CS21: INTRODUCTION TO COMPUTER SCIENCE

Prof. Mathieson
Fall 2018
Swarthmore College
Outline Oct 26:

• Continue TDD for word-guesser program
• Implement a few functions for word-guesser
• TDD for 9-letter-word program
• Next week: continue TDD and bottom-up implementation

Notes

• Lab 6 due Saturday night
• Ninja session tonight! 7-9pm in this room
• Office Hours today!! Friday 3-5pm
Lab 3 examples
(selected by graders)

DNA extensions (code not posted online)

• Francesco
• Theo
• Sarah
Lab 6 examples
(email me screenshots!)
Lab 6 circle examples

Aron

Helen
Lab 6 circle examples

Ilana
TDD example from my research
This code parses several different files to create a plot (next slide) of a specific gene involved in human diets.
Converting between lists and strings

• Convert a list to a string: `<string separator>.join(lst)`

```python
>>> lst = ['s','w','a','t','h','m','o','r','e']
>>> 
>>> ''.join(lst)
'swathmore'

>>> 
>>> '-'.join(lst)
's-w-a-t-h-m-o-r-e'
```

• Convert a string to a list: `list(<string>)`

```python
>>> string = 'swathmore'

>>> list(string)
['s', 'w', 'a', 't', 'h', 'm', 'o', 'r', 'e']
```
Handout 6 Function Ideas
* get guess.
* read dictionary
  - only 9 letters.
* correct
  - end the game
* display word in a board
  - board (empty)
  - put in word
  - randomness