From Engineer to Engineer

- *Python Script Primer*

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运行脚本

hello_world.py

```
name = input("please input your name: ")
print("hello", name, "!")
```

```
> python hello_world.py
please input your name: world
hello world !
```

hello_world

```
#!/usr/bin/env python
name = input("please input your name: ")
print("hello", name, "!")
```

```
> chmod +x hello_world
> ./hello_world
please input your name: world
hello world !
```

通用结构

```
#!/usr/bin/env python

def main():
    name = input("please input your name: ")
    print("hello", name, "!")

if __name__ == "__main__":
    main()
```

数据处理

```
#!/usr/bin/env python
```

```
def stdin_input():
    return input("please input your name: ")
```

输入

```
def process(source):
    return "hello %s !" % source
```

处理

```
def stdout_output(source):
    print(source)
```

输出

```
def main():
    stdout_output( process ( stdin_input() ) )

if __name__ == "__main__":
    main()
```

数据处理 – 输入

subprocess

https://docs.python.org/3/library/subprocess.html

paramiko

http://docs.paramiko.org/en/2.4/api/client.html

数据处理 – 处理

str

https://docs.python.org/3.7/library/string.html

https://docs.python.org/3/howto/unicode.html

re

https://docs.python.org/3.7/howto/regex.html#regex-howto

https://regexr.com with PCRE mode

数据处理 – 输出

json

https://docs.python.org/3/library/json.html

命令行参数

argparse

https://docs.python.org/3.7/howto/argparse.html

日志

logging

https://docs.python.org/3.7/howto/logging.html

异常处理

Exceptions

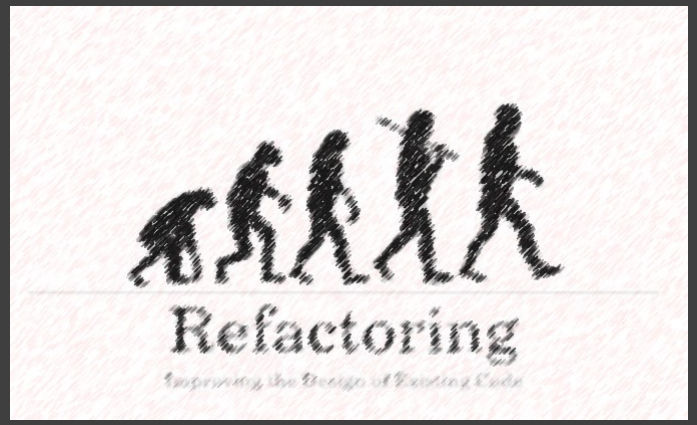
https://docs.python.org/3/tutorial/errors.html

测试

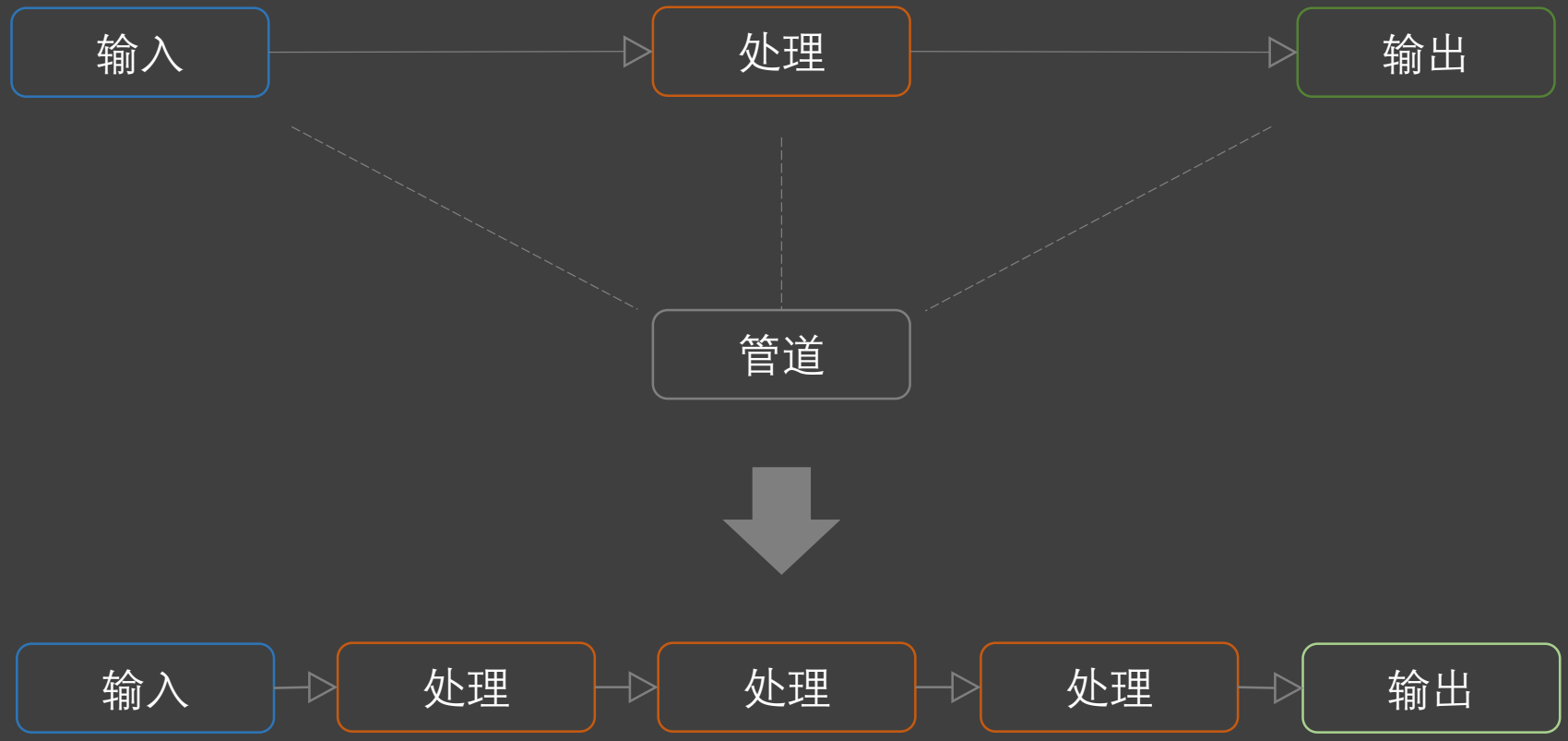
unittest

https://docs.python.org/3/library/unittest.html

重构



管道



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Q&A