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# Center Circle Keypoint Annotator

This is a simple, easy-to-use desktop annotation tool that helps you manually label keypoints around the center circle of a football/soccer field from video frames or images.



## **Features**

- Click to add keypoints
- Drag keypoints to adjust
- Undo/reset keypoints
- Navigate freely between images
- Save annotations to a .json file
- See helpful instructions and warnings on screen



## How to Use

#### 1. Tool

- Double-click the provided .exe file (e.g., annotator.exe)
- A folder selection window will appear
- Choose the folder that contains your image frames

### 2. 🖄 Annotate Images

Once the tool opens:

- Left-click to add keypoints (add at least 17 total 16 around the circle and 1 center)
- Click and drag a keypoint to adjust its position
- You'll see live instructions and keypoint counts on the screen

## 3. Weyboard Controls

Key	Action
Left-click	Add a keypoint
Drag	Move a keypoint
u	Undo last keypoint
r	Reset (clear all keypoints)
n	Go to next image
р	Go to previous image
S	Save current annotations
Esc	Exit and auto-save current image

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- Saved in a file called annotations.json inside the selected image folder
- JSON format stores keypoints per image filename:

```
{
    "image1.jpg": [[x1, y1], [x2, y2], ..., [x17, y17]],
    "image2.jpg": [[x1, y1], [x2, y2], ..., [x17, y17]]
}
```