

# Automation with pythontex

Arne Küderle  
@AKuederle

# pythonlatex

- Run python code in your LaTeX documents
- Available in all major Tex - Distributions

<https://github.com/gpoore/pythontex>

```
1  # script.py
2
3  import pickle
4
5  a = 1
6  b = 'a string'
7
8  save = {'a': a, 'b': b}
9  pickle.dump(save, open('vars.pkl', 'wb'))
10
```

```
1 \documentclass[11pt]{article}
2 \usepackage[makestderr]{pythontex}
3
4 \begin{pycode}
5 import pickle
6
7 vars = pickle.load(open('vars.pkl', 'rb'))
8 \end{pycode}
9
10 \begin{document}
11 \section{My report}
12
13 These are the results:\\
14 a = \py{vars['a']} \\
15 b = \py{vars['b']}
16 \end{document}
```

# 1 My report

These are the results:

$a = 1$

$b = \text{a string}$

# Whats Next?

- Use a database?
- Use sympy?
- Make a function/ a module?
- Store metadata of figures or tables?
- Make it work with nbconvert?

Thank You!