

8.10: PARSING LINES



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Usually when we are reading a file we want to do something to the lines other than just printing the whole line. Often we want to find the "interesting lines" and then *parse* the line to find some interesting *part* of the line. What if we wanted to print out the day of the week from those lines that start with "From "?

From stephen.marquard@uct.ac.za Sat Jan 5 09:14:16 2008

The `split` method is very effective when faced with this kind of problem. We can write a small program that looks for lines where the line starts with "From ", `split` those lines, and then print out the third word in the line:

```
fhand = open('mbox-short.txt')
for line in fhand:
    line = line.rstrip()
    if not line.startswith('From '): continue
    words = line.split()
    print(words[2])

# Code: http://www.py4e.com/code3/search5.py
```

Here we also use the contracted form of the `if` statement where we put the `continue` on the same line as the `if`. This contracted form of the `if` functions the same as if the `continue` were on the next line and indented.

The program produces the following output:

```
Sat
Fri
Fri
Fri
...
```

Later, we will learn increasingly sophisticated techniques for picking the lines to work on and how we pull those lines apart to find the exact bit of information we are looking for.