

A Typical Python Skript

```
1  #!/usr/bin/env python3
2  import sys
3  from urllib.request import urlretrieve
4
5
6  def download(urls, target_dir="down"):
7      for url in urls:
8          filename = url.split("/")[-1]
9          print(f"Downloading '{url}'...", end="")
10         try:
11             urlretrieve(url, f"{target_dir}/{filename}")
12             print("OK")
13         except Exception as e:
14             print(f"ERR ({e})")
15
16
17  if __name__ == "__main__":
18      urls = sys.argv[1:]
19      if len(urls) < 1:
20          exit("Usage: download.py <url> [<url2> ...]")
21      download(urls)
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Explanations:

1. `#!/usr/bin/env python3`
 - ↖ `#!` Hash Bang: tell bash which binary to start
2. `from urllib.request import urlretrieve`
 - ↖ Imports (optionally using 'from' for shorter names)
3. `import sys`
 - ↖ Usage needs full namespace. For example in line 16 'sys.argv'.
4. ...
5. `def download(urls, target_dir="down"):`
 - ↖ Default parameters
6. `for url in urls:`
 - ↖ For element in list (i.e. foreach)
 - ↖ Indentation with 4 spaces (better not tabs)
7. `filename=url.split("/")[-1]`
 - ↖ Split into list and get last element (index -1)
8. `print(f"Downloading '{url}'...", end="")`
 - ↖ Formatted string with {} to output expression.
 - ↖ Optional parameter to suppress line break.
9. ...
15. `if __name__ == "__main__":`
 - ↖ Detect if this code is called directly as script and not indirect as library or for running test cases.
16. `urls = sys.argv[1:]`
 - ↖ Here the part (slice) starting with the second element.