

# 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

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

### 1.3 协作方式

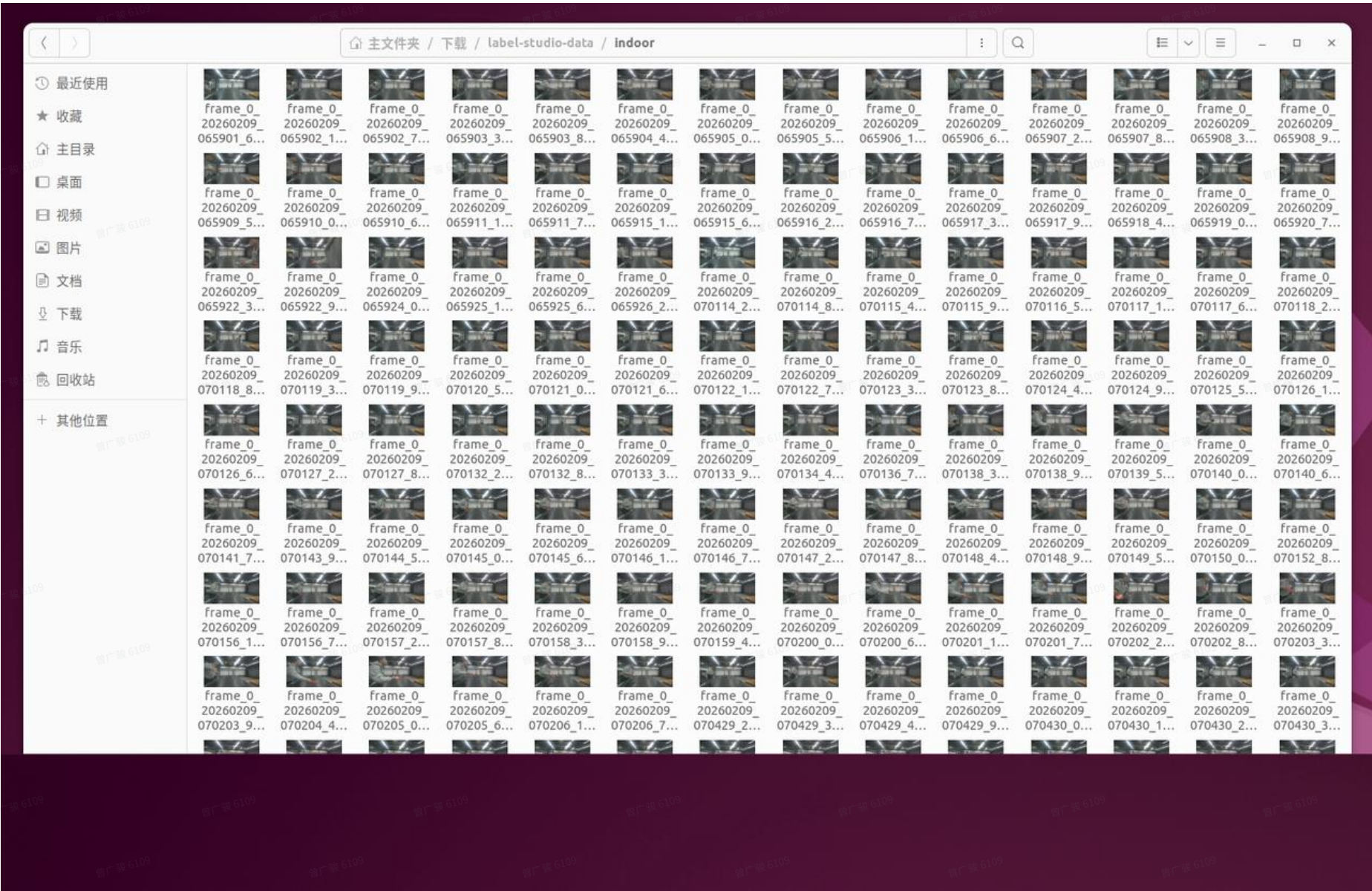
项目管理者先登陆label-studio

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)

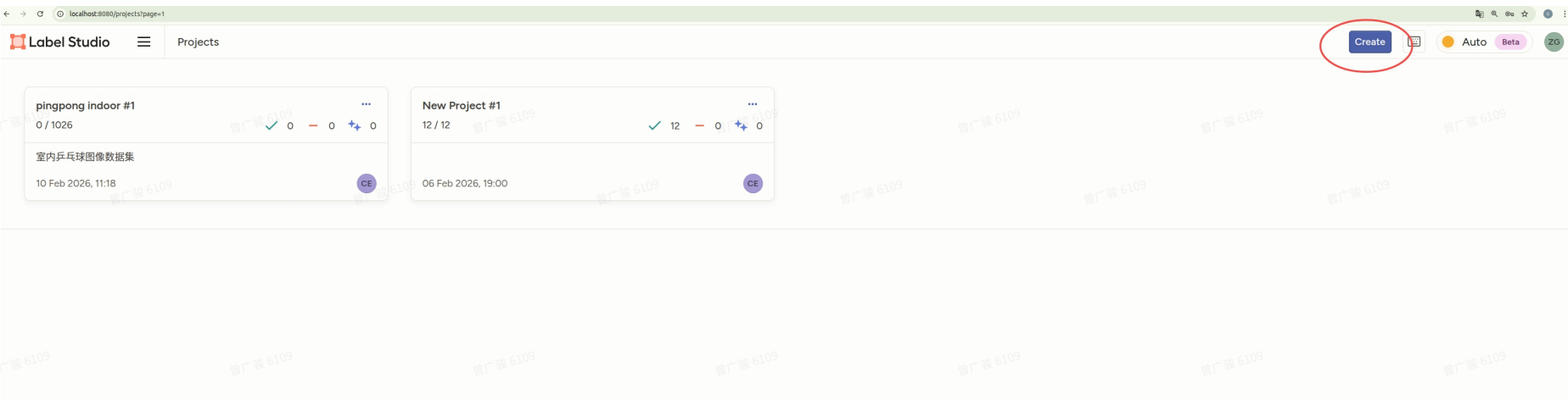
## 2. 导入数据集

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:



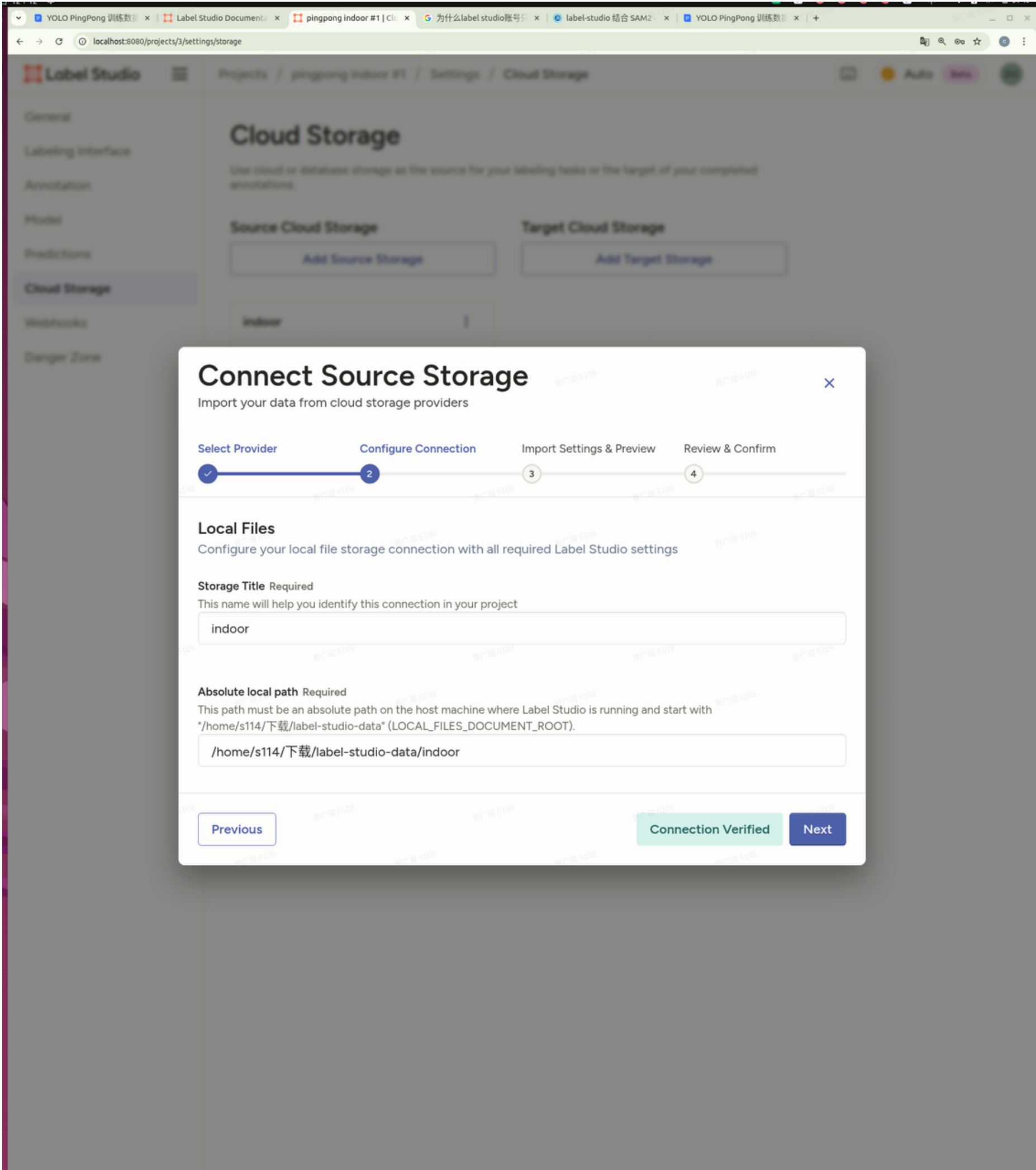
在label-studio文件夹的上一级目录（这里是“下载”）打开终端，启动 label-studio，会自动给这个文件夹开放连接权限

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

## 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：

Label Studio

Projects / pingpong indoor #1 / Settings / Labeling Interface

General

Labeling Interface

Annotation

Model

Predictions

Cloud Storage

Webhooks

Danger Zone

Labeling Interface

Browse Templates

1<View></View>

Code

Visual

UI Preview

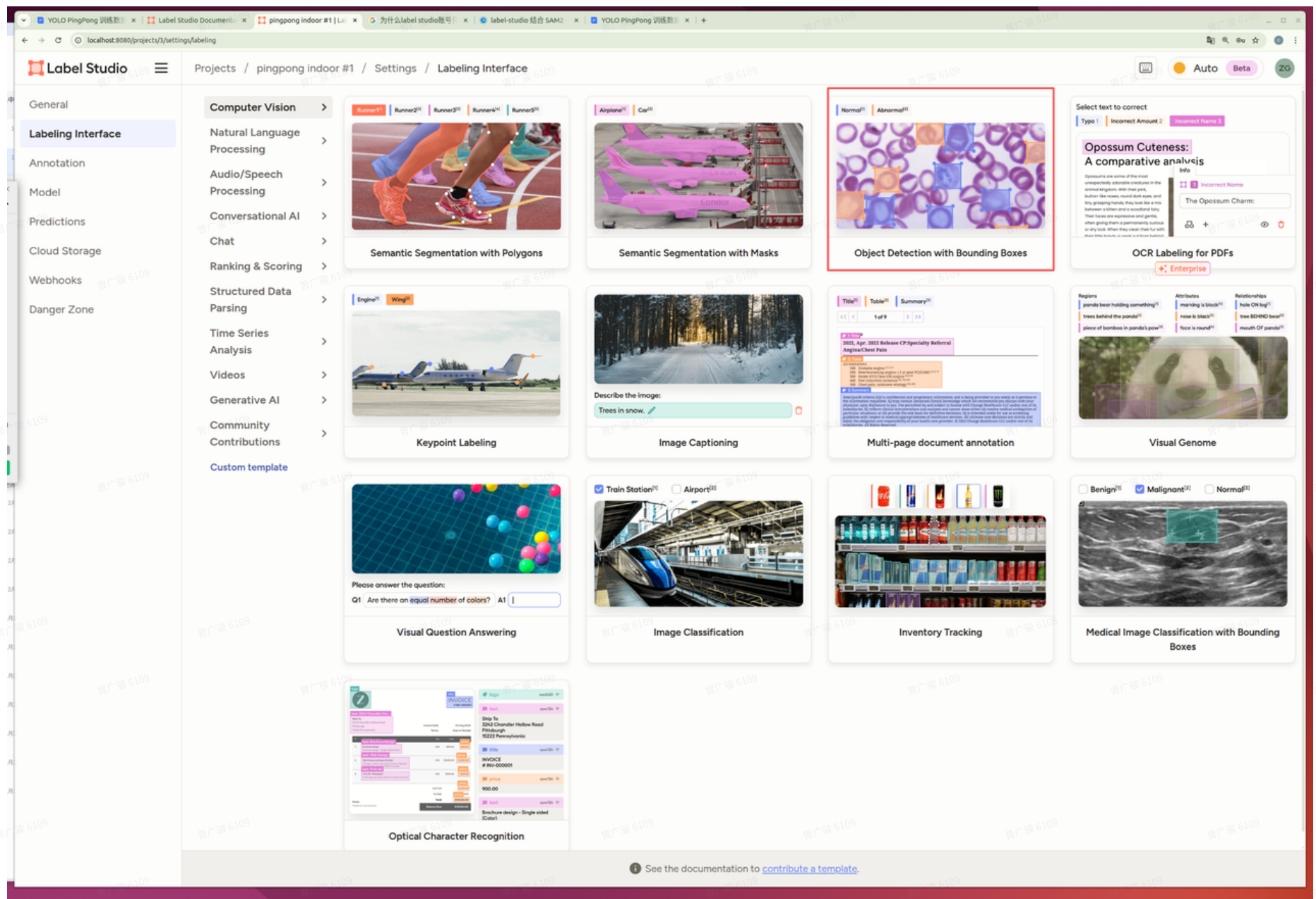
RegionsHistoryRelation

ManualBy Time

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

Save

La  
S



# 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
6   </RectangleLabels>
7 </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

CodeVisual

## 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

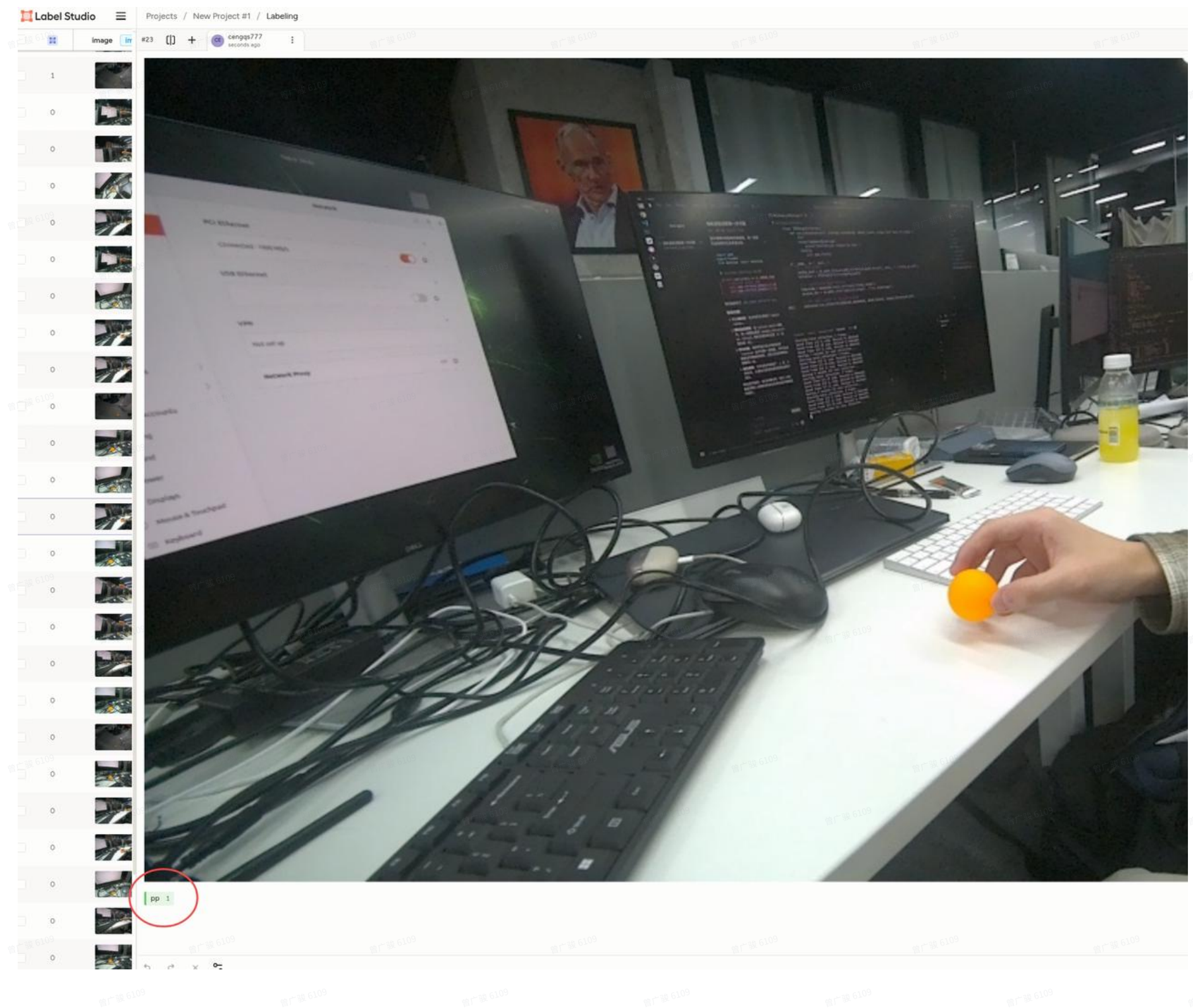
- ☐ Add filter for long list of labels

Save

最后保存设置。

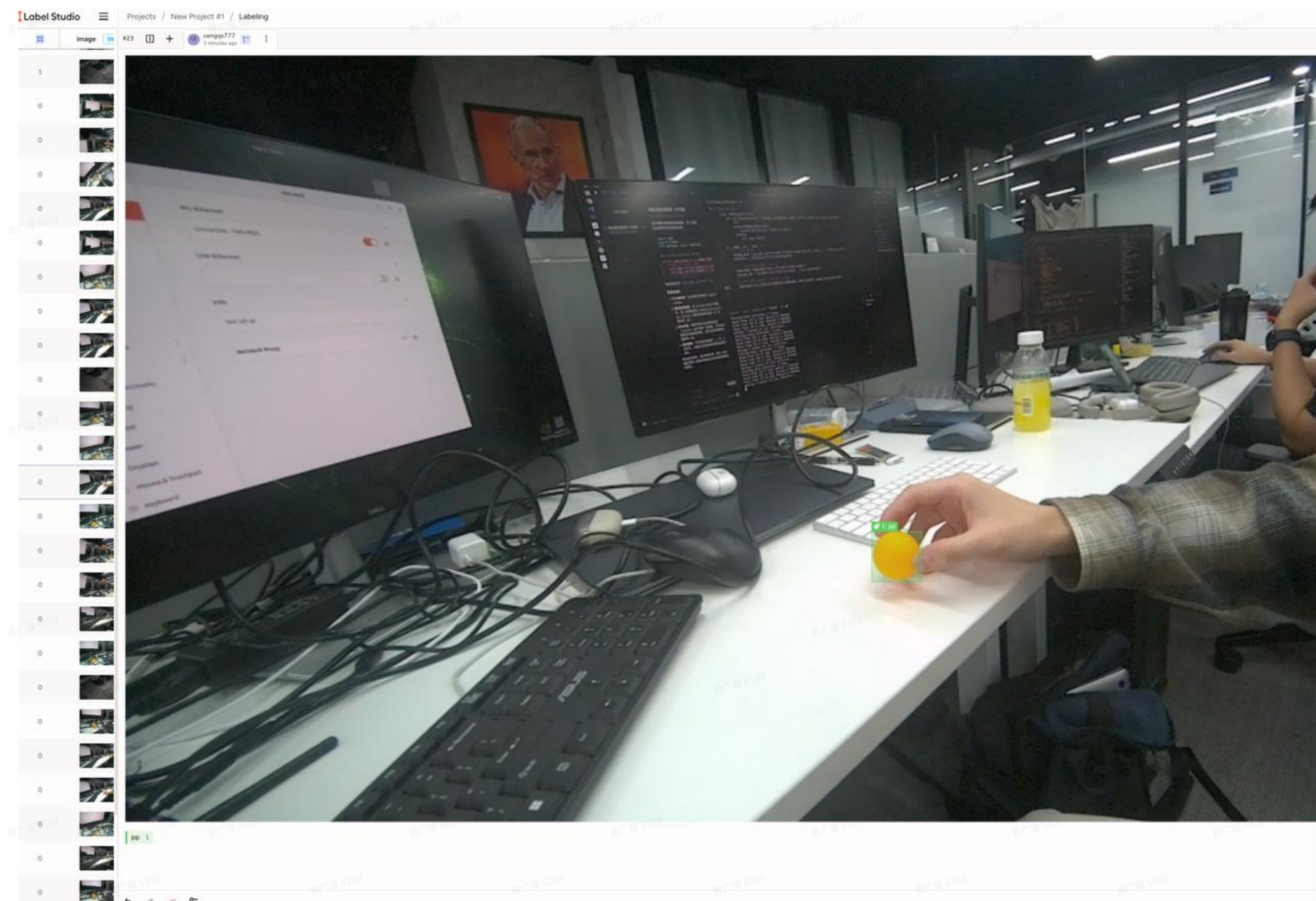
## 3.2 标注流程

首先，点击左下角的绿色方块

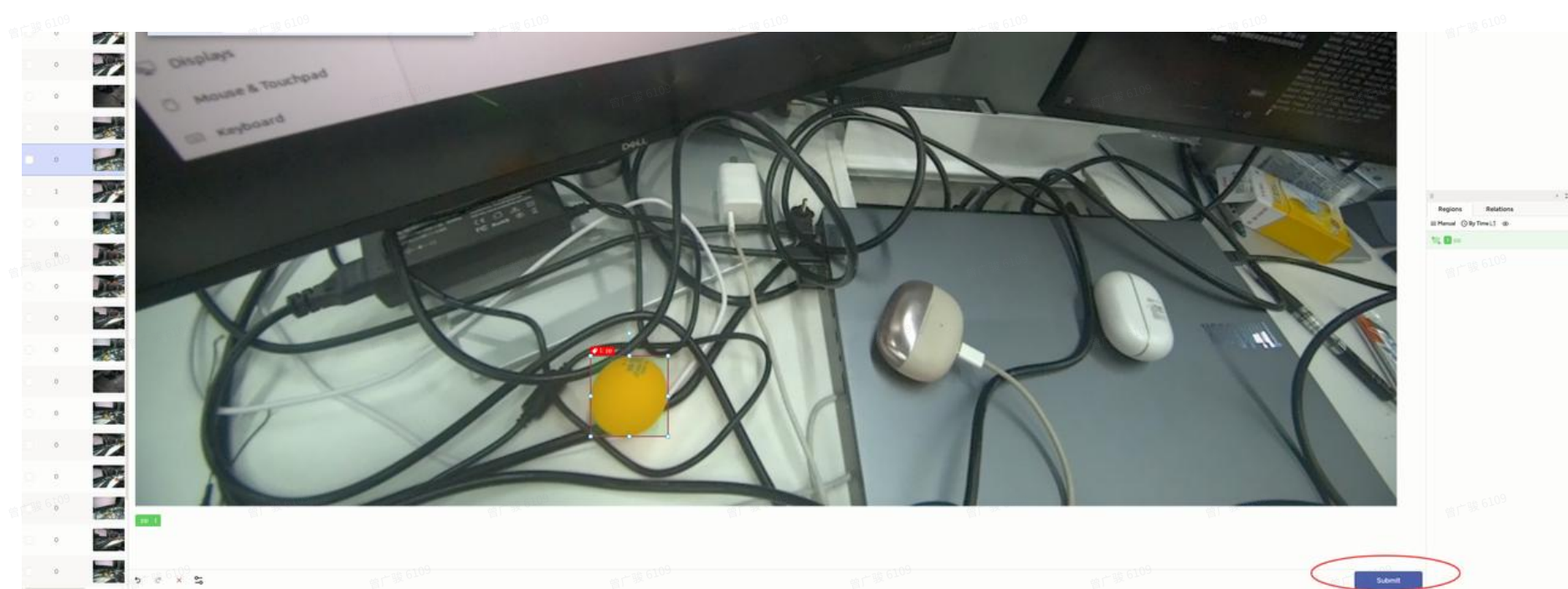


其次，在图中点击拖动鼠标框出乒乓球，注意框的四条边尽量贴到球的边缘





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

SettingsAutoBeta

Default

ActionsColumnsFiltersOrder byLabel All Tasks

ImportExport

ID	Completed	Annotated by	image
1	Feb 06 2026, 19:06:38100CE		<>
2	Feb 06 2026, 19:06:53100CE		<>
3	Feb 06 2026, 19:07:38100CE		<>
4	Feb 06 2026, 19:07:55100CE		<>
5	Feb 09 2026, 09:49:51100CE		<>
6	Feb 09 2026, 09:50:29100CE		<>
7	Feb 09 2026, 09:50:45100CE		<>
8	Feb 09 2026, 09:51:14100CE		<>
9	Feb 09 2026, 09:56:38100CE		<>
11	Feb 09 2026, 09:57:22100CE		<>
22	Feb 09 2026, 17:19:18100CE		<>
23	Feb 09 2026, 17:16:31100CE		<>

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

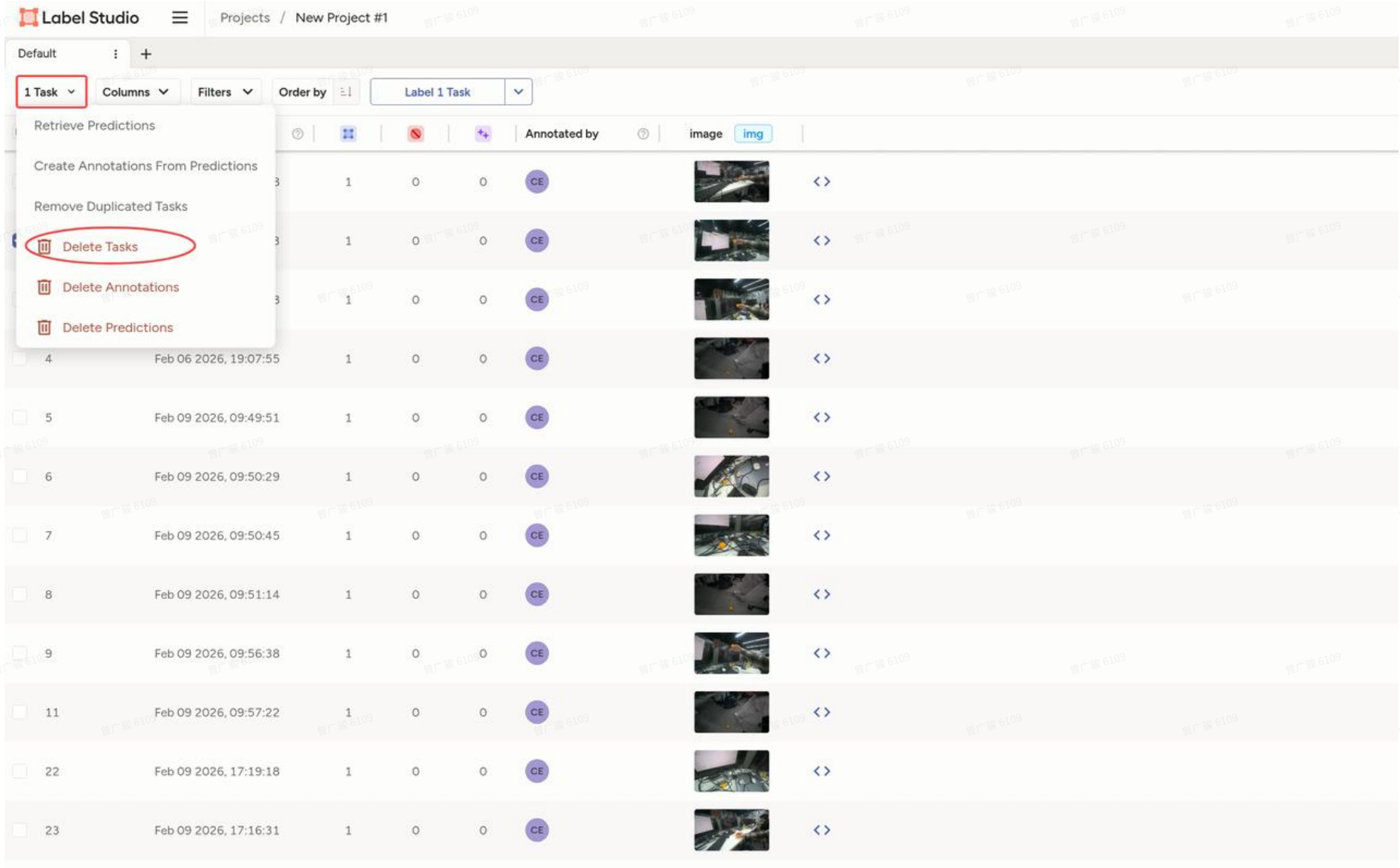
Default

1 TaskColumnsFiltersOrder byLabel 1 Task

ID	Completed	Annotated by	image
<input type="checkbox"/> 1	Feb 06 2026, 19:06:38100CE		<>
<input checked="" type="checkbox"/> 2	Feb 06 2026, 19:06:53100CE		<>
<input type="checkbox"/> 3	Feb 06 2026, 19:07:38100CE		<>
<input type="checkbox"/> 4	Feb 06 2026, 19:07:55100CE		<>
<input type="checkbox"/> 5	Feb 09 2026, 09:49:51100CE		<>
<input type="checkbox"/> 6	Feb 09 2026, 09:50:29100CE		<>
<input type="checkbox"/> 7	Feb 09 2026, 09:50:45100CE		<>
<input type="checkbox"/> 8	Feb 09 2026, 09:51:14100CE		<>
<input type="checkbox"/> 9	Feb 09 2026, 09:56:38100CE		<>
<input type="checkbox"/> 11	Feb 09 2026, 09:57:22100CE		<>
<input type="checkbox"/> 22	Feb 09 2026, 17:19:18100CE		<>
<input type="checkbox"/> 23	Feb 09 2026, 17:16:31100CE		<>

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





## 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