

New Python 2.5

Features:

partial and Conditional Expressions

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Python 2.5

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- New features:
 - Partial Function Application
 - Conditional Expressions
 - Absolute and Relative Imports
 - The `with`: statement
 - ... (see AMK's "What's new in 2.5")

Partial Function Application

$$F(x, y, z) \rightarrow F(x)(y)(z)$$

$$F(x, y, z) \rightarrow F(z)(y)(x)$$

$$F(x, y, z) \rightarrow F(x)(y, z)$$

$$F(x, y, z) \rightarrow F(y, z)(x)$$

import functools

- partial
- wraps
- functools = "Functional" tools
+ "Function" tools
- maybe more in 2.6, ..., 3.0?
 - memoize?
 - deprecated?

partial

- Partially apply parameters to any callable
- No placeholder parameters (yet)

wraps

- “Helps you write well-behaved decorators”
- Makes decorated functions behave like the original function
- `F.__doc__`
- `F.__name__`
- But not `inspect.getargspec(f)`
 - :(

Conditional Expressions

- C++ ternary operator
 - $(x > 0) ? \text{“positive”} : \text{“zero or negative”}$
- Python
 - Before 2.5: ugly and uglier
 - After 2.5: use conditional expressions

Thank you