Python
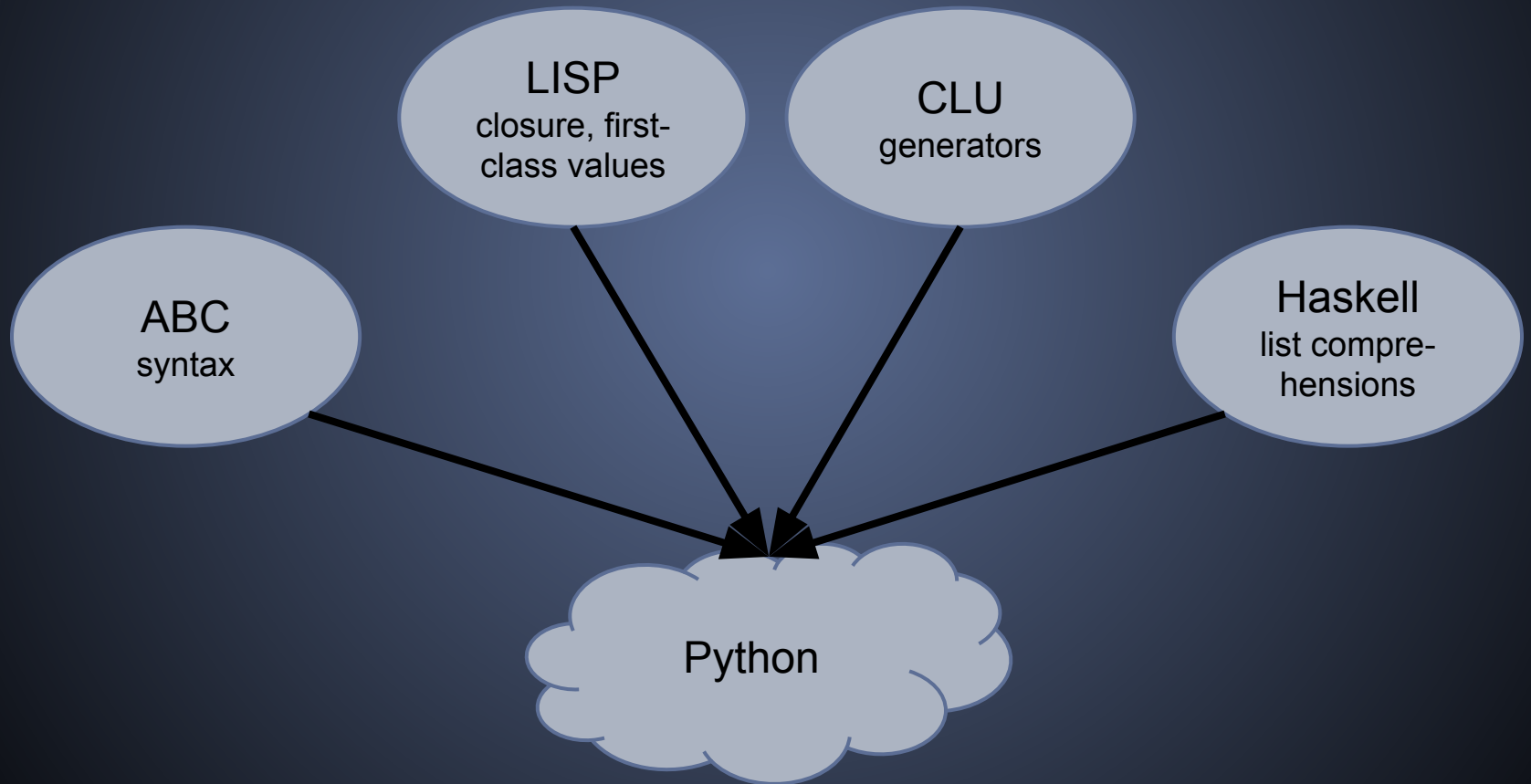
CSC 330 Group F

Python

"There should be one-- and preferably only one --obvious way to do it"
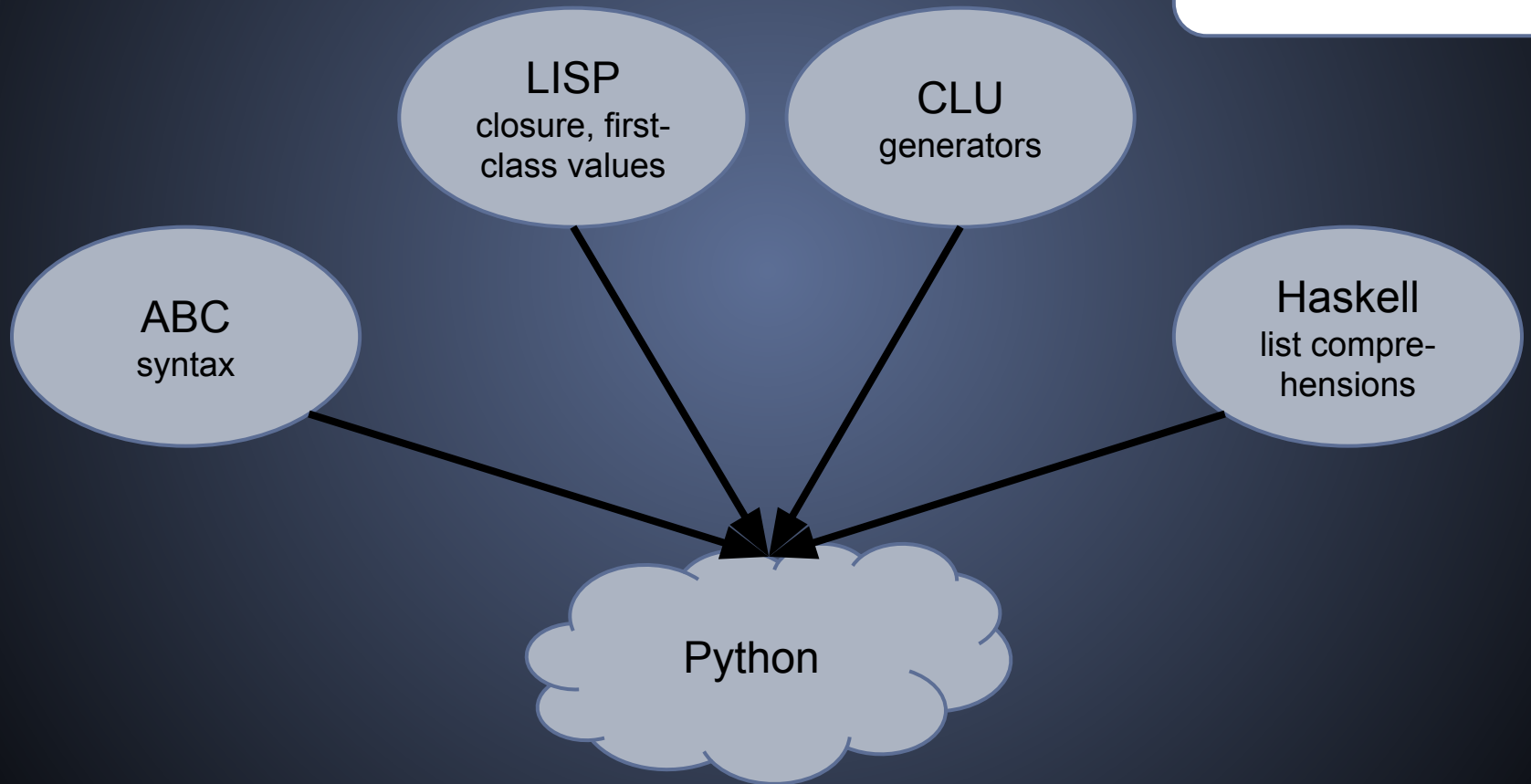
History

History

LISP
closure, first-class values

CLU
generators

ABC
syntax

Haskell
list compre-hensions

```python
def block(): # startblock
    statement_one()
    statement_two()
# endblock
outer_statement()
```
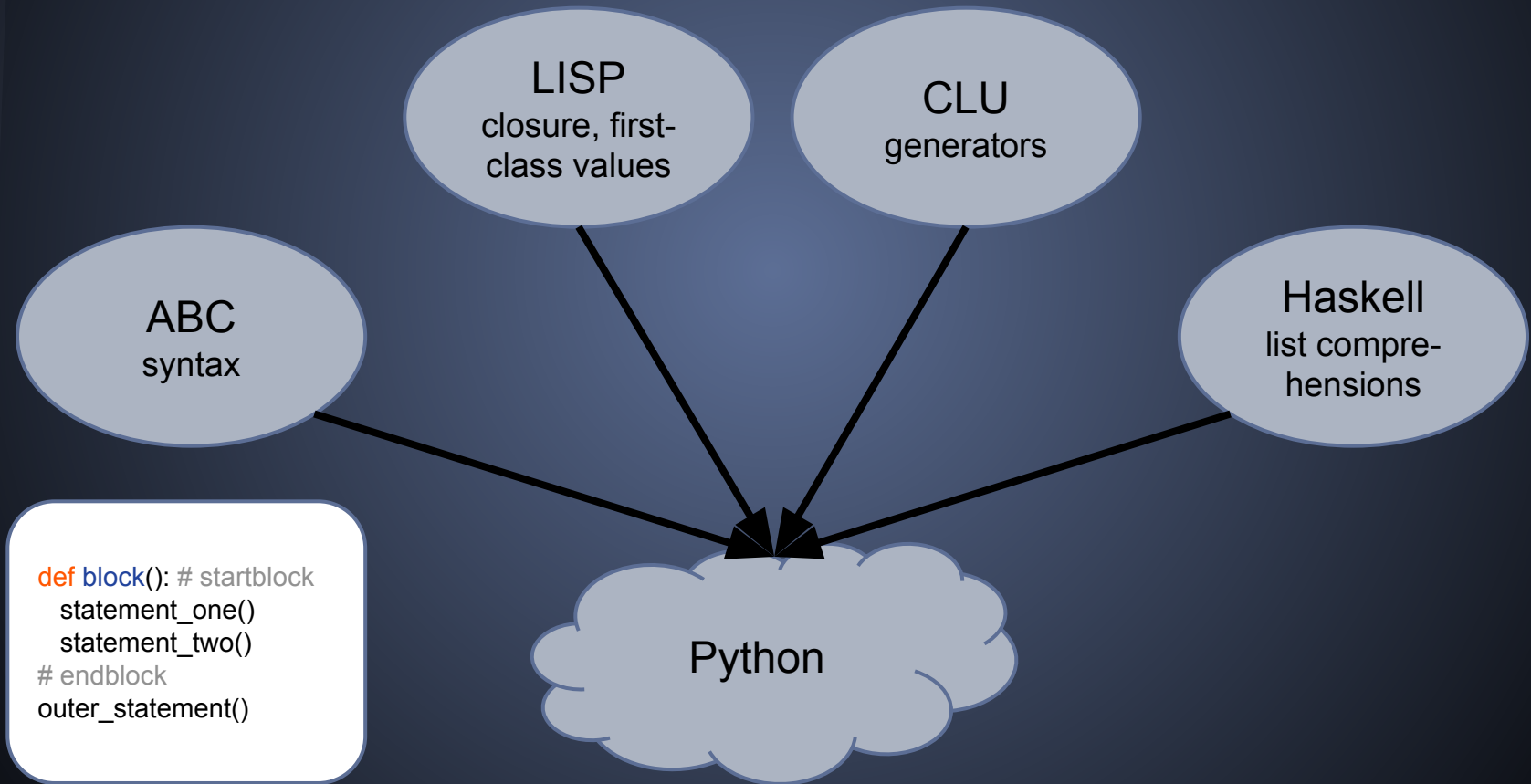
Python

History

```
def upperString(s):
    return [toUpper(c) for c in s]
```

LISP
closure, first-class values

CLU
generators

ABC
syntax

Haskell
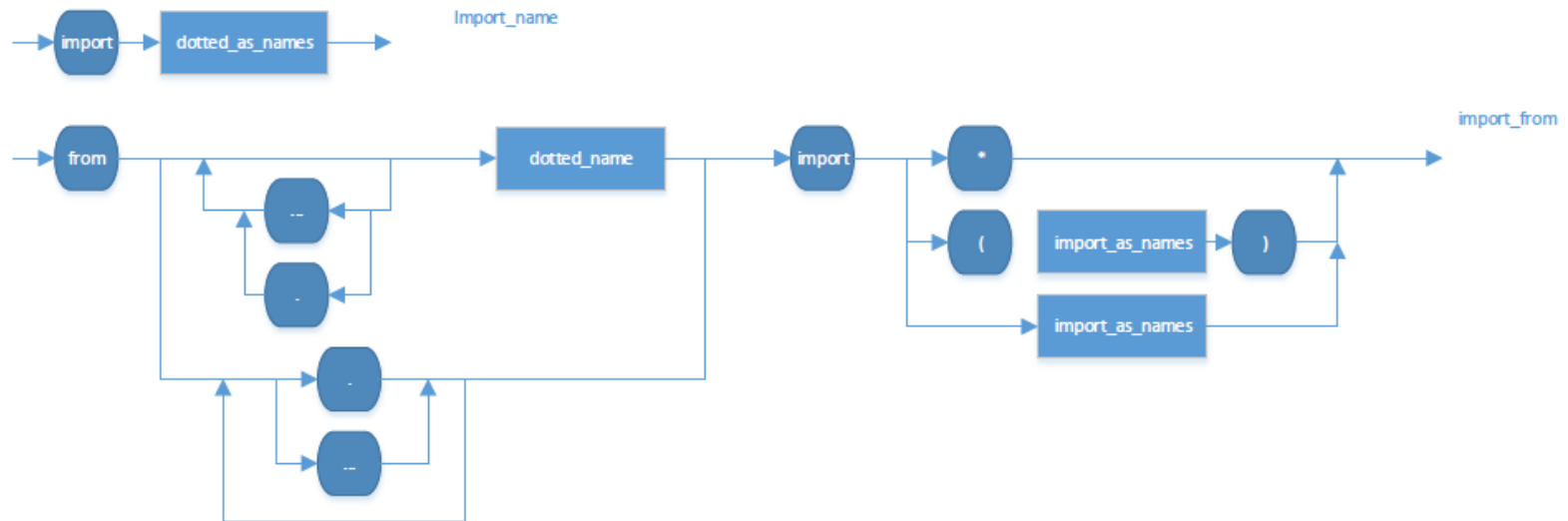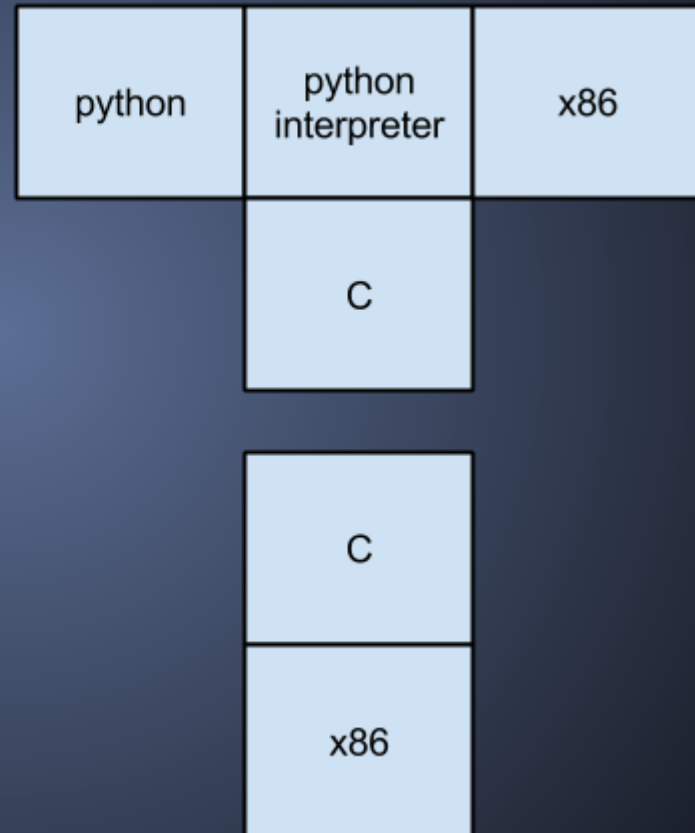list compre-hensions
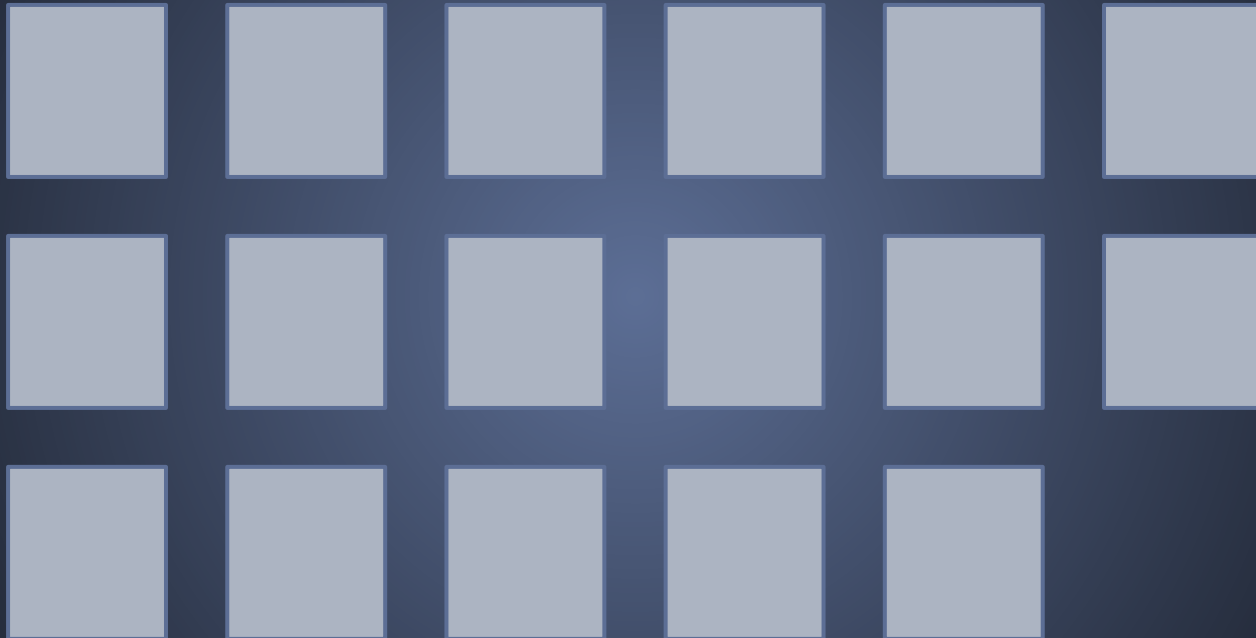
Python

Grammar

Grammar

```
...
import_name: 'import' dotted_as_names
import_from: ('from' ('.'* dotted_name | '.'+)
             'import' ('*' | '(' import_as_names ')' | import_as_names))
...
```

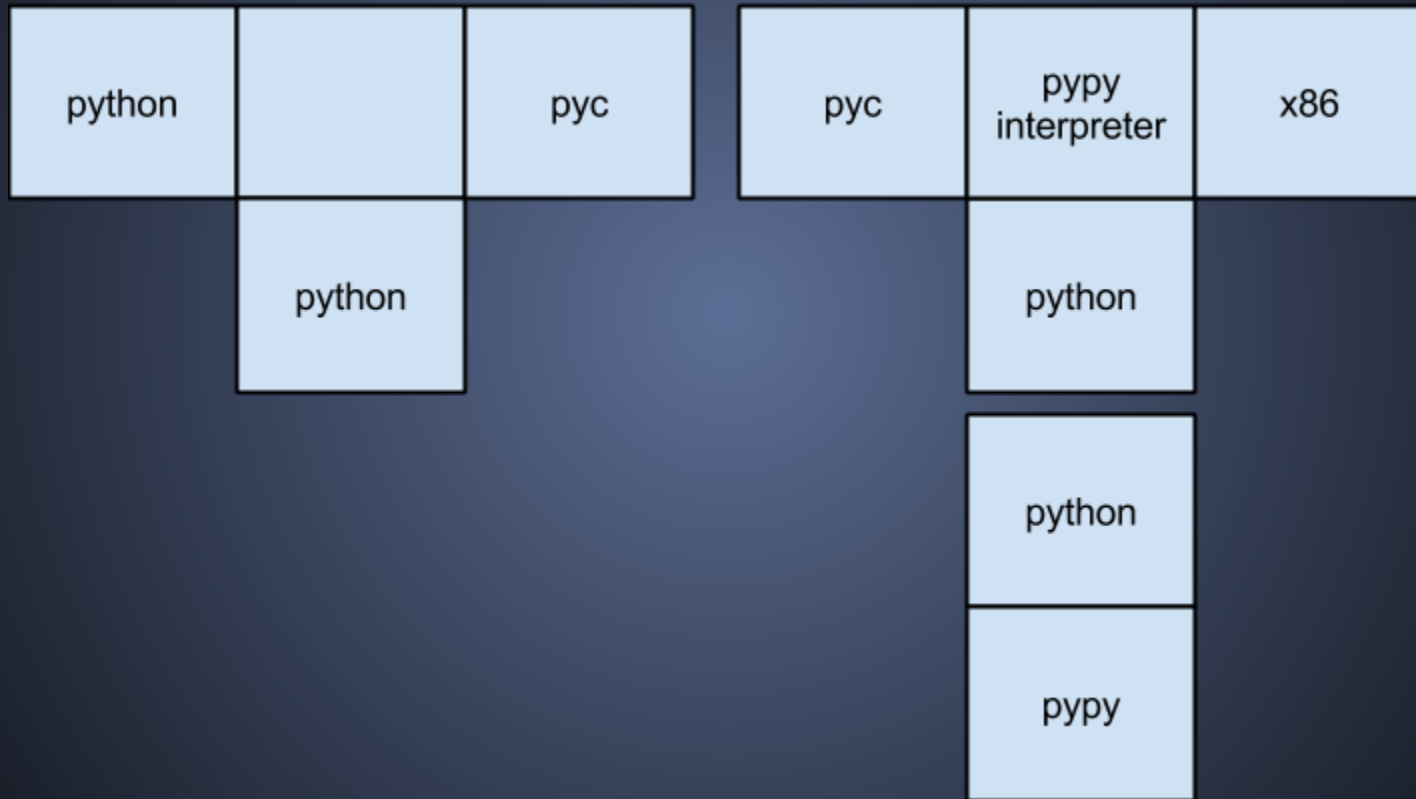# Grammar
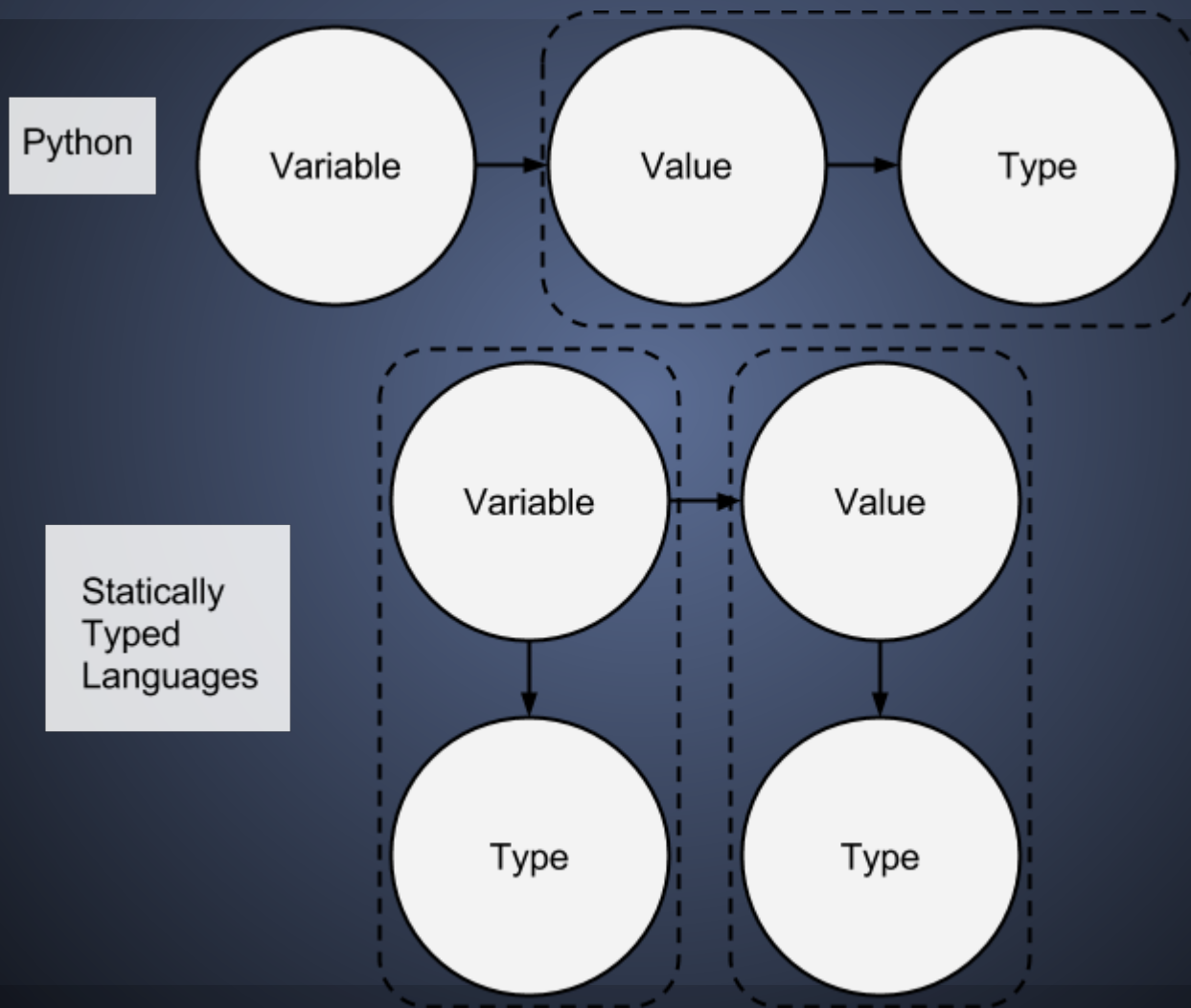
T-Diagram

Other Pythons

PyPy

Jython

IronPython

Stackless

PyPy T-Diagram

Types

Types

"In general, I think type checking should be structural, so two types are considered equal if they look the same (have the same methods with the same signatures, etc.)."

~ Benevolent Dictator for Life, Guido Van Russell

Any Questions?