

Python Regrets

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- Stuff that's already being phased out
- string exceptions
- `sys.exc_type` etc. (use `sys.exc_info()`)
- `int/int` returning `int`
- `apply()` (use `f(*args, **kwds)`)
- `coerce()` (no longer needed)
- 3-way compare? (but... comparing lists)



Lexical details

- continued lines or strings with \
 - use (...) continuation and/or string literal concatenation
- if expression: statement
 - put statement on next line
- tabs?
 - require all spaces
 - or very restricted use of tabs (not mixed)

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Lambda and functional stuff

- I've never liked lambda
 - crippled (only one expression)
 - confusing (no argument list parentheses)
 - can use a local function instead
- `map()`, `filter()`
 - using a Python function here is slow
 - list comprehensions do the same thing better
- `reduce()`
 - nobody uses it, few understand it
 - a for loop is clearer & (usually) faster

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print, str() and repr()

- drop ``x`` for `repr(x)`
 - ``` is hard to read in many fonts
 - publication process turns `'s'` into ``s``
- do we really need both `str()` and `repr()`?
 - mostly intended to be able to special-case "print x" when x is a string
 - still not enough; need `nice()` that's a hybrid
- `print` should've been a function
 - `write(x, y, z)`
 - `writeln(x, y, z)`
 - spaces between items controlled by keyword arg

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Builtins

- `intern()`, `id()`: put in `sys`
- `xrange()`: make `range()` return an iterator
- `buffer()`: must die (use `bytes`, PEP 296)
- `raw_input()`: use `sys.stdin.readline()`
- `input()`: use `eval(sys.stdin.readline())`
- `callable()`: just call it, already
- `execfile()`, `reload()`: use `exec()`
- `compile()`: put in `sys`

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Special cases for exec

- exec as a statement is not worth it
 - make it a function (again :-)
- perhaps shouldn't have locals(), globals(), vars()

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Restricted execution

- Too many bugs to be trusted
 - didn't get enough review, and never will
- Confusion btw. `__builtins__`, `__builtin__`
- But there's a useful idea somewhere...
 - Zope uses this

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Float to int conversion

- need more ways to convert float to int (round, truncate-towards-zero, floor, ceil)
- need differentiate to `__int__` which truncates and `__int__` which doesn't

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