

# Introduction to Web Programming

CSCI P-14300

# Today

Python

```
print("hello, world")
```

functions

```
print("hello, world")
```

loops

```
while True:  
    print("hello, world")
```

```
for i in range(50):  
    print("hello, world")
```



variables

$$i = 0$$

# Boolean expressions

$i < 50$

$$x < y$$

conditions

```
if x < y:  
    print("x is less than y")  
elif x > y:  
    print("x is greater than y")  
else:  
    print("x is equal to y")
```

arrays



```
sys.argv[0]
```

source code

```
def main():  
    print("hello, world")
```

compiler

bytecode

2	0	LOAD_GLOBAL	0	(print)
	3	LOAD_CONST	1	('hello, world')
	6	CALL_FUNCTION	1	(1 positional, 0 keyword pair)
	9	POP_TOP		
	10	LOAD_CONST	0	(None)
	13	RETURN_VALUE		

interpreter

```
python hello.py
```



./hello

bool

float

int

str

...

...

complex

list

tuple

range

set

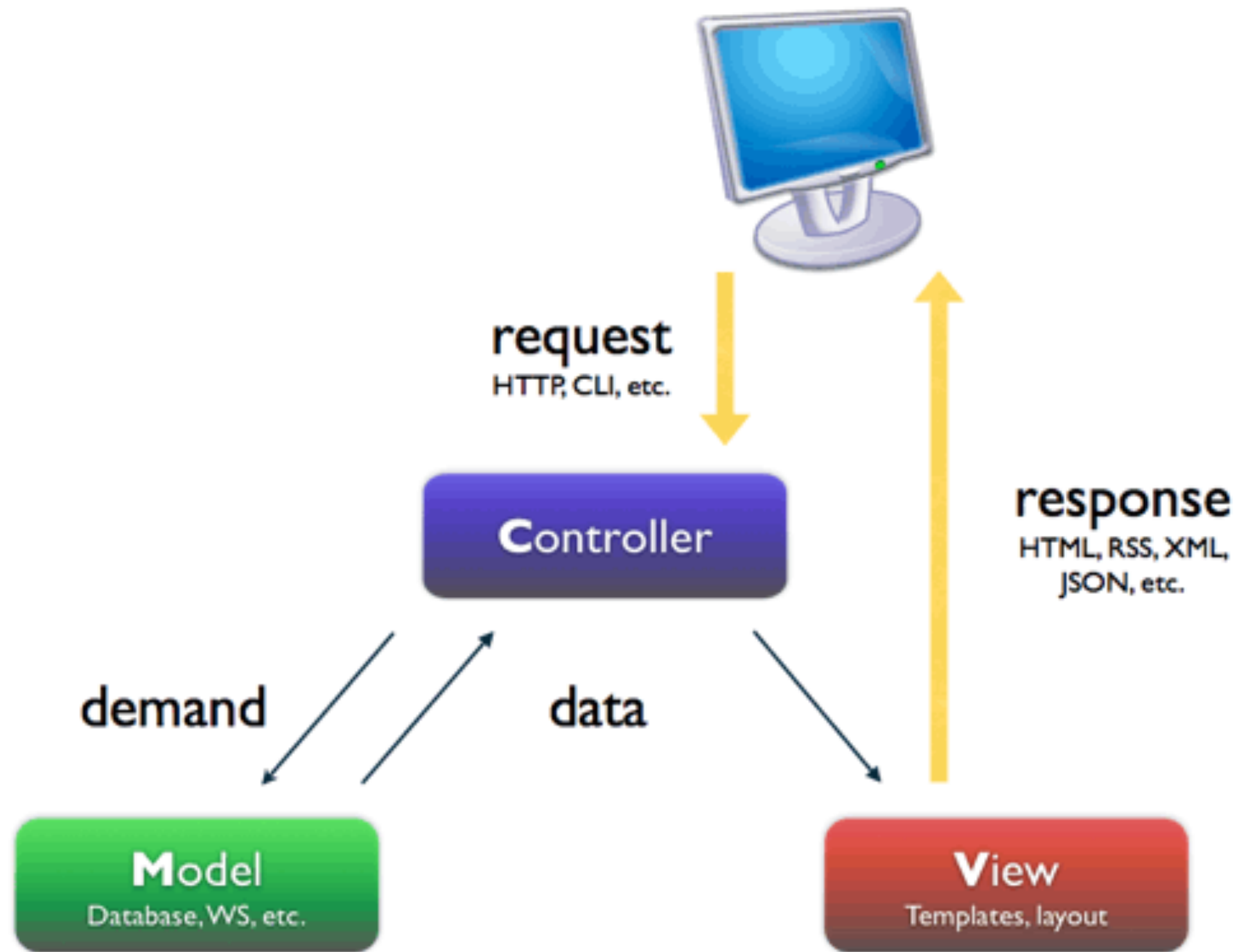
dict

...



# Flask

web development,  
one drop at a time



# Project 1

due Wed 6/27 before class

# Tomorrow

SQL