

Storing Values



mine



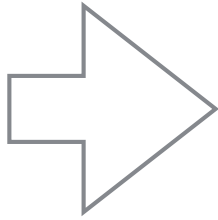
drink	red wine
appetizer	calamari
entree	spaghetti
dessert	cannoli

“variables”

“identifiers”

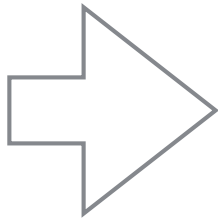
```
print 'Hello Builders!'
```

```
greeting = 'Hello Builders!'  
print greeting
```

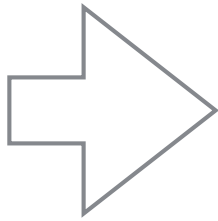
```
print "boop beep boop boop"  
greeting = 'Hello Builders!'
```

identifier	value



```
print "boop beep boop boop"  
greeting = 'Hello Builders!'
```

identifier	value



```
print "boop beep boop boop"  
greeting = 'Hello Builders!'
```

identifier	value
greeting	'Hello Builders!'

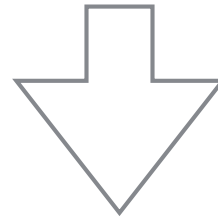
```
greeting      = 'Hello Builders!'
salutation    = 'Hey girl hey!'
cat_message   = 'oh hai'
```

```
greeting      = 'Hello Builders!'
salutation    = 'Hey girl hey!'
cat_message   = 'oh hai'
```

identifier	value
greeting	'Hello Builders!'
salutation	'Hey girl hey!'
cat_message	'oh hai'

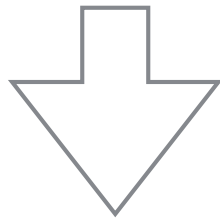
```
cat_message = 'oh hai'
```

Right Hand
Side

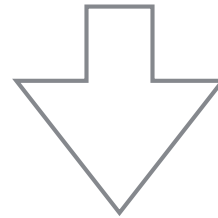


```
cat_message = 'oh hai'
```

Left Hand
Side

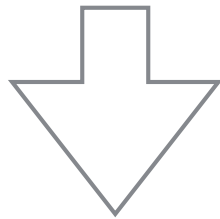


Right Hand
Side

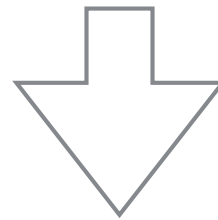


```
cat_message = 'oh hai'
```


Left Hand
Side

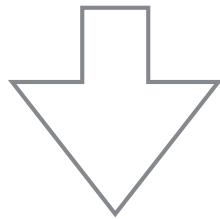


Right Hand
Side

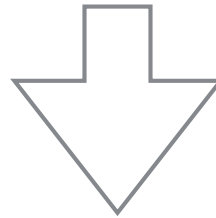


cat_message = 'oh' + 'hai'

Left Hand
Side

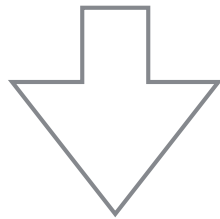


Right Hand
Side

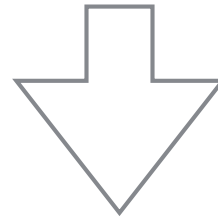


```
cat_message = 'o' + 'h' + ' ' + 'hai'
```

Left Hand
Side



Right Hand
Side



```
cat_message = 'oh hai'
```

pythontutor.com
(your new bff)

Valid identifiers

- starts with a letter (a-z, A-Z)
- contains letters, numbers, or underscores (_)
- and cannot be a *reserved word*

Reserved words

and	del	from	not	while
as	elif	global	or	with
assert	else	if	pass	yield
break	except	import	print	
class	exec	in	raise	
continue	finally	is	return	
def	for	lambda	try	

String formatting

string formatting

```
mood = "grumpy cat"  
print "Today, I feel just like %s" % mood
```

Today, I feel just like grumpy cat

string formatting

```
mood = "a bird with a french fry"  
print "Today, I feel just like %s" % mood
```

Today, I feel just like a bird with a french fry

interpolation operator



```
"Today, I feel just like %s" % mood
```



placeholder



value

Getting user input

```
cat_message = raw_input()
```

```
cat_message = raw_input('Meow?')
```

```
prompt_text = 'Meow?'  
cat_message = raw_input(prompt_text)
```

```
prompt_text = 'Meow?'  
cat_message = raw_input(prompt_text)  
print "kittteh says %s" % (cat_message)
```

```
cat_name = 'Oakley'  
prompt_text = 'Meow?'  
cat_message = raw_input(prompt_text)  
print "%s says %s" % (cat_name, cat_message)
```


Demo: running a .py