

Re: Feature request: subclassing FunctionType [Was: Some languageproposals]

Source: <http://coding.derkeiler.com/Archive/Python/comp.lang.python/2004-03/0298.html>

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To: python-list@python.org

"Michele Simionato" <michele.simionato@poste.it> wrote in message
news:95aa1afa.0403012224.506dd07c@posting.google.com...

> 1. Assuming all "for" loops and list comprehensions are replaced
> with Haskell bindings rules, what about backward compatibility
> problems? For instance: is there enough code relying on the loop
> variable being available outside the loop?

Guido has given things like the following as an intentional reason for the
current rule (and for for...else):

```
for item in seq:
    if acceptable(item): break
else:
    item = None
# item is now either the first acceptable item in seq or None
```

If you do not like the iteration var remaining bound, you can explicitly
delete it. If it is automatically deleted, constructions like the above
are rendered more difficult.

A list comp encapsulates a specialized for loop whose specific job is to
produce a list. It makes more sense to delete the binding automatically
there since a) there is no way, when seq is empty, to force a binding to
something, with else and b) the last item of the list is readily
available anyway as `result[-1]`.

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