

THIS WEEK IN CS AND STEM

- Google announces ear buds that have direct access to Google Assistant
 - <https://futurism.com/googles-new-earbuds-can-translate-40-languages-instantly-in-your-ear/>



RECAP OF LAST WEEK

- While loops
 - Lists
 - For loops
 - If/elif/else
 - Control flow
-
- Open `Lesson8+9_recap.ipynb`

DEFINING FUNCTIONS

- We've learned a lot of very valuable tools, however we've just been using python as a calculator thus far.
- Let's define functions that can be called again. Remember the steps to coding:
 1. **Identify the problem:** what do you need to do? What is being asked?
 2. **Find a solution:** research, read, formulate, write pseudo code either literally or in your mind.
 3. **Implement your solution, verify the result:** write a rudimentary code that gets the job done – even if it's messy at this stage. Try to double check your answer.
 4. **Improve efficiency:** go back and incrementally improve the efficiency of your code. This may be condensing variables, cutting lines, creating functions for repeated actions.
 5. **Improve aesthetics:** ensure legibility of your code, use variable names that make sense, make your code well commented

DEF FORMAT

```
def name(argument):  
    (some statements)  
    return (item)
```

The background is a blue gradient with decorative white circuit-like lines in the corners. The lines consist of straight segments and small circles, resembling a stylized electronic circuit board.

NO ASSIGNMENT THIS WEEK!

ASSIGNMENT #4 WILL BE GIVEN NEXT WEEK