# Grammatically Correct Gibberish

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## Our Goals

Randomly generate grammatically correct sentences

Simple sentences

Output the sentences one word at a time

Done through keyboard mashing.

Compare the differences and similarities of each implementation

eduroam-169-233-237-233:GCG shreyvalia\$ python GCGProgram.py



chrome

### Process

#### 1. Design algorithm

- a. Design a CFG for the grammar
- b. Can be imperative and functional

#### 2. Build a word base

- a. Create maps of different types of words
- b. Populate the word types with a set of words

#### 3. Get Codin'

a. Python, Java, Haskell.

Peter's Pick: "There is that airport pollution that is being relatively environmental."

## Python

**Pros of using this language:** 

Efficient and compact

High level syntax

Easy to input files

Good readability

Cons of using this language:

Hard to use global variables

New to Python

Hard to limit what shows up to

stdout.

Shrey's Selection: "Failures can initially emerge without such actually full whole law analyst."

## Java

**Pros of using this language:** 

High Level

Easy to debug

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Simple input

Cons of using this language:

Output

File size

Repetitive code

Ramin's Rhetoric: "Here are likely exam law that tell two never personal dad potatoes."

## Haskell

**Pros of using this language:** 

Concise

Fun

No null exceptions

Cons of using this language:

IO Monad

Scope Issues

No global variables

Jordan's Jumble: "There is his hopefully good legal ladder that necessarily makes against hopefully whole women."