

Instruction for using the signature collecting tool

(This instruction can be downloaded as [pdf](#))

Supported Platform

Desktop browser with mouse events, Andoid/iOS devices with touch events.

Other pointer events like stylus or pens currently are not supported (e.g., Surface)

Go to <https://musicai.github.io/SV> . You may try to draw on the canva to see if your browser is supported.



Steps of using the tool

Step 1: Input the passphrase posted on Moodle.

Step 2: Select to submit your genuin signatures or to imitate others' signatures.

Collect Data for Simple Signature Verification

To prevent abuse, input the passphrase posted on Moodle.

Passphrase...

.....

Create your genuine signature or forge others'.

GENUINE

FORGED

Fill in your info below for authentication

Your Surname, First name...

Zh|

JI, ZHUO RAN

SUN, JIAN ZHI

Zhang, Kai

ZHANG, YING

ZHOU, HUIZHUO

ZHU, DANLEI

Zhu, Yan



To submit genuine signatures (step 3 ~ 8):

Step 3: Input your surname and first name.

If the passphrase is correct, you can select from the auto-completion results. Note the name should be exactly the same as in your records on Moodle.

Step 4: If the name is correct, you can click the info button to see the number of signatures you already collected.

Optional label...

en



GET INFO OF YOUR DATASET

41 signatures, 34 genuine.

Step 5: Draw your signature on the box below. It may be easier to sign on the screen tablets or phones using fingers.

Step 6: Fill in your personal information (student ID and Assignment 1 score) and the optional label.

Note that your name, student ID and score should be correct (these secret information is used for authentication). If you have different versions of signatures, you may need the optional labels to distinguish.

Fill in your info below for authentication

Your Surname, First name...

Wu, Yijie

Student ID...

1111111111

Assignment 1 Score...

10

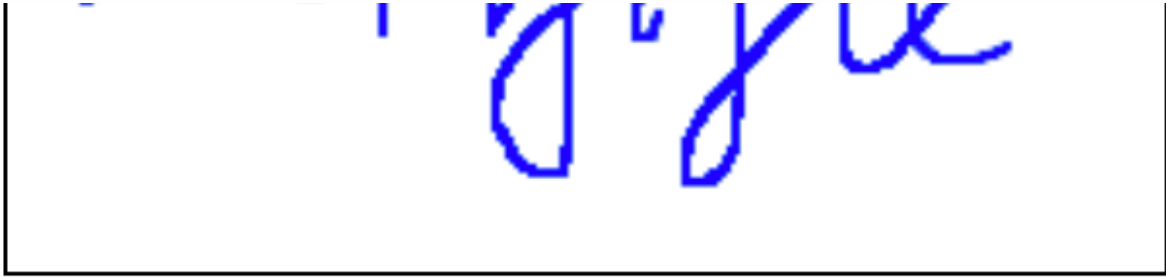
Optional label...

en



UPLOAD GENUINE SIGNATURE

Wu Yijie



CLEAR CANVAS

Saved

0



SAVE SIGNATURES TO ZIP

Step 7: Click the upload button to submit your signature.

After successful upload, you can see the number on the badge increases by one. Then you can safely clear the canvas and draw another new one. The uploaded signatures will be saved temporarily before you leave the page.

Step 8: Save all signatures in one session to a zip file.

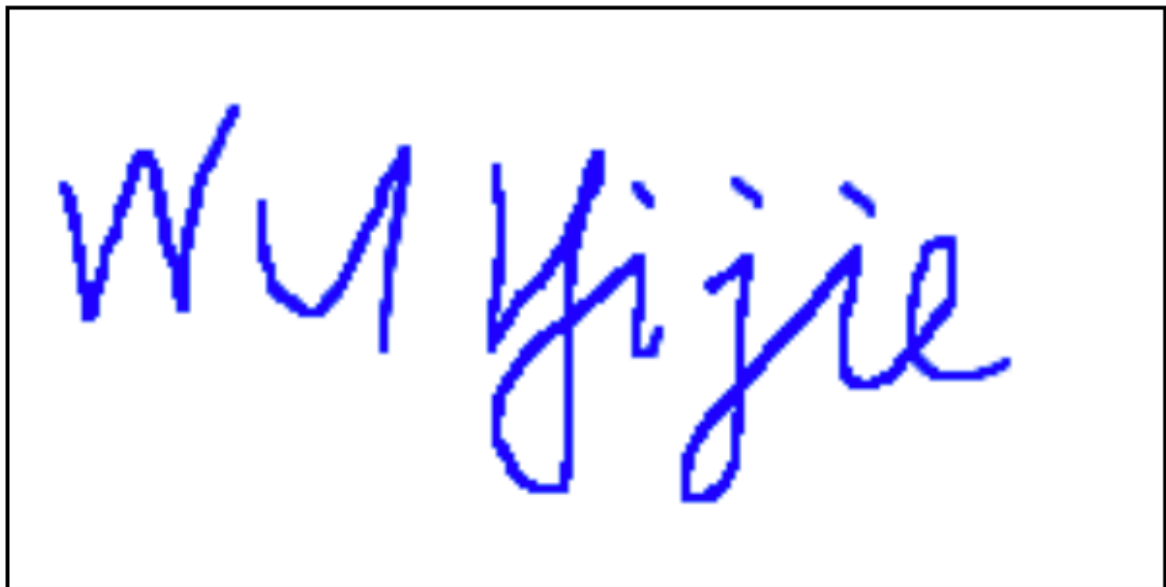
The zip file also contains a sequence of strokes (arrays of (x, y) coordinates), through which you may to experiment the time dependency aspect of your signatures

Optional label...

en



Genuine signature submitted.



CLEAR CANVAS

Saved

1



SAVE SIGNATURES TO ZIP

Recently, we add a download button next to the info button for you to download all uploaded data (with .csv files containing labels and timestamps). These files are updated on an hourly basis (later we may also include normalized data, currently you can use [sample code](#) for image processing and data normalization)

Assignment 1 Score...

10

Optional label...



GET ALL SIGNATURES

To submit forged signatures (step 9 ~ 11):

Step 9: Switch to the `forged` tab, and input the target name (using auto-completion again).

Step 10: Click the download button (next to the upload button).

If your target already upload the genuine signature, it will be displayed below for you to imitate.

GENUINE

FORGED

Select a target and download signature to imitate (using auto-completion!)

Target's Surname, First Name...

Zhang Kai

张凯



GET SIGNATURE

Target signature downloaded!

A large, empty rectangular box with a black border, intended for drawing a forged signature.

Step 11: Draw the forged signature in the box below, click the upload button to submit.

Note that the number on the badge won't change, and you will not be able to download these signatures. You can ask friends to pick you as target and later on you will be able to download these forged signatures for training.

张凯



Forged signature submitted.

张凯



CLEAR CANVAS

Saved

1

Q & A

This section is continuously updated.

Q: Can I remove part of the uploaded data?

A: You can use the label and timestamp to select the training data.

Q: What should I do if the canvas drawing does not work?

A: Try to switch browsers first if you find troubles using the tool (Chrome and Firefox are recommended). Also make sure you can access Google services, otherwise you may need VPN (especially when you are in mainland China).

Q: Can I use other tool to collect the data?

A: Sure. We provide this tool just to make it easy to collect forged signatures from your friends. If you prefer scanning/taking photo of signatures on the paper, you may need to preprocess the data on your own.

Q: What is in the zip file after I download all signatures?

A: All the `png` and `json` files uploaded will be placed under the directory `original/`, and `png.csv` and `json.csv` contains meta info of the dataset such as `signature_id`, `label`, `time_stamp`, `type` (genuine or forged), etc. For genuine signatures, `label` may be empty if you did not specify when uploaded them. For forged signature, `label` is the `signature_id` of referenced genuine signature. Invalid `signature_id` like `e3b0c442` and `eb045d78` just stand for empty signatures (the imposters may randomly draw something without downloading your genuine signature for reference).

You are welcome to email me if you have further questions or other suggestions.