# Instructions for interface.py on windows:

We have tested this installation method on Windows, but it should work on Linux too. If there are any problems please contact olivier.stam@student.uva.nl

Before starting it is important to have python (3.11 is recommended) installed on your device and pip.

To download python follow this link:

https://www.python.org/downloads/

To download pip if you haven’t already go to this site:

https://www.geeksforgeeks.org/how-to-install-pip-on-windows/

* Go to your command prompt:

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* Then go to your repository (we recommend just dragging the entire file to your desktop for easy access)

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* Then type: ‘pip install -r .\requirements.txt’
* When that is finished without errors type: python interface.py, this might take a while the first time!
* If there are errors repeat the previous step.

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* Then type this into your browser: <http://127.0.0.1:5000> or if your output says it is running on a different location use that.

# Interface.py usage:

* Make sure to choose a non-preprocessed excel file
* You must select either a date or check the process all dates box.
* Then choose between Exact or Grouped mode. Exact mode will predict the exact occupancy and Grouped will divide the predictions between 1-2 and 3+, which will be more accurate.
* WATCH OUT! Sometimes when the file is too big Grouped runs out of memory, we strongly recommend either restarting the app or running it again but then for a specific date. In our tests we found restarting the application fixes the problem.
* Process all dates will take a while to run, depending on your hardware it should take between 5-15 seconds per month of data.
* When the application doesn’t seem to work, please run the instruction steps for starting the application again.
* If you select a date that’s not within the file, you’ll get an error message ‘ValueError’, please just go back to the main page and select another day

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After you ran this you’ll have the option to download all the facts within the summary as a CSV file by simply clicking the CSV button.

# Interface\_notebook.ipynb usage:

When using the notebook please only change the code in the first cell. In the third code cell a function to see all the available dates can be commented out or uncommented depending whether you want to see it.

Please provide a file path and a date you want to process. After that choose between the occupancy estimation modes, simply comment the mode you don’t want to use out.

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Description automatically generatedNow just run all the code.

You will encounter an error message, however, this won’t affect the code and you can simply ignore it.