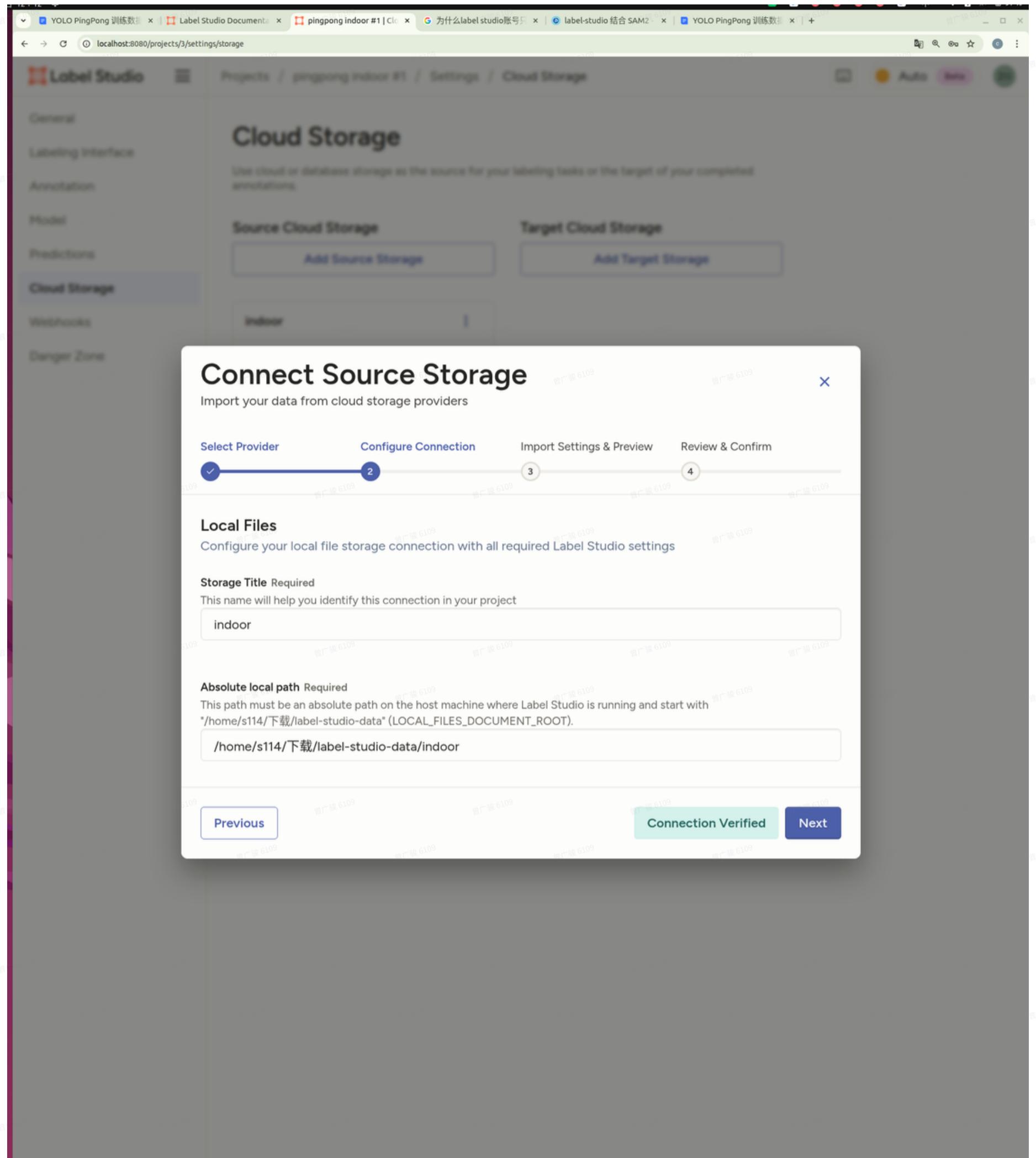
在label-studio文件夹的上一级目录（这里是“下载”）打开终端，启动label-studio，会自动给这个文件夹开放连接权限

在label-studio主页创建一个新project:



进入这个project,点击右上角Setting, 进入后在左栏选择Cloud Storage, 再点击"Add Source Storage",进去后选择"Local Files"

然后设置路径



再然后，选择文件类型

# Connect Source Storage

Import your data from cloud storage providers

Select Provider

Configure Connection

Import Settings & Preview

Review & Confirm

3

4

## Configure Import Settings & Preview Data

Set up filters for your files and preview what will be synchronized

### Import Configuration

#### Import Method (optional)

Choose how to interpret your data from storage

Files - Automatically creates a task for each s...

#### File Name Filter (optional)

Use regex patterns to filter which files are imported

.\*\.(jpg|png)\$ - imports only JPG, PNG files

Common filters: [Images](#) [Videos](#) [Audio](#) [Tabular](#)

#### Scan all sub-folders

Include files from all nested folders

### Files Preview



#### No Preview Available

Configure your import settings and click "Load Preview" to see a sample of files that will be imported.

Previous

Load Preview

Next

最后点击next进行save.

## 3. 标注方式

### 3.1 标签设置

进入这个project,点击右上角Setting, 进入后在左栏选择Labeling Interface, 然后点击:

General

**Labeling Interface**

Annotation

Model

Predictions

Cloud Storage

Webhooks

Danger Zone

**Labeling Interface**[Browse Templates](#)[Code](#) [Visual](#)

1 &lt;View&gt;&lt;/View&gt;

Configure the labeling interface with tags.  
See all available tags.

[Save](#)**UI Preview**[Regions](#) [History](#) [Relation](#)[Manual](#) [By Time](#) [↑](#) [↻](#)La  
S

YOLO PingPong 训练数 | Label Studio Document | pingpong indoor #1 | 为什么label studio账号 | label-studio 结合 SAM | YOLO PingPong 训练数 | +

localhost:8080/projects/1/settings/labeling

### Label Studio

Projects / pingpong indoor #1 / Settings / Labeling Interface

General

**Labeling Interface**

Annotation

Model

Predictions

Cloud Storage

Webhooks

Danger Zone

**Computer Vision**

- Natural Language Processing
- Audio/Speech Processing
- Conversational AI
- Chat
- Ranking & Scoring
- Structured Data Parsing
- Time Series Analysis
- Videos
- Generative AI
- Community Contributions
- Custom template

Semantic Segmentation with Polygons

Semantic Segmentation with Masks

Object Detection with Bounding Boxes

Trees in snow.

Image Captioning

Multi-page document annotation

Visual Genome

Train Station

Airport

Image Classification

Inventory Tracking

Medical Image Classification with Bounding Boxes

Optical Character Recognition

Please answer the question:  
Q1: Are there an equal number of colors? A1: [ ]

Visual Question Answering

Select text to correct  
Type 1 Incorrect Name 2 Inserted Name 3

Opossum Cuteness: A comparative analysis

Regions Attributes Relationships

Normal<sup>(2)</sup> Abnormal<sup>(2)</sup> mouth is black<sup>(2)</sup> hole ON log<sup>(2)</sup> pond bear holding something<sup>(2)</sup> tree behind bear<sup>(2)</sup> nose is black<sup>(2)</sup> tree BEHIND bear<sup>(2)</sup> piece of bamboo in panda's paw<sup>(2)</sup> face is round<sup>(2)</sup> mouth OF panda<sup>(2)</sup>

Incorrect Name The Opossum Charm:

Info

Enterprise

See the documentation to contribute a template.

The screenshot displays the Label Studio interface for labeling data. On the left, a sidebar lists categories such as General, Labeling Interface (which is selected), Annotation, Model, Predictions, Cloud Storage, Webhooks, and Danger Zone. Under the Computer Vision section, there are links for Semantic Segmentation with Polygons, Semantic Segmentation with Masks, Object Detection with Bounding Boxes, Image Captioning, Multi-page document annotation, Visual Genome, Image Classification, Inventory Tracking, and Medical Image Classification with Bounding Boxes. Each task is represented by a thumbnail image and a brief description. The main area shows examples of each task: a runner on a track, a row of airplanes, a blood smear with cells, a snowy forest path, a multi-page document with text, a train station platform, a supermarket aisle, a medical ultrasound image, and an optical character recognition (OCR) interface for invoices. A sidebar on the right provides options for text correction and enterprise features. A note at the bottom encourages users to contribute templates.

# Labeling Interface \*

[Browse Templates](#)

[Code](#) [Visual](#)

```
1 <View>
2   <Image name="image" value="$image"/>
3   <RectangleLabels name="label" toName="image">
4     <Label value="pp" background="green"/>
5   </RectangleLabels>
6 </View>
```

# Labeling Interface \*

Browse Templates

Code

Visual

## Configure data

Use image from

<set manually>

\$image

## Add label names

Use new line as a separator to add multiple labels

pp

Add

## Labels (1)

pp

## Configure settings

Width of region borders 1

- Allow image zoom (ctrl+wheel)
- Show controls to zoom in and out
- Show controls to rotate image

Display labels: bottom

- Add filter for long list of labels

# Labeling Interface \*

Browse Templates

Code

Visual

## Configure data

Use image from <set manually>

## Add label names

Use new line as a separator to add multiple labels

pp

Add

## Labels (1)

pp

## Configure settings

Width of region borders

- Allow image zoom (ctrl+wheel)
- Show controls to zoom in and out
- Show controls to rotate image

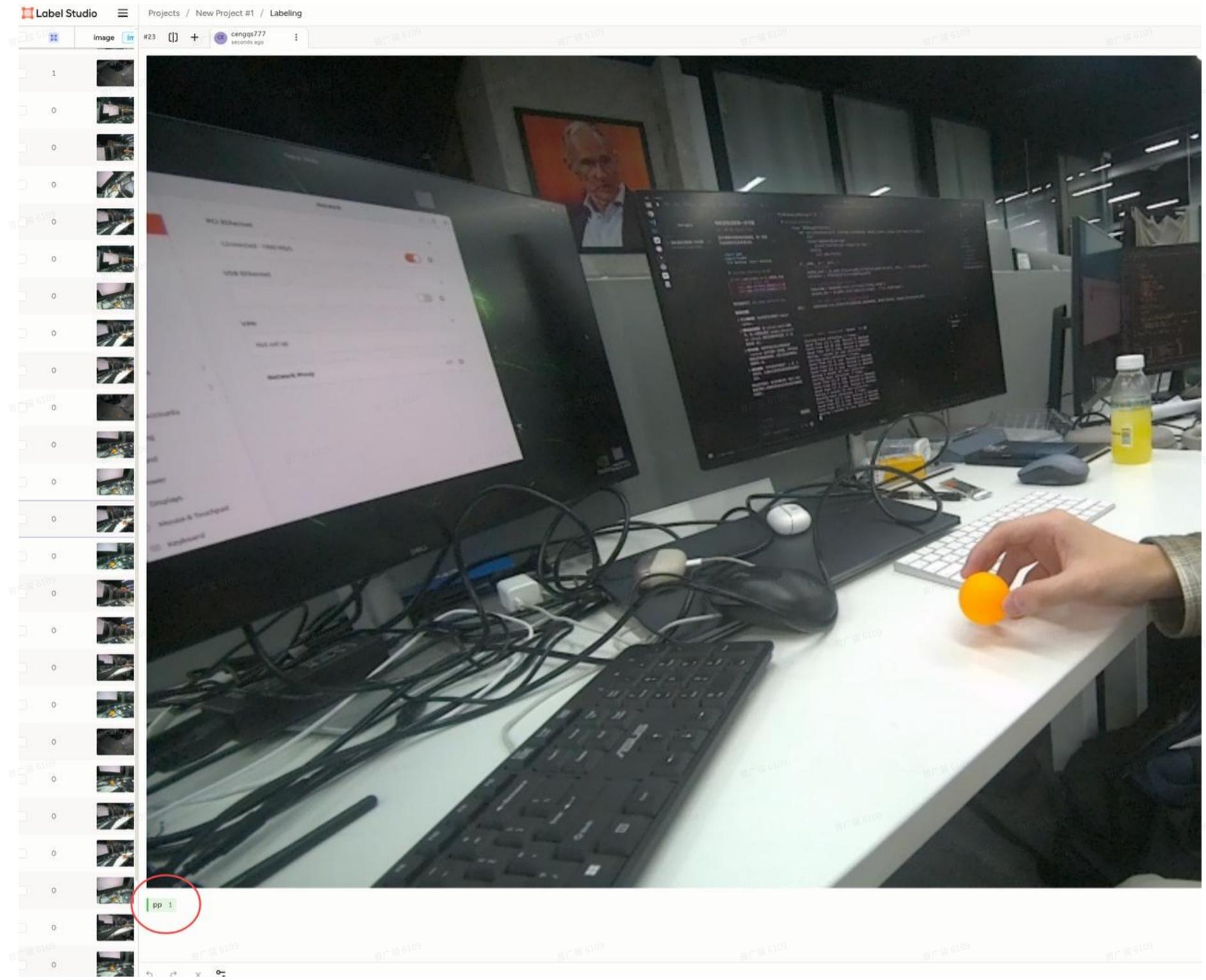
Display labels:

- Add filter for long list of labels

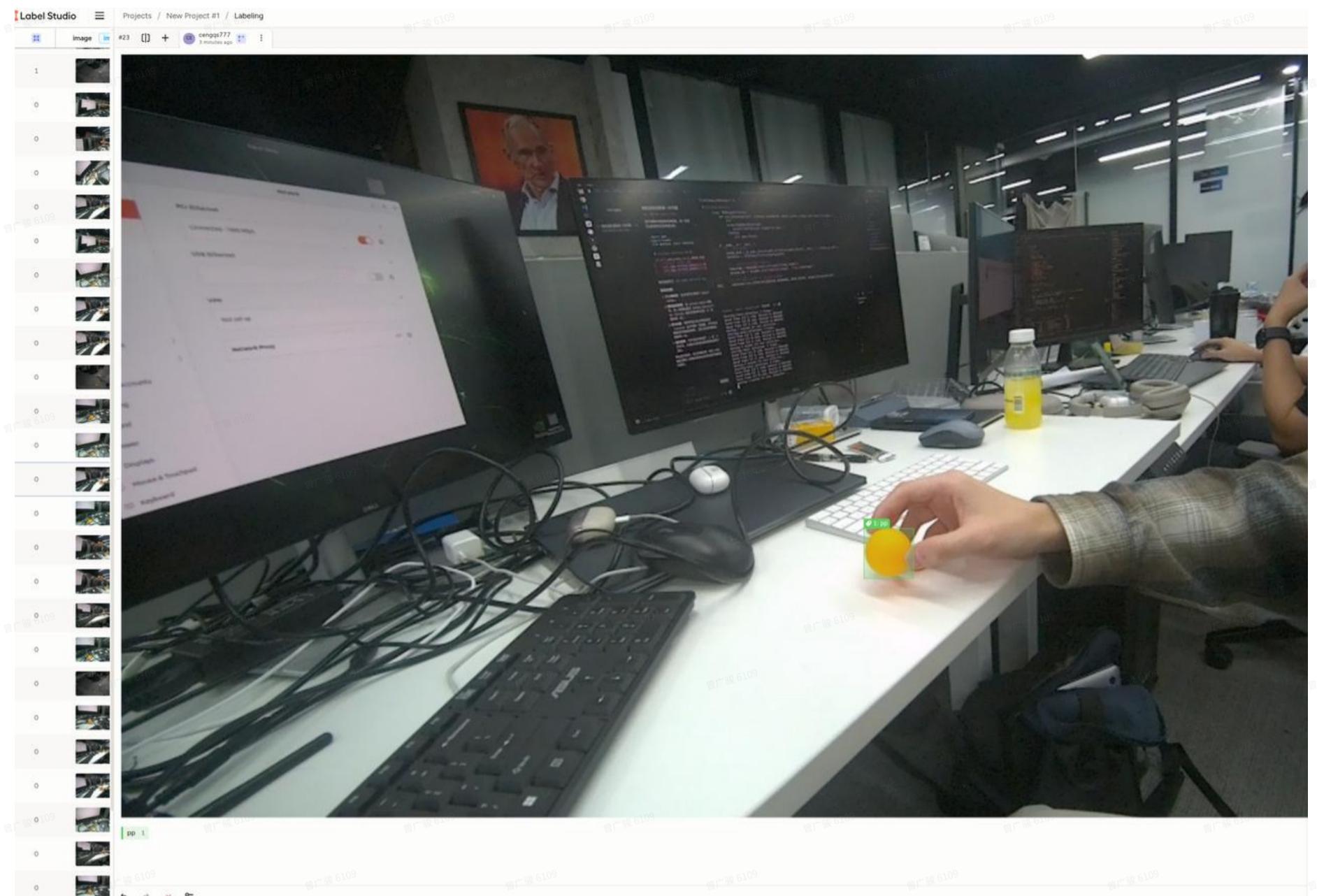
Save

## 3.2 标注流程

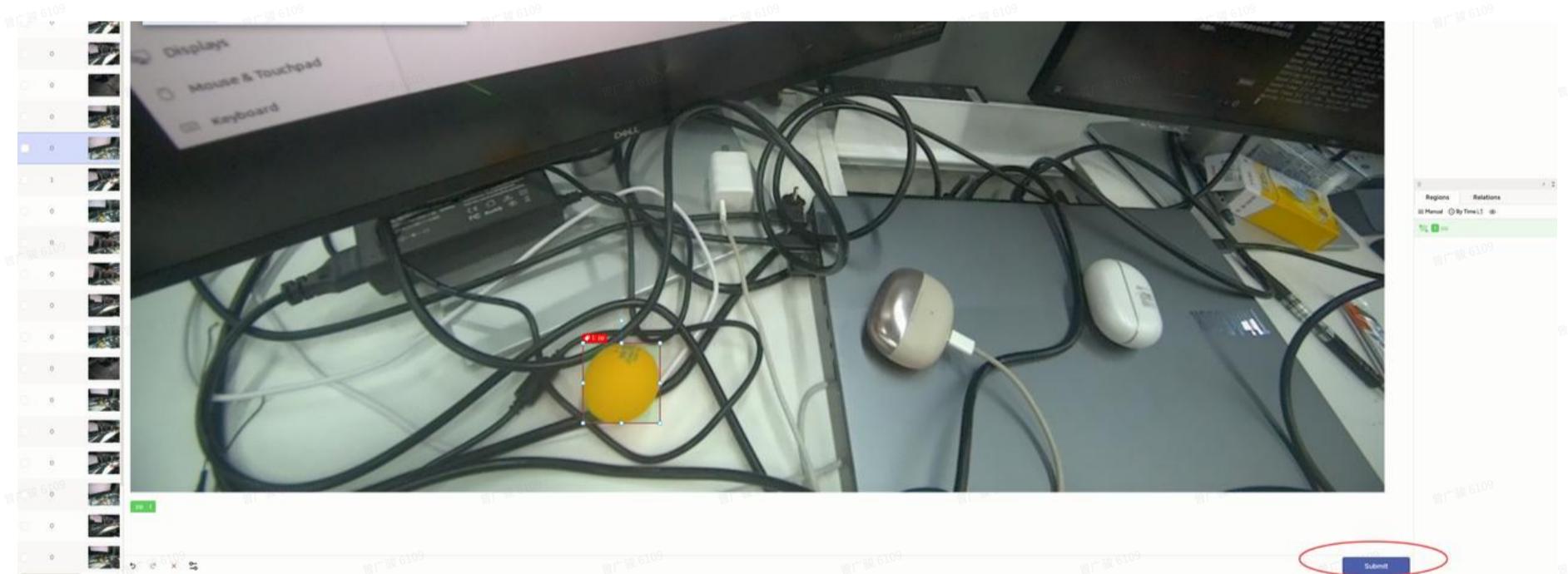
首先，点击左下角的绿色方块



其次，在图中点击拖动鼠标框出乒乓球，注意框的四条边尽量贴到球的边缘



最后，点击右下角的“submit”，即完成一张的标注。



## 4. 注意事项：

### 4.1.1 若存在图中没有球的情况，直接将这张图删去。

删除方式：

首先，回到project主页面：

Label Studio Projects / New Project #1

Default Actions Columns Filters Order by Label All Tasks

ID	Completed	Annotation Status	Annotated by	Image
1	Feb 06 2026, 19:06:38	1	0	CE
2	Feb 06 2026, 19:06:53	1	0	CE
3	Feb 06 2026, 19:07:38	1	0	CE
4	Feb 06 2026, 19:07:55	1	0	CE
5	Feb 09 2026, 09:49:51	1	0	CE
6	Feb 09 2026, 09:50:29	1	0	CE
7	Feb 09 2026, 09:50:45	1	0	CE
8	Feb 09 2026, 09:51:14	1	0	CE
9	Feb 09 2026, 09:56:38	1	0	CE
11	Feb 09 2026, 09:57:22	1	0	CE
22	Feb 09 2026, 17:19:18	1	0	CE
23	Feb 09 2026, 17:16:31	1	0	CE

其次，在最左侧将需要删去图的小正方形方框点击勾选

Label Studio Projects / New Project #1

Default 1 Task Columns Filters Order by Label 1 Task

ID	Completed	Annotation Status	Annotated by	Image
1	Feb 06 2026, 19:06:38	1	0	CE
2	Feb 06 2026, 19:06:53	1	0	CE
3	Feb 06 2026, 19:07:38	1	0	CE
4	Feb 06 2026, 19:07:55	1	0	CE
5	Feb 09 2026, 09:49:51	1	0	CE
6	Feb 09 2026, 09:50:29	1	0	CE
7	Feb 09 2026, 09:50:45	1	0	CE
8	Feb 09 2026, 09:51:14	1	0	CE
9	Feb 09 2026, 09:56:38	1	0	CE
11	Feb 09 2026, 09:57:22	1	0	CE
22	Feb 09 2026, 17:19:18	1	0	CE
23	Feb 09 2026, 17:16:31	1	0	CE

然后，点击“1 Task”的下拉小箭头，再点击“Delete Tasks”即可删除。

Label Studio Projects / New Project #1

Default +

1 Task Columns Filters Order by Label 1 Task

Retrieve Predictions Create Annotations From Predictions Remove Duplicated Tasks

**Delete Tasks**

**Delete Annotations**

**Delete Predictions**

ID	Count	Annotations	Predictions	Labeler	Image	Actions
3	1	0	0	CE		<>
3	1	0	0	CE		<>
3	1	0	0	CE		<>
4	Feb 06 2026, 19:07:55	1	0	CE		<>
5	Feb 09 2026, 09:49:51	1	0	CE		<>
6	Feb 09 2026, 09:50:29	1	0	CE		<>
7	Feb 09 2026, 09:50:45	1	0	CE		<>
8	Feb 09 2026, 09:51:14	1	0	CE		<>
9	Feb 09 2026, 09:56:38	1	0	CE		<>
11	Feb 09 2026, 09:57:22	1	0	CE		<>
22	Feb 09 2026, 17:19:18	1	0	CE		<>
23	Feb 09 2026, 17:16:31	1	0	CE		<>

## 5. 导出数据集

回到project主页，点击右上角 Export



导出格式为 YOLO witg images