Python's Attributes

Carl Friedrich Bolz, David Schneider Dynamische Programmiersprachen Heinrich-Heine-Universität Düsseldorf Sommersemester 2010

Reminder

a message send consists of two steps:

- lookup the message implementation
- ▶ activate (i.e. call) the method that was found in this way those are done in one step, not visible to the programmer

Attributes

```
in Python, those steps are separated in the language:
obj.method(argument_1, ..., argument_n)
is identical to:
m = obj.method
m(argument_1, ..., argument_n)
```

Bound methods

- ▶ The object m is called a bound method
- ▶ it can be called like a function
- it is bound to the object out of which it was read
- the bound method thus takes one less argument than the original method
- thus reading methods out of objects behave like object-attributes