Comments on Command Line Apps (Project 1)

(1) dictionary (note English is one of the keys):

```python
languages = {
    "English" : "Hello, world",
    "French" : "Bonjour tout le monde",
    ...
}
```

(2) another example of replacing control flow with an expression:

```python
if __name__ == '__main__':
    lang = 'english' if len(argv) == 1 else argv[1]
    print(hello(lang))
```

The alternative is longer and (I think) slightly harder to follow:

```python
if __name__ == '__main__':
    if len(argv) == 1:
        lang = 'english'
    else:
        lang = argv[1]
    print(hello(lang))
```

When the if case and else case both do the same thing (assign to the same variable) consider a conditional expression

[Aside: functional programming, Backus '78, “right side vs left side”]

(3) parameters as local variables:

```python
def hello(x):
    x = x.capitalize()
    ...
```

What does this do? why does it work?

Example also shows an idiom for text processing
(4) style: check unusual cases first

```python
if x not in languages:
    return("Sorry, I don't speak {}".format(x))
return(languages[x])
```

Don’t need else

Benefit: main part of the function isn’t indented as far