Python
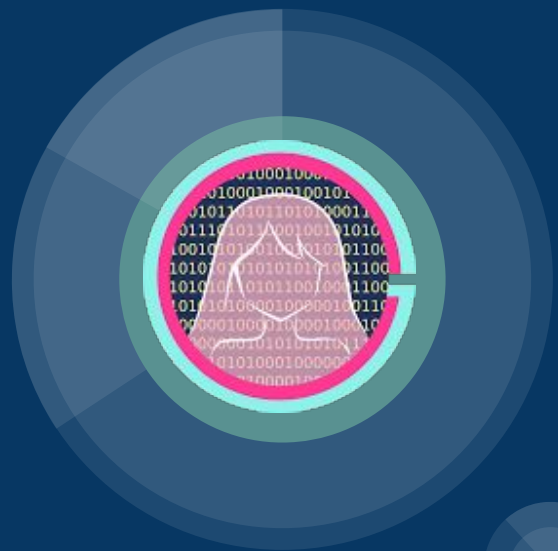# Data Structures

Code Girls 2020-21

Lists!

- Simpler Data Structures
  - Integers, floats
  - Strings
  - Boolean
- Today:
  - Lists
  - Arrays

Review!

- Simpler Data Structures
  - Integers, floats
  - Strings
  - Boolean

Lists

- Lists are used to store multiple items in a single variable.
  - They are exactly what you think they are
- Syntax:

  List_name = []

- Indexes

Lists: what can we do with them

- append() - Adds an element at the end of the list
- clear() - Removes all the elements from the list
- copy() - Returns a copy of the list
- count() - Returns the number of elements with the specified value
- extend() - Add the elements of a list (or any iterable), to the end of the current list
- index() -Returns the index of the first element with the specified value
- insert() - Adds an element at the specified position
- pop() - Removes the element at the specified position
- remove() - Removes the item with the specified value
- reverse() - Reverses the order of the list
- sort() - Sorts the list

Arrays

- Think lists embedded in lists

Arrays

1D Array

2D Array

3D Array

Let's do some practice application!

- We are going to revisit our code!

Acknowledgments

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