

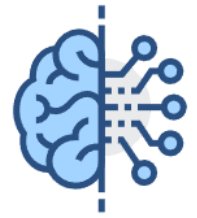
Oct 16, 2025

Version 1

Using VaBA web app V.1

DOI

<https://dx.doi.org/10.17504/protocols.io.rm7vz9qbxgx1/v1>



Yang Wang¹

¹Zhejiang University

VaBA



Anonymous

Create & collaborate more with a free account

Edit and publish protocols, collaborate in communities, share insights through comments, and track progress with run records.

Create free account

OPEN  ACCESS



DOI: <https://dx.doi.org/10.17504/protocols.io.rm7vz9qbxgx1/v1>

Protocol Citation: Yang Wang 2025. Using VaBA web app. **protocols.io**

<https://dx.doi.org/10.17504/protocols.io.rm7vz9qbxgx1/v1>

License: This is an open access protocol distributed under the terms of the **Creative Commons Attribution License**, which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited

Protocol status: In development

We are still developing and optimizing this protocol

Created: October 16, 2025

Last Modified: October 16, 2025

Protocol Integer ID: 229950

Keywords: behavior analysis, annotation-free, vaba web app, using vaba web app user guide, vaba web app user guide, user guide

Funders Acknowledgements:

Yang Wang

Abstract

User Guide for VaBA Web App: <https://huggingface.co/spaces/zju-bmi-lab/VaBA>



Experiment Setup

40s

1 Project Configuration

1.1 Choice 1: Use Example Demo Videos

10s

Choice **1** : Use Example Demo Videos ▼

☰ Example datasets

Social Mice Social Rats CalMS21

Select any demo dataset

1.2 Choice 2: Upload Video(s)

Choice **2** : Upload Video(s) ▼

Upload Link

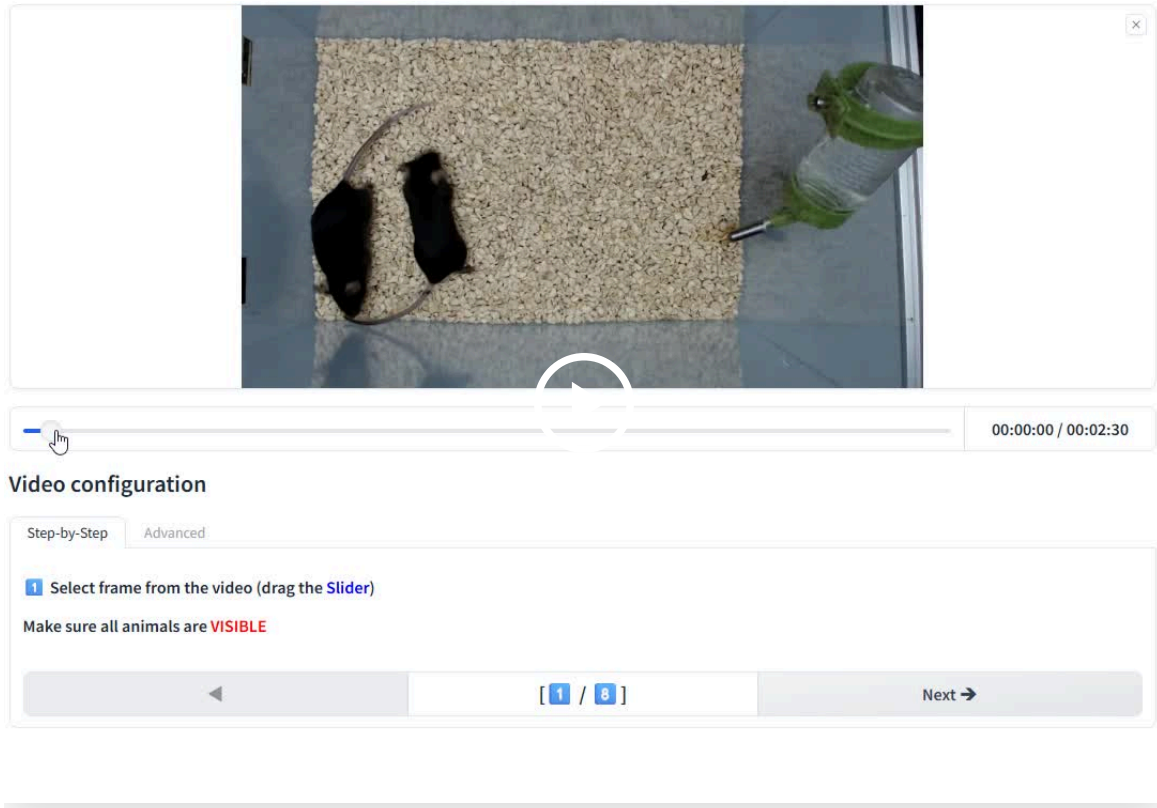
Hugging Face Datasets and Zenodo are supported

 Upload File(s)

Input the link of the dataset you have uploaded to Hugging Face Datasets or Zenodo, click Upload File(s)

2 Video Configuration

30s



Video configuration

Step-by-Step Advanced

1 Select frame from the video (drag the Slider)

Make sure all animals are **VISIBLE**

[1 / 8] Next →

Behavior Measurement

5m

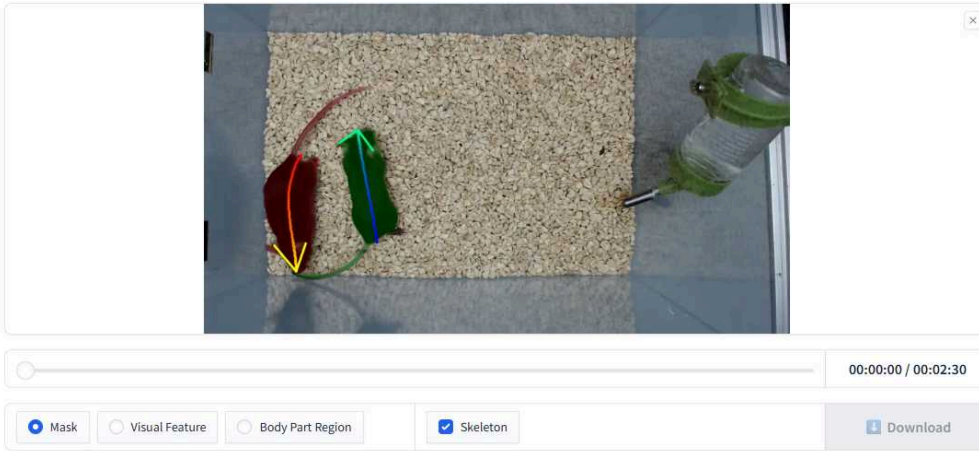
3 Automated Behavior Measurement

5m

```
Behavior Measurement
- Animal Identification: Processing Videos [1 / 1]
  - Tracking [954 / 1367]
- Body Part Estimation
  - Fitting PCA (once per project) ...
  - Extracting Visual Features ...
  - Fitting GMM (once per project) ...
  - Estimating Body Parts ...
  - Estimating Keypoint Skeletons ... - 0.0%
```

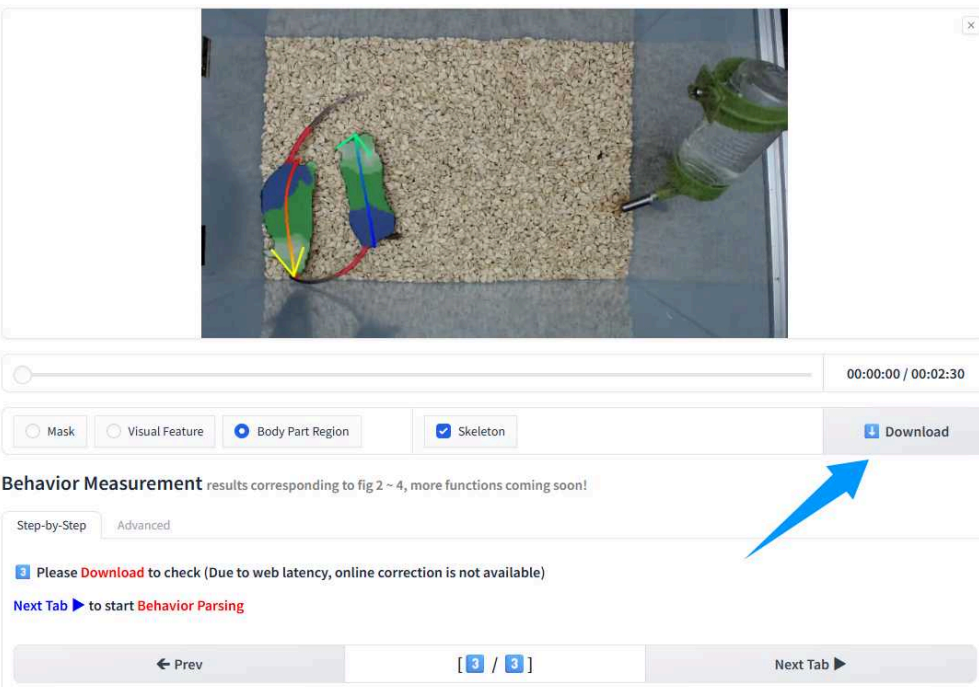
Waiting for 5 minutes

4 Result Display



Mask

5 Identity Check



Download to check

Behavior Parsing

1m

6 Automated Behavior Parsing

```

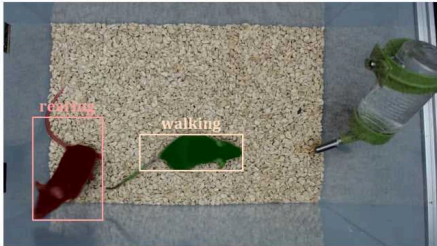
Behavior Parsing
- Reading VaBA Annos: 100%|██████████| 1/1 [00:00<00:00, 8.68it/s]
- Dividing States ...
- Analyzing States ...
- Drawing Results ... - 0.0%
    
```

Waiting for 1 minutes

7 Result Display

Uploaded Video Files
social_mice.mp4

Behavior ID	Start	End
1	24	29
2	117	130
3	141	143
4	207	217
5	251	253
6	293	299
7	309	324
8	402	409
9	422	431
10	620	639
11	653	665
12	684	692



00:00:02 / 00:02:30

Behavior Parsing results corresponding to fig 5 - 6, more functions coming soon!

Select behavior state
rearing

Prev Detection

Play / Pause

Next Detection

Download Video

Hint
Detection [1 / 30]

Rearing