



Python i Pygame

Programiranje arkadnih igrica u Pythonu koristeći Pygame

Biblioteke i moduli



Biblioteke i moduli



- Biblioteke (Libraries) su programske datoteke koje sadrže funkcije i klase koji se koriste (pozivaju) u drugim programima
- Biblioteka može sadržavati jednu ili više datoteka modula (Module)
- Biblioteke i moduli se koriste zbog:
 - Lakšeg razumijevanja programa
 - Mogućnosti da više od jednog programera radi istovremeno na programu
 - Mogućnosti dijeljenja programa među programerima



Kreiranje modula



- Prvo kreiramo programsku datoteku `my_functions.py` i u njoj funkciju `foo`:

```
def foo():  
    print("Foo!")
```

- Zatim kreiramo programsku datoteku `test.py` u kojoj ćemo koristiti funkciju `foo`:

```
# Ukljuci my_functions.py programsku datoteku  
import my_functions  
  
# Pozovi funkciju fo iz my_functions.py programske datoteke  
my_functions.foo()
```

- Ako želimo pozvati funkciju `foo` bez navođenja imena datoteke:

```
# Iz my_functions.py učitaj sve funkcije  
from my_functions import *  
  
# Pozovi funkciju fo iz my_functions.py programske datoteke  
foo()
```



Kviz



- Slijedi link ispod:

<http://programarcadegames.com/quiz/quiz.php?file=libraries&lang=en>



Kviz odgovori



- P1: What is a library?

- A .pyc file.
- A collection of functions and/or classes that can be imported into a project.
- Any code that has not been written by a developer.
- A store where you can buy code from other developers.

- P2: Why would a person create a library?

- Libraries are something to be avoided by developers.
- It makes the code run faster.
- It provides an easy way for developers to share code between projects and other developers.
- It makes the code smaller.



Kviz odgovori, nastavak



- P3: Why does the following code not work?

```
my_functions.py
def foo():
    print("foo!")
```

```
main.py
import my_functions
foo()
```

- The program should read `import foo`
 - The program should read `import my_functions.py`
 - The program should read `from foo import my_functions`
 - The program should read `my_functions.foo()`
-
- P4: What is the proper code to import the math library into the local name space?
 - `from math import *`
 - `import math into local`
 - `import math`
 - `from math import local`
 - `import local`



Kviz odgovori, nastavak



- P5: What does the asterisk represent in the following line of code:

```
from my_functions import *
```

- It represents the local namespace.
- My God, it's full of stars!
- Wildcard. Import every function in the my_functions module.

