

## Using Prodigy for Text Categorization with custom recipe

### Prerequisites

1. Download and install the latest version of Python, see <https://www.python.org/downloads/> for details.
2. Download and install Prodigy, see <https://prodi.gy/docs/install> or as follows:
  - a. Open a code terminal.
  - b. Run the following pip command:

```
pip install prodigy -f https://XXXX-XXXX-XXXX-XXXX@download.prodi.gy
```

The code XXXX-XXXX-XXXX-XXXX is our academic Prodigy license. Please do not share it with people outside of the project.

### Annotation Process

1. Make sure you have the necessary data files in the directory from where you are going to start prodigy.
  - **Dataset** for annotation, e.g., ./prodigy/input/ pilot\_500\_pubmed\_abstracts.jsonl
  - **Configuration** file: prodigy.json
  - Terms to be **highlighted**: patterns.jsonl
  - Custom prodigy recipe file, e.g., recipe\_textcat\_patterns.py
2. Run the following command in the terminal:

```
python -m prodigy textcat.manual_patterns pubmed_abstracts_pilot  
./input/pilot_500_pubmed_abstracts.jsonl blank:en --patterns patterns.jsonl -F ./recipe_textcat_patterns.py
```

Pay attention to the following parameters:

Command line parameter	Description	Comments
textcat.manual_patterns	Recipe name as defined in recipe_textcat_patterns.py	Don't change.
pubmed_abstracts_dataset_test	Reference name of the dataset that will be created by prodigy.	Can be changed by the annotator!
pubmed_abstracts.jsonl	Input data that contains the texts that will be annotated.	Make sure the .jsonl file is in the directory, from where prodigy will be run.
blank:en	Model to be used by prodigy.	Don't change.
--patterns patterns.jsonl	Reference to the keywords that should be highlighted in the interface.	Make sure the .jsonl file is in the directory, from where prodigy will be run.
-F ./recipe_textcat_patterns.py	The custom recipe to be used that will define the logic behind the interface.	Don't change.

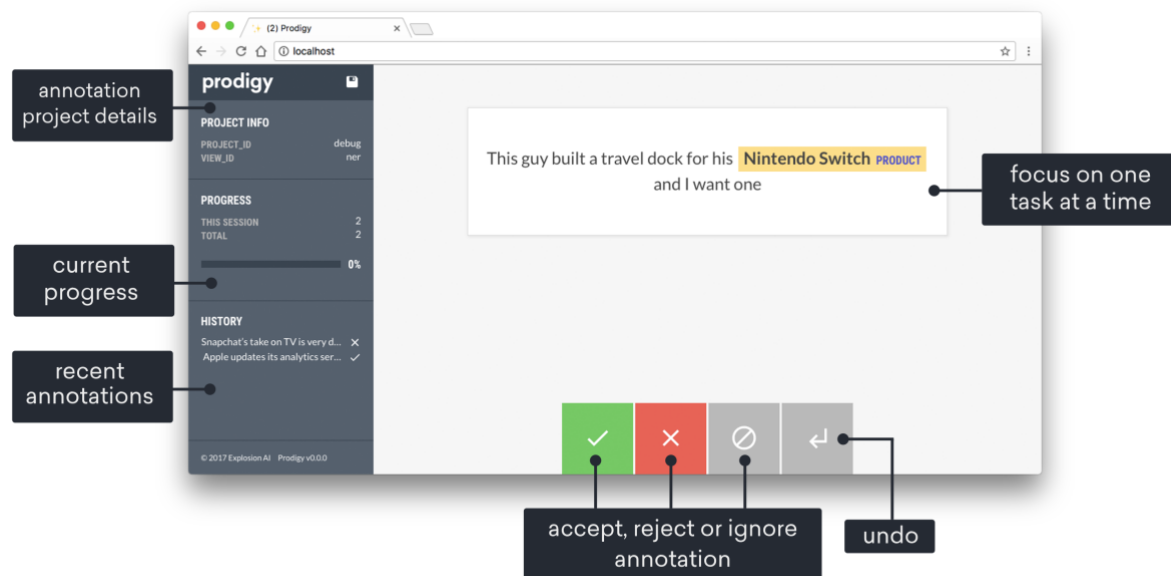
You should see the following message:

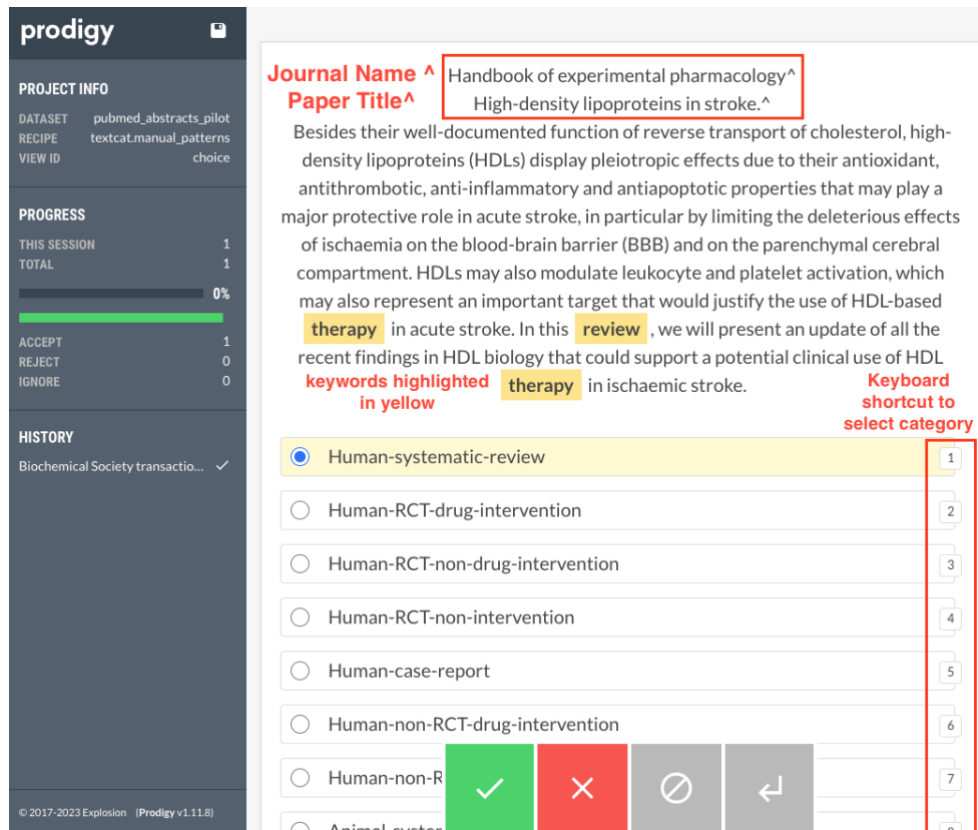
🌟 Starting the web server at <http://localhost:8080> ...

Open the app in your browser and start annotating!

3. Navigate in your web browser to <http://localhost:8080>
4. You will see the Prodigy interface.

The REJECT and IGNORE buttons have the same meaning for us: "this example is corrupted and not in good quality, or not relevant for my task. I want to remove this from both my training and test set." It can also just mean: "I don't know the answer and I just want to move on."





5. Use the interface to annotate the texts:

- Read the text.
- Select the fitting text category.
- Accept the example.
- Continue until the number of target annotations has been reached.
- Save the dataset.



6. Export the annotations with the following command:

```
prodigy db-out <PRODIGY_DATASET_NAME> >
./annotated_output/<ANNOTATED_DATA_FILE_NAME>.jsonl
```

for example

```
prodigy db-out pubmed_abstracts_pilot > ./annotated_output/pubmed_abstracts_pilot_500.jsonl
```

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