

Caching Design Issue #2

Mutable Objects

- ◆ Let's say we have a class that extends **list**
- ◆ Our extension computes sums of items in the list
- ◆ And caches the sums to save recomputing it all the time
- ◆ What happens when the list changes?

Extending a List

- ◆ How about this? Will this work?

```
class BadSumList(list):  
    def __init__(self, *args, **kw):  
        super().__init__(*args, **kw)  
        self._sum = None  
    def sum(self):  
        if not self._sum:  
            self._sum = sum(self)  
        return self._sum
```