



## PyICS

[ca.py \(https://canvas.uva.nl/courses/42439/files/9869939?wrap=1\)](https://canvas.uva.nl/courses/42439/files/9869939?wrap=1)    
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[pyics.tar.gz \(https://canvas.uva.nl/courses/42439/files/9869970/download?wrap=1\)](https://canvas.uva.nl/courses/42439/files/9869970/download?wrap=1)    
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This archive contains the framework built for this course which allows you to easily create, visualize and test your models.

You should extract this archive to the same directory as your models are in, e.g.:

```
$ ls random_walker/  
pyics/  
ca.py
```

## Template for parsing csv with python + matplotlib

[draw\\_csv.py \(https://canvas.uva.nl/courses/42439/files/9869997/download?wrap=1\)](https://canvas.uva.nl/courses/42439/files/9869997/download?wrap=1)    
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The attached python file will read a csv file as created by the parameter sweeps, and plot it using matplotlib.

This is intended as a template for students who want to use Python to analyze their results. Alternatives are programs such as Excel or gnuplot.

Also an example on plotting with Matplotlib:

[matplotlib\\_example.py \(https://canvas.uva.nl/courses/42439/files/9869978/download?wrap=1\)](https://canvas.uva.nl/courses/42439/files/9869978/download?wrap=1)    
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## Wolfram classes per rule

[rule\\_class\\_wolfram.csv \(https://canvas.uva.nl/courses/42439/files/9869940/download?wrap=1\)](https://canvas.uva.nl/courses/42439/files/9869940/download?wrap=1)    
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This file contains one integer 1-4 per line, 255 lines. The number on line i (counting from 0) is the wolfram class for rule i, which I gathered once from wolframalpha.com.

