

Extra stuff

Announcements

- Email me your top-down design
- Full **cryptoquote.py** program due next Saturday
- Quiz 4 is next Friday

Today's plan

- Extra vim
- Extra challenge for **cs21-quiz.py**
- **mastermind.py** (Plus some extra challenges)

Advanced vim

- Type a number, **n**, before a vim command to repeat the command **n** times.
 - e.g. '35j' brings you down 35 lines
- To move the cursor within a particular line, I like to use 'f', 'F', 't', and 'T' commands
- To customize vim, edit your **~/.vimrc** file

Two vim customizations

```
:imap fd <Esc>  
set rnu
```

- Put these in **~/.vimrc**
- The first lets you exit insert mode by typing 'fd' quickly.
- The second displays relative line numbers so you can easily jump to a particular line

Extra challenges

- **cs21-quiz.py**: put in support for multiple correct answers, e.g. “Python type for representing whole numbers” could be “int” or “integer”
- We might edit **glossary.txt** to accommodate this as follows:

```
...  
Python type for representing whole numbers:int,integer,Int,Integer  
...
```

Extra challenges

- Once you finish **mastermind.py** you can extend it in a number of ways:
 - Print instructions
 - Make sure guess has no repeated letters
 - Make sure user doesn't repeat a guess
 - Show a history of the user's guesses
 - Count the number of guesses it took
 - Write a summary of the game (number of guesses, history of guesses, etc.) to a log file
 - Give feedback in a more visual way. For instance if the word is 'party' and I guess 'tardy': t A R _ Y