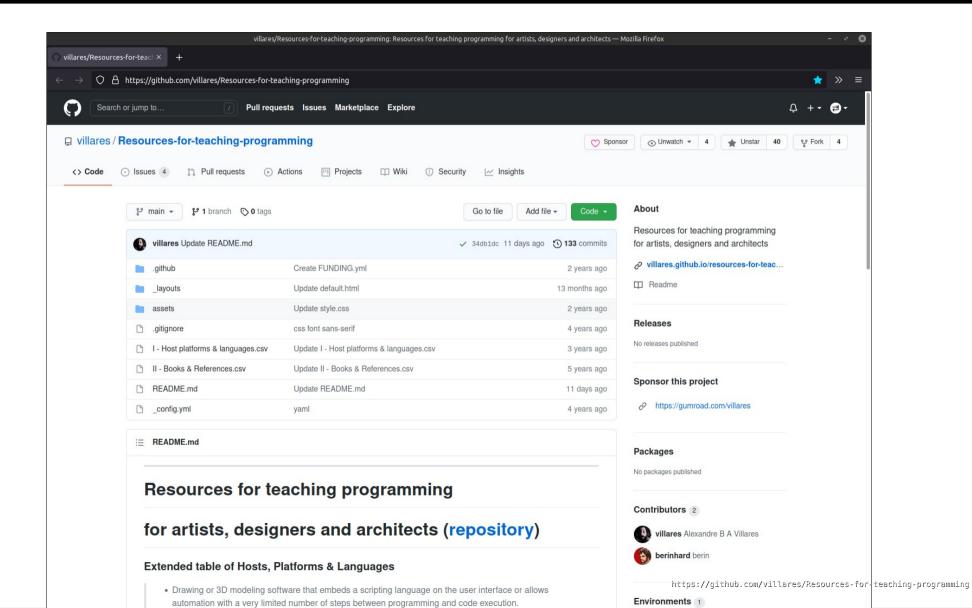
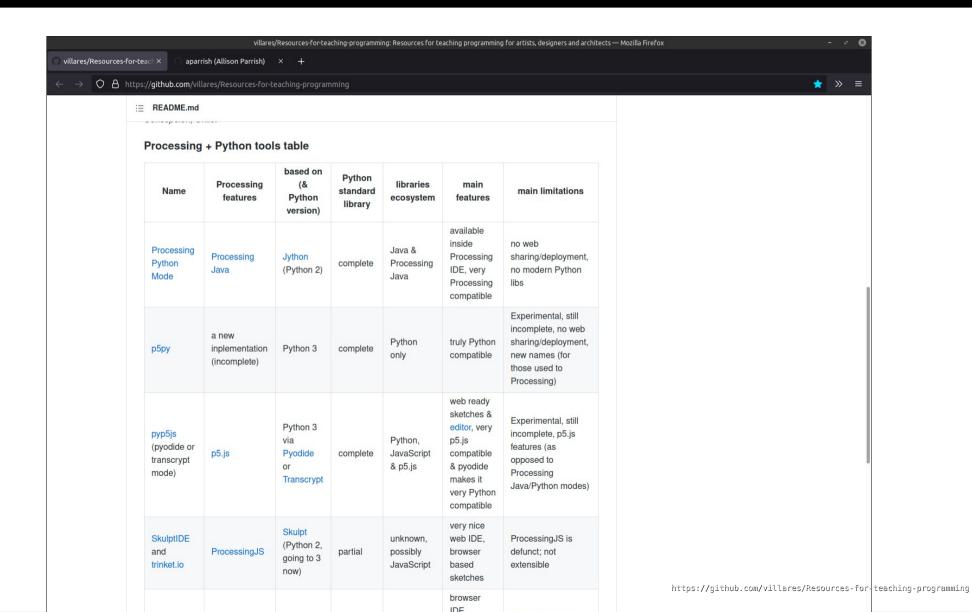
thonny + py5
a python 3 environment for processing

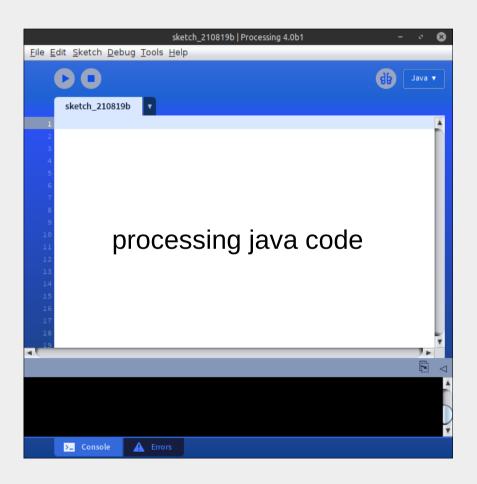
./processing_+_python_ecosystem

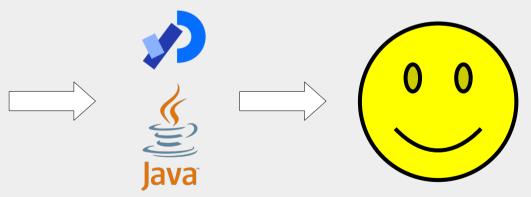
processing + py5 ecosystem



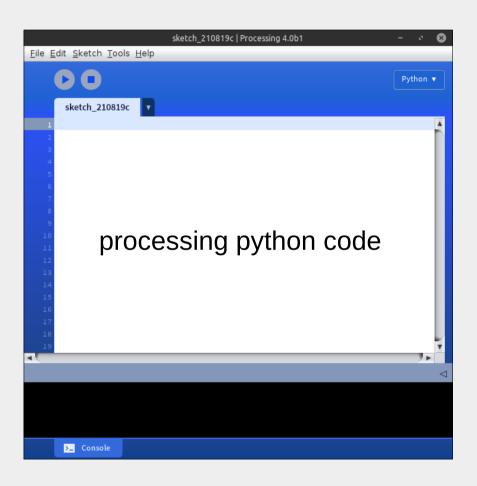


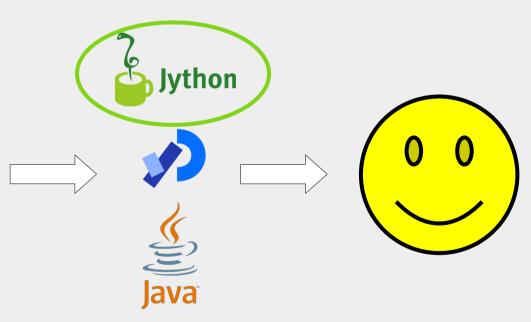












```
./processing_+_python_ecosystem/processing_python
```

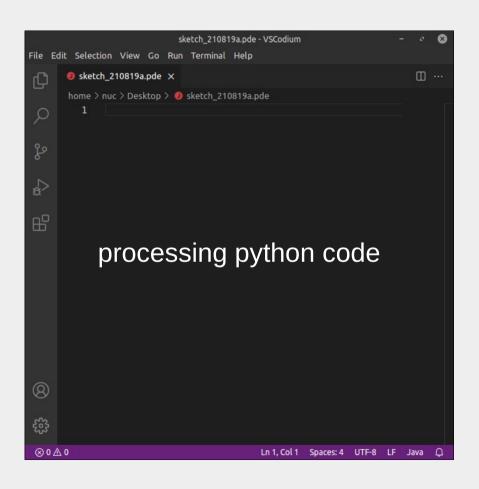
jython

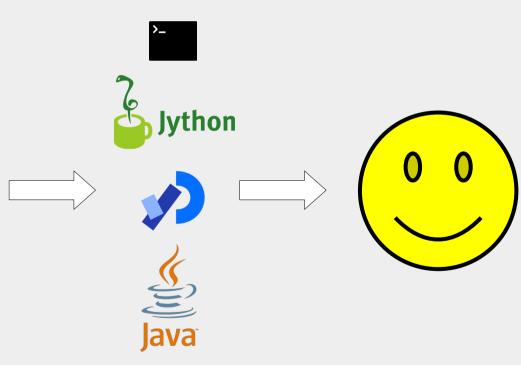
- * is not cpython (reference implementation)
- * supports python 2.7
- * does not support 3rd-party python libraries with c extensions
- * hence "python mode" for processing (mrfeinberg.com)





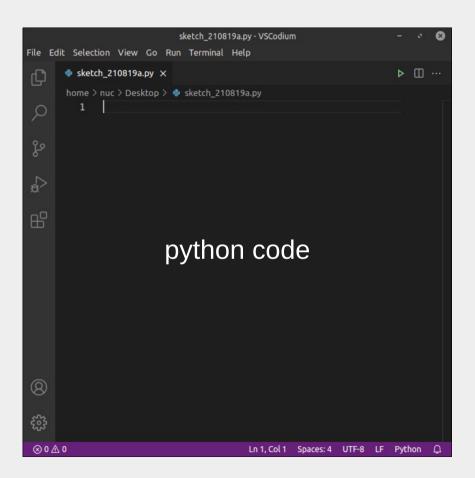


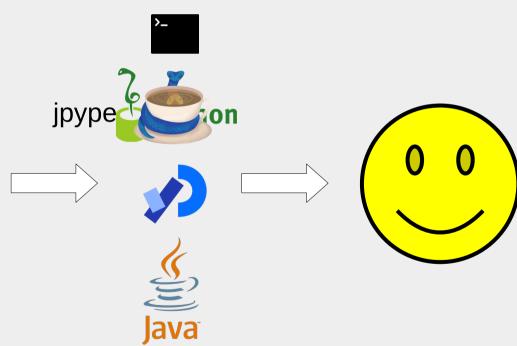




py5



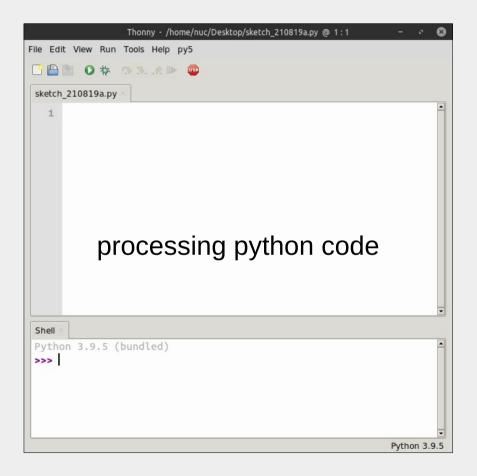


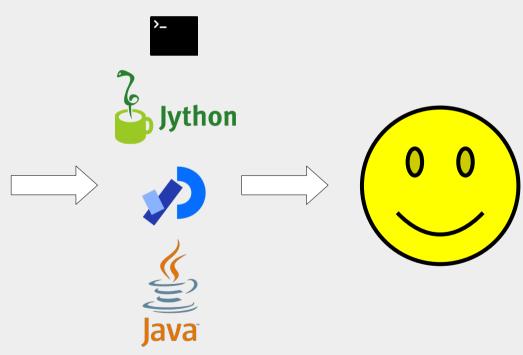


jpype

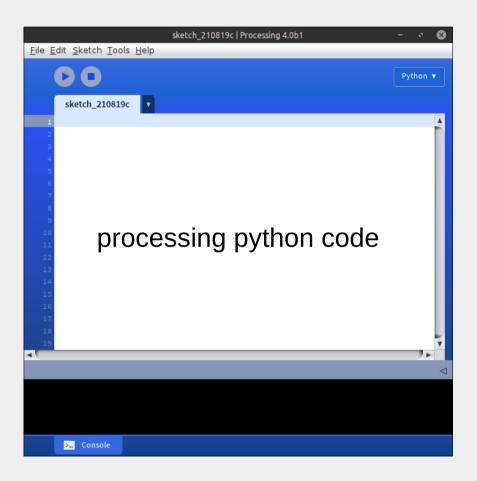
- * provides full access to java libraries from within cpython
- * supports python 3
- * supports 3rd-party python libraries with c extensions





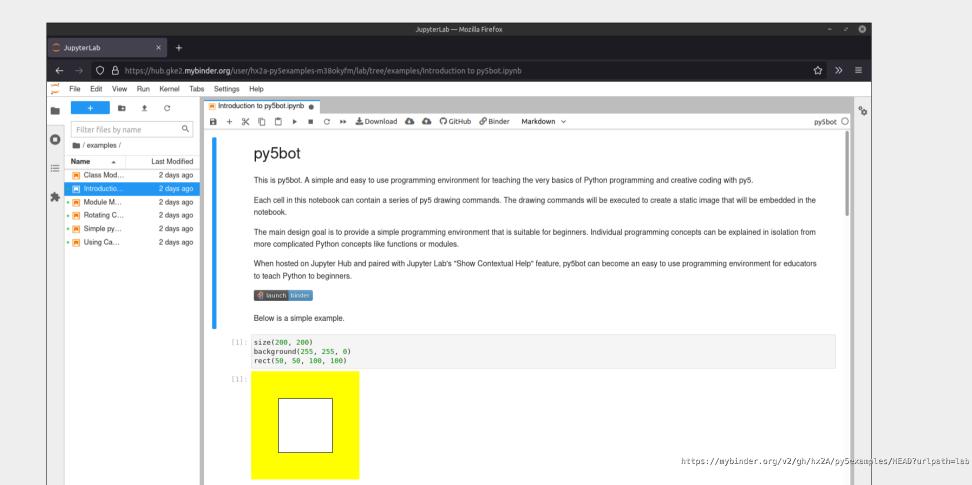












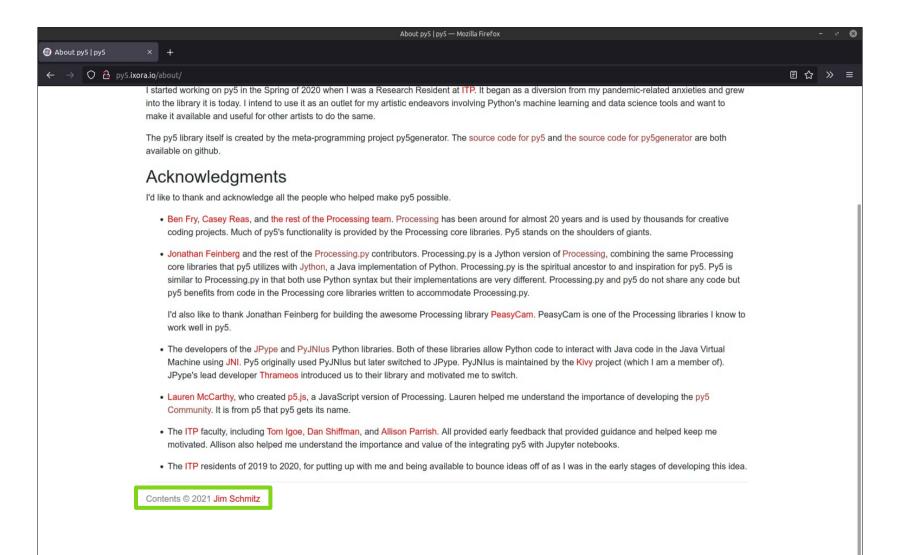
py5

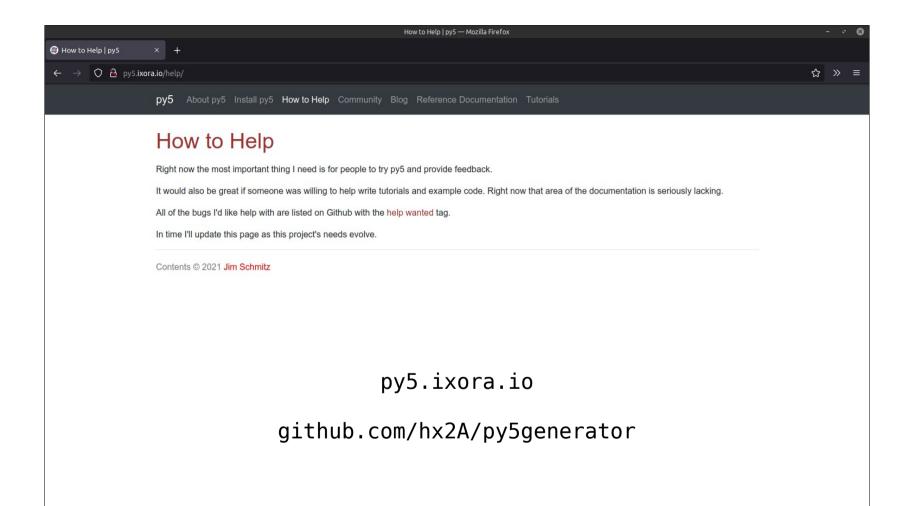
processing.py (processing python mode) is the spiritual ancestor to and inspiration for py5

py5 is similar to processing python mode in that both use python syntax, but their implementations are very different; they do not share any code, but py5 benefits from code in the processing core libraries written to accommodate processing python mode

"my goal is to create a new version of processing that fits into the larger python ecosystem. python syntax is a byproduct of that, but it isn't the core goal. this also isn't an attempt to replace or compete with any other version of processing. py5 isn't and can't be a drop-in replacement for processing.py, even without the camel case / snake case differences. i made different design choices in pursuit of a different goal, resulting in different libraries that work differently"
--jim schmitz

numpy arrays to adjust pixels (np_pixels); matplotlib charts or pil images to py5image objects (convert_image); built in support for line_profiler for performance tuning; ...

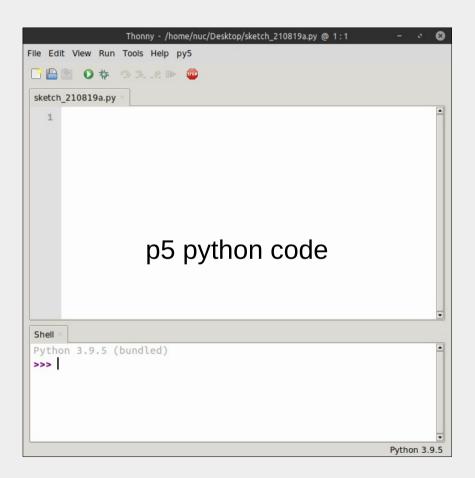


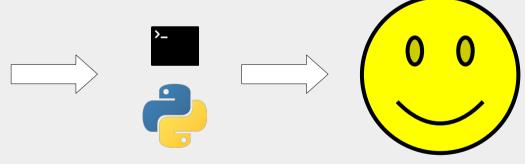


p5

p5(py)







```
./processing_+_python_ecosystem/p5
```

```
p5
```

- * python interpreter (reference implementation, cpython)
- * p5 is a native python **port** of the processing api
- * p5.readthedocs.io

./session_outline

session outline

./session_outline/session_resources

github.com/tabreturn/cc-fest-py5

session outline

- * mybinder
- * thonny
 - * setting up thonny and thonny-py5mode plugin
 - * py5 examples
- * q & a

./session_outline/session_resources

github.com/tabreturn/cc-fest-py5

./end

end of slides