

Learn to Program With Python

Day 2: Building a Text
Adventure

This course uses unofficial curriculum created for Girl Develop It! Ottawa by Gail Carmichael.



<http://www.gailcarmichael.com>

Today's class is inspired by content from:

Adventures in Raspberry Pi

by Carrie Anne Philbin

The Python Game Book – Adventure Game

([http://thepythongamebook.com/
en/resources/people/jens_horst:part1step002](http://thepythongamebook.com/en/resources/people/jens_horst:part1step002))

How To Make Your Own Text Adventure On A Computer

([http://www.bluzeandmuse.com/final_site/
how_to.html](http://www.bluzeandmuse.com/final_site/how_to.html))

Access these slides online:

<http://gailcarmichael.com/learn-python>

TEXT ADVENTURES

Zork

The Game:

<http://www.web-adventures.org/cgi-bin/webfrotz?s=ZorkDungeon>

Command list:

http://zork.wikia.com/wiki/Command_List

BASIC USER INPUT

Strings

Text is stored in a program as a “string”, which is anything inside quotes.

```
"I'm a string!"
```

```
'Me too!'
```

```
'I'll cause an error'
```

```
"So will I"
```

```
"Don't forget "me"!"
```


Strings

Text is stored in a program as a “string”, which is anything inside quotes.

```
"""Triple quotes means
    all my white space and new lines
-
    no matter how weird
-
will
    be
    kept."""
```

Input

Python 2:

```
answer = raw_input("What did you eat today? ")  
print(answer)
```

Python 3:

```
answer = input("What did you eat today? ")  
print(answer)
```

Printing Answers Nicely

```
answer = input("What did you eat today? ")  
print("Today I ate " + answer)
```

Adding a Dramatic Pause

```
import time

answer = input("What did you eat today? ")

time.sleep(1)

print("Today I ate " + answer)
```

Adventure Example

```
import time

print("You have entered the classroom for the first time.")
print("You need to arm yourself for learning.")

time.sleep(1)

weapon = input("What weapon of mass learning will you "
              "choose?\n")

print("You look in your backpack for " + weapon)

time.sleep(2)

print("You could not find " + weapon)
```

Adventure Example

```
import time
```

Just like we needed the turtle module to draw, we need the time module so we can sleep

```
print("You have entered the classroom for the first time.")
```

```
print("You need to arm yourself for learning.")
```

```
time.sleep(1)
```

```
weapon = input("What weapon of mass learning will you "
               "choose?\n")
```

```
print("You look in your backpack for " + weapon)
```

```
time.sleep(2)
```

```
print("You could not find " + weapon)
```

Adventure Example

```
import time
```

Print some introductory text

```
print("You have entered the classroom for the first time.")  
print("You need to arm yourself for learning.")
```

```
time.sleep(1)
```

```
weapon = input("What weapon of mass learning will you "  
              "choose?\n")
```

```
print("You look in your backpack for " + weapon)
```

```
time.sleep(2)
```

```
print("You could not find " + weapon)
```

Adventure Example

```
import time
```

```
print("You have entered the classroom for the first time.")  
print("You need to arm yourself for learning.")
```

```
time.sleep(1)
```

Cause the program to sleep for the number of seconds provided as a parameter

```
weapon = input("What weapon of mass learning will you "  
              "choose?\n")
```

```
print("You look in your backpack for " + weapon)
```

```
time.sleep(2)
```

```
print("You could not find " + weapon)
```


Adventure Example

```
import time
```

```
print("You have entered the forest. It is dark and scary. Time.")
```

```
print("You need to arm
```

Ask the user to choose a 'weapon' (notice how the string is written on multiple lines)

```
time.sleep(1)
```

```
weapon = input("What weapon of mass learning will you "
               "choose?\n")
```

```
print("You look in your backpack for " + weapon)
```

```
time.sleep(2)
```

```
print("You could not find " + weapon)
```

Adventure Example

```
import time
```

```
print("You have entered the classroom for the first time.")  
print("You need to arm yourself for learning.")
```

```
time.sleep(1)
```

```
weapon = input("What weapon  
              "choose?\n")
```

This means add a new line at the
end of the string

```
print("You look in your backpack for " + weapon)
```

```
time.sleep(2)
```

```
print("You could not find " + weapon)
```

Adventure Example

```
import time
```

```
print("You have entered the classroom for the first time.")  
print("You need to arm yourself for learning.")
```

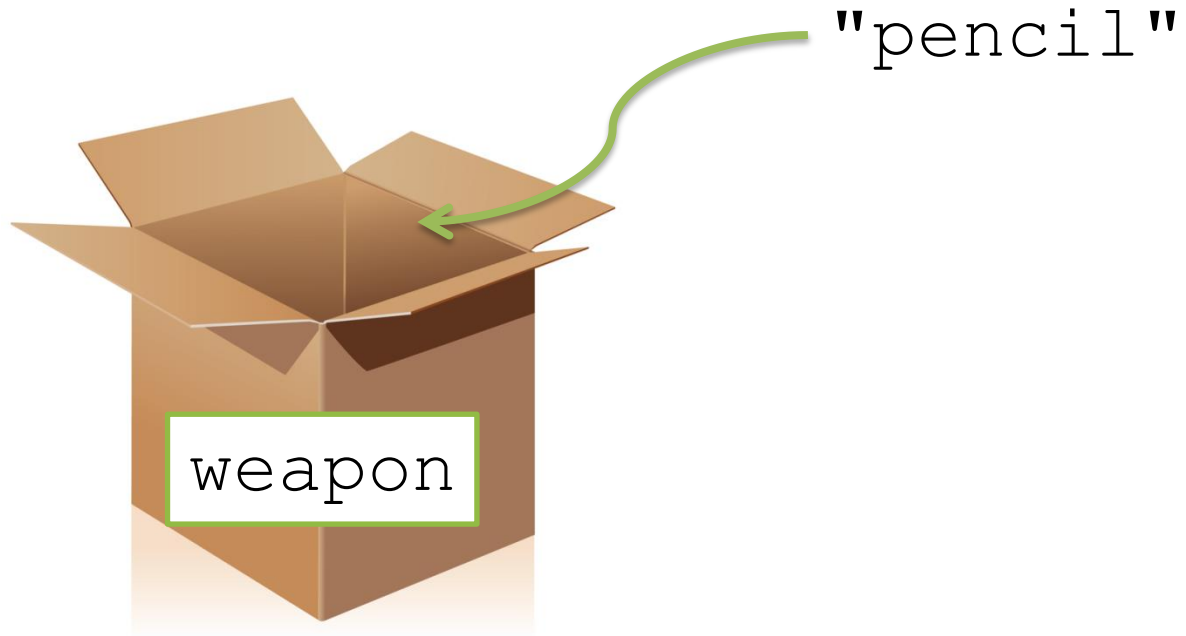
```
time.sleep(1)
```

```
weapon = input("What weapon of mass learning will you "  
              "choose?\n")
```

The user's response
is saved in the box
labelled `weapon`
(i.e. the `weapon`
variable)

```
    print("You found " + weapon)
```

```
    print("You did not find " + weapon)
```



```
weapon = input("...")
```

Adventure Example

```
import time

print("You have entered the classroom for the first time.")
print("You need to arm yourself for learning.")

time.sleep(1)

weapon = input("What weapon of mass learning will you "
               "choose?\n")

print("You look in your backpack for " + weapon)

time.sleep(2)

print("You could not find " + weapon)
```

The user's input is stored as a string, too, so we can stick the two strings together to print them nicely.



"You could not find "



"banana"



"You could not find banana"

LISTS

Where did we use a list before?

Where did we use a list before?

```
for sideNum in [1, 2, 3, 4, 5]:  
    alex.forward(100)  
    alex.left(72)
```

Where did we use a list before?

```
for sideNum in [1, 2, 3, 4, 5]:  
    alex.forward(100)  
    alex.left(72)
```

```
for aColor in ["red", "blue", "yellow",  
              "green", "purple"]:  
    alex.color(aColor)  
    alex.forward(100)  
    alex.left(72)
```

Creating a List



```
myList = [2, 4, 1]
```

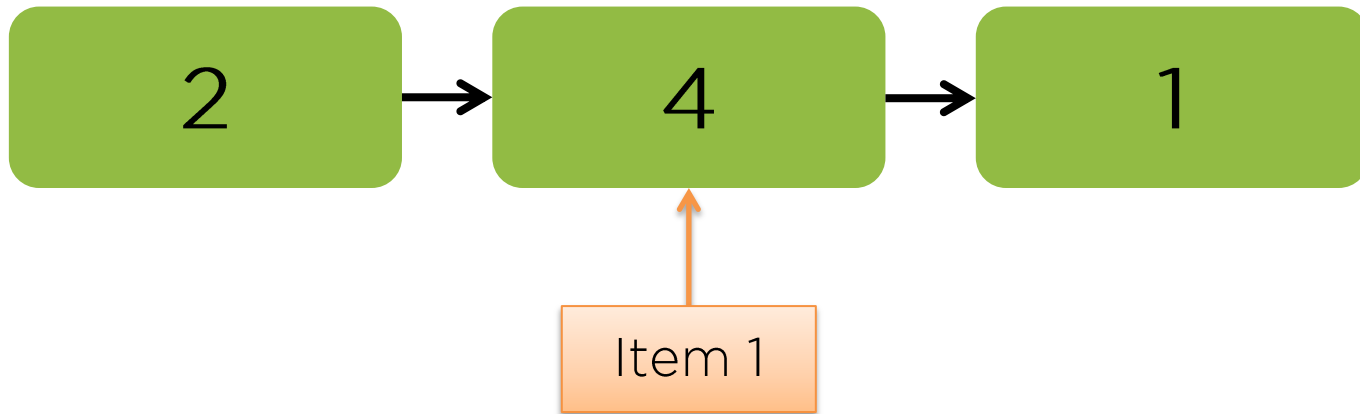
Using a List



```
print (myList [0])
```

↑
known as the *index*

Using a List



```
print(myList[1])
```

Using a List



```
print(myList[2])
```

Using a List



```
print(len(myList))
```

Prints 3

Using a List



```
print (myList[len (myList) -1])
```

Prints ?

Using a List



```
print (myList[len (myList) -1])
```

Prints 1

Using a List



```
print (myList[-1])
```

Watch out for negative numbers as they may not do what you expect.

The above prints 1.

Adventure Example

```
import random  
import time  
...
```

Add a new import at the top of the file so we can use the `random` module.

Adventure Example

```
inventory = ["pen", "pencil", "tablet",  
            "textbook", "banana"]
```

Below the imports, create a list called inventory and add some "weapons of mass learning" to it.

Adventure Example

```
print("You pick something randomly from "  
      "your backpack instead: ")  
time.sleep(3)  
  
print(random.choice(inventory))
```

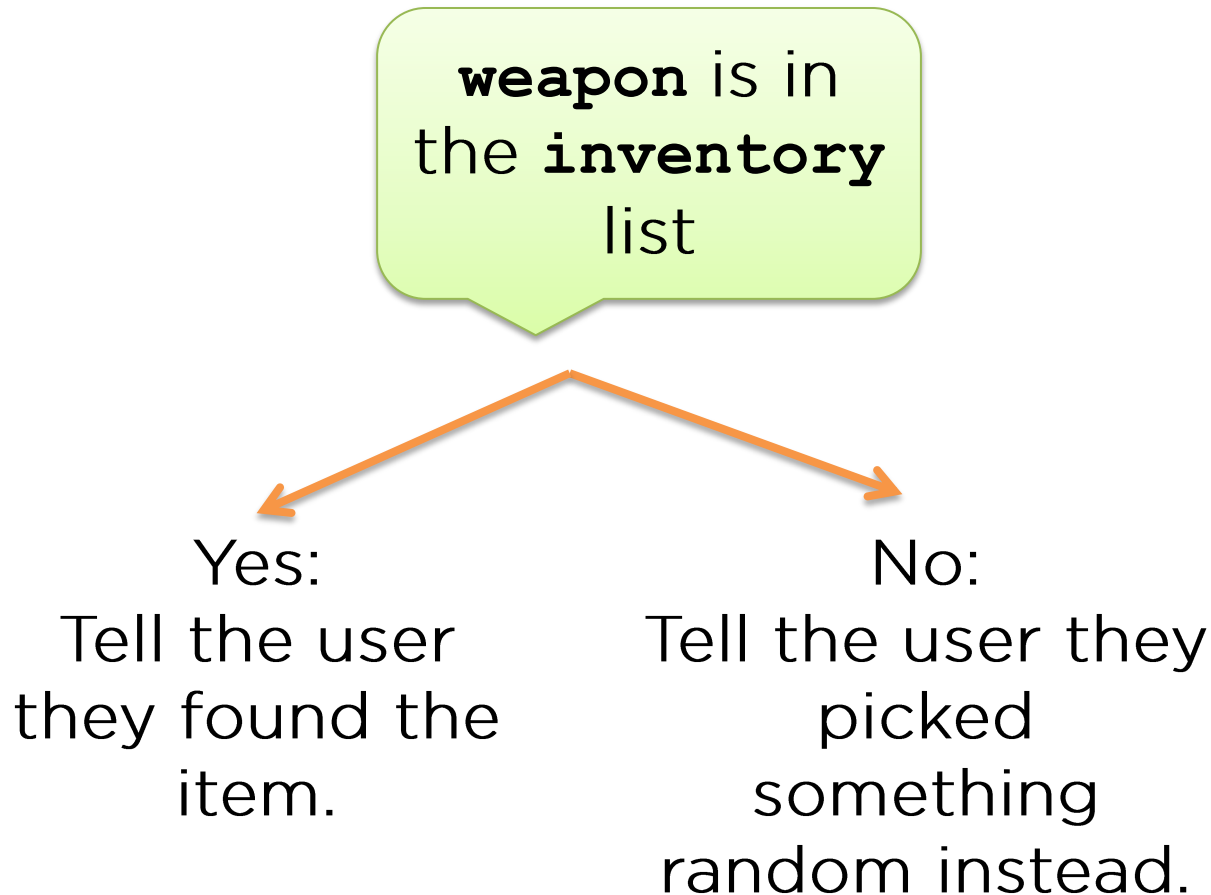
Finally, at the end of the program, tell the user they chose something randomly from their inventory, then actually pick something to print.

Adventure Example

What could happen if you type something that is actually in your inventory when asked for a "weapon"?

CHECKING USER INPUT

Checking whether the user's choice is already in the list



Checking whether the user's choice is already in the list

```
if weapon in inventory:
    print("You found " + weapon + " in your backpack.")
else:
    print("You did not find " + weapon + " in your "
          "backpack.")
    print("You pick something randomly from your "
          "backpack instead: ")
    print(random.choice(inventory))
```

Checking whether the user's choice is already in the list

```
if weapon in inventory:
    print("You found " + weapon + " in your backpack.")
else:
    print("You did not find " + weapon + " in your "
          "backpack.")
    print("You pick something randomly from your "
          "backpack instead: ")
    print(random.choice(inventory))
```

Checks whether the contents of the weapon box (variable) are in the list inventory list

Checking whether the user's choice is already in the list

```
if weapon in inventory:
    print("You found " + weapon + " in your " + backpack + ".")
else:
    print("You did not find " + weapon + " in your " + backpack + ".")
    print("You pick something randomly from your " + backpack + " instead: ")
    print(random.choice(inventory))
```

This statement is either true or false. If it is true...

Checking whether the user's choice is already in the list

```
if weapon in inventory:  
    print("You found " + weapon + " in your backpack.")  
else:  
    print("You did not find " + ...this will be printed. "  
        "backpack.")  
    print("You pick something randomly from your "  
        "backpack instead: ")  
    print(random.choice(inventory))
```

Checking whether the user's choice is already in the list

```
if weapon in inventory:  
    print("You found " + weapon + " in your backpack.")  
else:  
    print("You did not find " + weapon + " in your "  
          "backpack.")  
    print("You pick something randomly from your "  
          "backpack instead: ")  
    print(random.choice(inventory))
```

If it is false...

Checking whether the user's choice is already in the list

```
if weapon in inventory:  
    print("You found " + weapon + " in your backpack.")  
else:  
    print("You did not find " + weapon + " in your "  
          "backpack.")  
    print("You pick something randomly from your "  
          "backpack instead: ")  
    print(random.choice(inventory))
```

...this code will run.

Taking Action Based on Input

An adventure game needs a set of commands the user will interact with.

How can we start implementing our own?

Taking Action Based on Input

```
inventory = ["pen", "pencil", "tablet",  
            "textbook", "banana"]  
  
print("You are sitting in your chair. "  
      "What would you like to do next?")  
  
answer = input("> ")
```


Taking Action Based on Input

```
inventory = ["pen", "pencil", "tablet",  
            "textbook", "banana"]
```

```
print("You are sitting in your chair. "  
      "What would you like to do next?")
```

```
answer = input("> ")
```

This is a nicer way to ask for input: set things up, then give the user a prompt

Taking Action Based on Input

```
if answer == "ask question":  
    print("You decide to ask the teacher "  
          "a question.")  
  
elif answer == "check inventory":  
    print("Your inventory: " +  
          ", ".join(inventory))  
  
else:  
    print("I don't know that command.")
```

Taking Action Based on Input

```
if answer == "ask question":  
    print("You decide to ask the teacher "  
          "a question.")
```

```
elif answer == "show inventory":  
    print("Here is your inventory: " +  
          ", ".join(inventory))
```

```
else:  
    print("I don't know that command.")
```

We have a new structure here that includes the keyword `elif`

```
if <something true or false>:  
    <code>  
else:  
    if <something true or false>:  
        <code>  
    else:  
        if <something true or false>:  
            <code>  
        else:  
            <code>
```

We could chain together
a bunch of if statements
together...

```
if <something true or false>:  
    <code>  
elif <something true or false>:  
    <code>  
elif <something true or false>:  
    <code>  
else:  
    <code>
```

...or we can use `elif`,
which is short for "else if"

```
if 4 < 3:  
    print(1)  
elif 4 < 5:  
    print(2)  
elif 4 < 6:  
    print(3)  
else:  
    print(4)
```

Important: In a chain of an `if`, some number of `elif(s)`, and an optional `else`, only the first condition that is `True` will be used, or else if nothing before it was `True`.

Taking Action Based on Input

```
if answer == "ask question":  
    print("You decide to ask the teacher "  
          "a question.")  
  
elif answer == "check inventory":  
    print("Your inventory: " +  
          ", ".join(inventory))  
  
else:  
    print("I don't know that command.")
```

Taking Action Based on Input

```
if answer == "ask question":  
    print("You decide to ask the teacher "  
          "a question.")
```

```
elif answer == "check inventory":  
    print("Your inventory: " +  
          ", ".join(inventory))
```

```
else:  
    print("That's not a command.")
```

Create a temporary string that will be used as a separator when printing the list...

Taking Action Based on Input

```
if answer == "ask question":  
    print("You decide to ask the teacher "  
          "a question.")
```

```
elif answer == "check inventory":  
    print("Your inventory: " +  
          ", ".join(inventory))
```

```
else:  
    print("I didn't understand your command.")
```

...then use `join` to take all the items in the given list and stick them together into a single string using the separator

Taking Action Based on Input

```
if answer == "ask question":  
    print("You decide to ask the teacher "  
          "a question.")
```

```
elif answer == "check inventory":  
    print("Your inventory is  
          ", ".join")
```

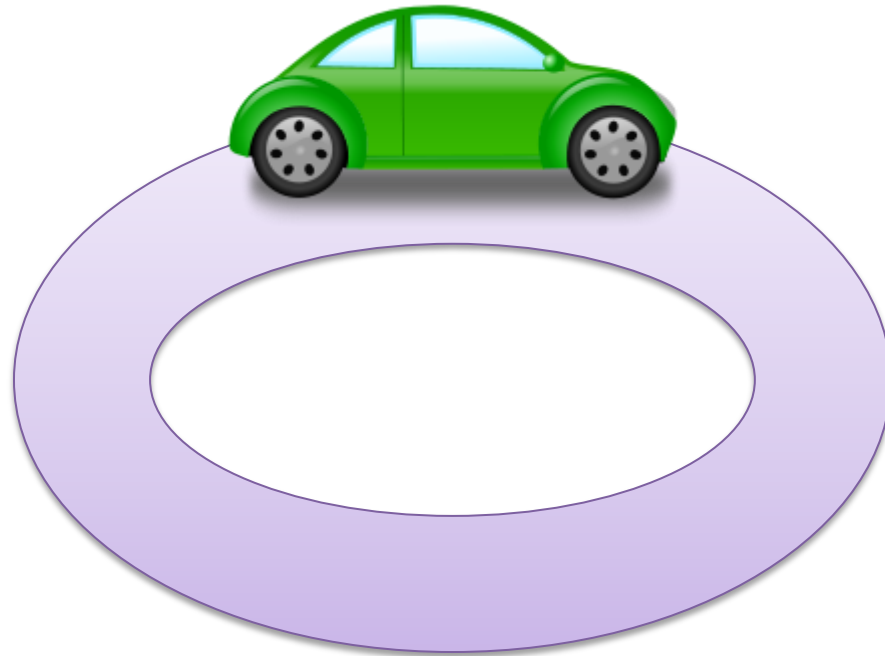
What if we don't want to leave it at that? What if we want to keep asking until we get good input?

```
else:
```

```
    print("I don't know that command.")
```

LOOPS AND USER INPUT

Loops



Drive the same track multiple times

for loop

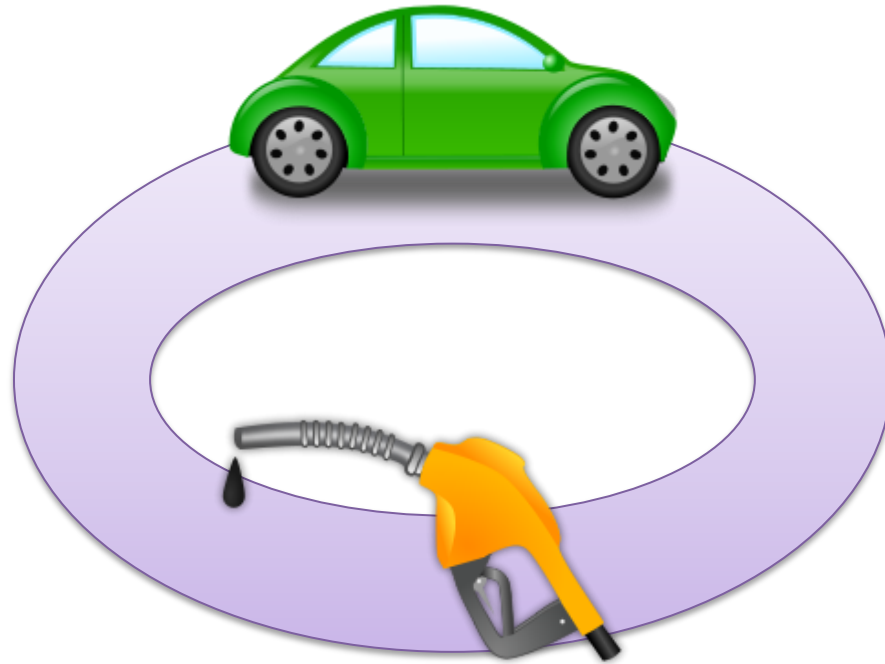


```
for lapNum in [1, 2, 3, 4]:  
    # drive the lap
```

4 laps

Drive the same track exactly four times

while loop



Keep driving the track until we run out of gas (but always go back to the starting point before stopping).

while loop



```
answer = input("> ")
while answer != "1":
    print("Try again")
    answer = input("> ")
```

Keep driving the track until we run out of gas (but always go back to the starting point before stopping).

```
number = 5
while number < 10:
    number = number + 1
    print(number)
```

Important: We always drive the whole track (i.e. run all the code inside the loop) before coming back to the beginning. *Then* we check whether the loop's statement is true.

Looping Until Input is Good

```
inventory = ["pen", "pencil", "tablet", "textbook", "banana"]  
print("You are sitting in your chair.")
```

```
answerIsGood = False
```

```
while answerIsGood == False:
```

```
    answerIsGood = True
```

```
    print("What would you like to do next?")
```

```
    answer = input("> ")
```

```
    if answer == "ask question":
```

```
        print("You decide to ask the teacher a question.")
```

```
    elif answer == "check inventory":
```

```
        print("Your inventory: " + ", ".join(inventory))
```

```
    else:
```

```
        answerIsGood = False
```

```
        print("I don't know that command.")
```

Looping Until Input is Good

```
inventory = ["pen", "pencil", "tablet", "textbook", "banana"]  
print("You are sitting")
```

```
answerIsGood = False
```

Store a variable called
answerIsGood to keep
track of when we have to
ask for input again

```
while answerIsGood ==  
    answerIsGood = True
```

```
print("What would you like to do next?")  
answer = input("> ")
```

```
if answer == "ask question":  
    print("You decide to ask the teacher a question.")  
elif answer == "check inventory":  
    print("Your inventory: " + ", ".join(inventory))  
else:  
    answerIsGood = False  
    print("I don't know that command.")
```

Looping Until Input is Good

```
inventory = ["pen", "pencil", "tablet", "textbook", "banana"]
print("You are sitting")

answerIsGood = False

while answerIsGood == False:
    answerIsGood = True

    print("What would you like to do next?")
    answer = input("> ")

    if answer == "ask question":
        print("You decide to ask the teacher a question.")
    elif answer == "check inventory":
        print("Your inventory: " + ", ".join(inventory))
    else:
        answerIsGood = False
        print("I don't know that command.")
```

Start with the answer being bad so we have to loop at least once

Looping Until Input is Good

```
inventory = ["pen", "pencil", "tablet", "textbook", "banana"]  
print("You are sitting in your chair.")
```

```
answerIsGood = False
```

```
while answerIsGood == False:  
    answerIsGood = True
```

We want to keep driving the track, asking for new input, while the answer is not good

```
print("What would you like to do next?")  
answer = input("> ")
```

```
if answer == "ask question":  
    print("You decide to ask the teacher a question.")  
elif answer == "check inventory":  
    print("Your inventory: " + ", ".join(inventory))  
else:  
    answerIsGood = False  
    print("I don't know that command.")
```

Looping Until Input is Good

```
inventory = ["pen", "pencil", "tablet", "textbook", "banana"]  
print("You are sitting in your chair.")
```

```
answerIsGood = False
```

```
while answerIsGood == False:  
    answerIsGood = True
```

Assume the answer will be good until it's proven otherwise

```
print("What would you like to do next? ")  
answer = input("> ")
```

```
if answer == "ask question":  
    print("You decide to ask the teacher a question.")  
elif answer == "check inventory":  
    print("Your inventory: " + ", ".join(inventory))  
else:  
    answerIsGood = False  
    print("I don't know that command.")
```

Looping Until Input is Good

```
inventory = ["pen", "pencil", "tablet", "textbook", "banana"]  
print("You are sitting in your chair.")
```

```
answerIsGood = False
```

```
while answerIsGood == False:  
    answerIsGood = True
```

Each lap around the track should start by asking the user what they want to do.

```
print("What would you like to do next?")  
answer = input("> ")
```

```
if answer == "ask question":  
    print("You decide to ask the teacher a question.")  
elif answer == "check inventory":  
    print("Your inventory: " + ", ".join(inventory))  
else:  
    answerIsGood = False  
    print("I don't know that command.")
```

Looping Until Input is Good

```
inventory = ["pen", "pencil", "tablet", "textbook", "banana"]  
print("You are sitting in your chair.")
```

```
answerIsGood = False
```

```
while answerIsGood == False:
```

```
    answerIsGood = True
```

```
    print("What would you like  
    answer = input("> ")
```

Once we have an answer,
we can decide what to do
with it

```
    if answer == "ask question":  
        print("You decide to ask the teacher a question.")  
    elif answer == "check inventory":  
        print("Your inventory: " + ", ".join(inventory))  
    else:  
        answerIsGood = False  
        print("I don't know that command.")
```

Looping Until Input is Good

```
inventory = ["pen", "pencil", "tablet", "textbook", "banana"]  
print("You are sitting in your chair.")
```

```
answerIsGood = False
```

```
while answerIsGood == False:  
    answerIsGood = True
```

```
    print("What would you like to do next?")  
    answer = input("> ")
```

```
    if answer == "ask question":  
        print("You decide to ask a question.")  
    elif answer == "check inventory":  
        print("Your inventory:")
```

```
    else:  
        answerIsGood = False  
        print("I don't know that command.")
```

The else is like a catch-all - if we haven't handled the answer yet, we know it couldn't have been good

Looping Until Input is Good

```
inventory = ["pen", "pencil", "tablet", "textbook", "banana"]  
print("You are sitting in your chair.")
```

```
answerIsGood = False
```

```
while answerIsGood == False:
```

```
    answerIsGood = True
```

```
    print("What would you like to do next?")
```

```
    answer = input("> ")
```

```
    if answer == "ask question":
```

```
        print("You decide to ask the teacher a question.")
```

```
    elif answer == "check inventory":
```

```
        print("Your inventory:")
```

```
    else:
```

```
        answerIsGood = False
```

```
        print("I don't know that command.")
```

Setting this variable to False again ensures we drive around the track once more

Generalizing Getting Input

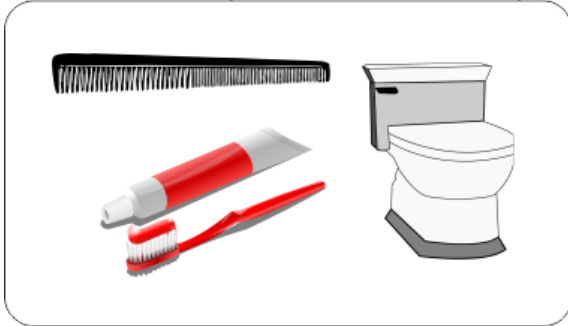
Suppose we have a set number of commands we want to give users access to. Can we separate getting good user input from actually taking action with it?

ROUTINES TO GET INPUT

Creating Customized Routines

```
def drawSquare(x, y):  
    alex.penup()  
    alex.goto(x, y)  
    alex.pendown()  
    for side in range(4):  
        alex.forward(50)  
        alex.right(90)
```

`routine(doThisFirst)`



```
drawSquare(50, 50)  
drawSquare(200, 200)
```

Defining a User Input Routine

```
def getUserInput(allowedCommands):  
    while True:  
        print("What do you want to do?")  
        answer = input("> ")  
        if answer in allowedCommands:  
            return answer  
        else:  
            print("I don't know that command.")
```

Defining a User Input Routine

```
def getUserInput(allowedCommands):
```

We are defining a routine
called getUserInput

```
    print("What do you want to do?")
    answer = input()
    if answer in allowedCommands:
        return answer
    else:
        print("I don't know that command.")
```

Defining a User Input Routine

```
def getUserInput(allowedCommands):  
    while True:  
        print("Enter a command from the list below:  
        ans = input().lower()  
        if ans in allowedCommands:  
            return ans  
        else:  
            print("I don't know that command.")
```

We are setting up a parameter that should be a list of commands the user can enter when asked

Defining a User Input Routine

```
def getUserInput():  
    while True:  
        print("Welcome to the game.")  
        answer = input("> ")  
        if answer in allowedCommands:  
            return answer  
        else:  
            print("I don't know that command.")
```

This seems to mean we drive around the track... forever!!

Defining a User Input Routine

```
def getUserInput(allowedCommands):  
    while True:  
        print("What do you want to do?")  
        answer = input("> ")  
        if answer in allowedCommands:  
            return answer  
        else:  
            print("I don't")
```

Although a routine doesn't have to have a result, it can - this routine "returns" the user's answer as a result

Defining a User Input Routine

```
def getUserInput(allowedCommands):  
    while True:  
        print("What do you want to do?")  
        answer = input("> ")  
        if answer in allowedCommands:  
            return answer  
        else:  
            print("I don't")
```

Returning a result causes the routine to exit immediately; therefore, the loop also ends.

Generalizing the Question Asked

```
def getUserInput(question, allowedCommands):  
    while True:  
        print(question)  
        answer = input("> ")  
        if answer in allowedCommands:  
            return answer  
        else:  
            print("I don't know that command.")
```

Using the Input Routine

```
command = getUserInput("What do you want to do?",
                       ["ask question", "check inventory"])

if command == "ask question":
    print("You decide to ask the teacher a question.")
elif command == "check inventory":
    print("Your inventory: " + ", ".join(inventory))
```

Using the Input Routine

```
command = getUserInput("What do you want to do?",  
                        ["ask question", "check inventory"])  
Anything a routine returns  
can be saved into a variable  
if command == "ask question":  
    ask the teacher a question."  
elif command == "check inventory":  
    print("Your inventory: " + ", ".join(inventory))
```

Using the Input Routine

```
command = getUserInput("What do you want to do?",
                       ["ask question", "check inventory"])

if command == "ask question":
    print("You decide to ask the teacher a question.")
elif command == "check inventory":
    print("Your inventory: " + ", ".join(inventory))
```

What is the advantage of creating and using the routine?

**ROUTINES TO HANDLE
PLACES TO GO**

Adding Places to Go

We know how to add commands to our game, but what about places to go?

A good technique is to write a routine (aka function) for each area the player can visit.

Adding Places to Go

```
def handleClassroom():
    print("You walk into the classroom just as class begins.")
    print("You can ask the teacher about birds or pencils.")

    answer = getUserInput("Which would you like to ask about?",
                           ["birds", "pencils"])

    if answer == "birds":
        print("The teacher explains how birds are different"
              " from mammals.")

    elif answer == "pencils":
        print("The teacher sends you to the principal's office"
              " for distracting the class...again.")
```

Going Places

```
inventory = ["pen", "pencil", "tablet", "textbook", "banana"]

command = getUserInput("What do you want to do?",
                       ["go to class", "check inventory"])

if command == "go to class":
    handleClassroom()
elif command == "check inventory":
    print("Your inventory: " + ", ".join(inventory))
```

PUTTING IT ALL TOGETHER

Game Loop

We can look at our text adventure game as some valid path through all of our locations until we reach the "end."

```
while we are not at the end:  
    call the routine for the current location
```

Locations Should Return New Locations

```
def handleClassroom():
    print("You walk into the classroom just as class begins.")
    print("You can ask the teacher about birds or pencils.")

    answer = getUserInput("Which would you like to ask about?",
                          ["birds", "pencils"])

    if answer == "birds":
        print("The teacher explains how birds are different"
              " from mammals.")
        return "classroom"

    elif answer == "pencils":
        print("The teacher sends you to the principal's office"
              " for distracting the class...again.")
        return "principal"
```

The Game Loop Drives Going Through Locations

```
inventory = ["pen", "pencil", "tablet", "textbook",  
            "banana"]  
location = "classroom"  
  
while location != "end":  
    if location == "classroom":  
        location = handleClassroom()  
    elif location == "principal":  
        print("To do: make principal")  
        location = "end"  
  
print("The end!")
```

The Game Loop Drives Going Through Locations

```
inventory = ["pen", "pencil", "tablet", "textbook",  
            "banana"]  
location = "classroom"
```

```
while location != "end":  
    if location == "classroom":  
        location = handleClassroom()  
    elif location == "principal":  
        print("To do: make principal")  
        location = "end"
```

```
print("The end!")
```

Keep going until the last location is reached

The Game Loop Drives Going Through Locations

```
inventory = ["pen", "pencil", "tablet", "textbook",  
            "banana"]  
location = "classroom"  
  
while location != "end":  
    if location == "classroom":  
        location = handleClassroom()  
    elif location == "principal":  
        print("To do: make principal")  
        location = "end"  
  
print("The end!")
```

Check the current
location...

The Game Loop Drives Going Through Locations

```
inventory = ["pen", "pencil", "tablet", "textbook",  
            "banana"]  
location = "classroom"  
  
while location != "end":  
    if location == "classroom":  
        location = handleClassroom()  
    elif location == "principal":  
        print("To do: make principal")  
        location = "end"  
  
print("The end!")
```

...and call the appropriate routine.

The Game Loop Drives Going Through Locations

```
inventory = ["pen", "pencil", "tablet", "textbook",  
            "banana"]  
location = "classroom"  
  
while location != "end":  
    if location == "classroom":  
        location = handleClassroom()  
    elif location == "principal":  
        location = handlePrincipal()  
  
print("The end!")
```

Save the next location for use when we drive around the track next time.

Updating getUserInput

```
def getUserInput(question, allowedCommands):
    while True:
        print(question)
        answer = input("> ")
        if answer in allowedCommands:
            return answer
        elif answer == "check inventory":
            print("Your inventory: "
                  + ", ".join(inventory))
        else:
            print("I don't know that command.")
```

Updating getUserInput

```
def getUserInput(question, allowedCommands):  
    while True:  
        print(question)  
        answer = input("> ")  
        if answer in allowedCommands:  
            return answer  
        elif answer == "check inventory":  
            print("Your inventory: "  
                  + ", ".join(inventory))
```

Now that we aren't asking for commands outside location routines, we need somewhere to allow users to check their inventory (and any other general commands)

nd.")