replacing import With accio in CPython

>>> import sys >>> accio sys SyntaxError

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why?

we'll learn: what is a statement

we'll learn: what is a SyntaxError

we'll learn: how does Python know the difference?

we'll learn: bootstrapping

replacing import with accio

import is a statement

statements are defined in the Grammar file

import_stmt: import_name | import_from

import_name: 'import' dotted_as_names

first attempt

import_name: 'accio' dotted_as_names

\$ make

import sys

SyntaxError: invalid syntax

OOPS

second attempt

\$ sed 's/ import/accio'

\$ make

accio sys

SyntaxError: invalid syntax

bootstrapping !

third attempt

```
import name:
   'import'
   dotted as names
   'accio'
   dotted as names
```

\$ make

\$PATH

import_name: 'accio' dotted_as_names

\$ sed 's/ import/accio'

\$ make

links

- Grammar https://docs.python.org/2/reference/grammar.html
- EBNF http://en.wikipedia.org/wiki/
 Extended Backus%E2%80%93Naur Form
- Adding a statement http://eli.thegreenplace.net/2010/06/30/python-internals-adding-a-new-statement-to-python/

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