

CSE216 Programming Abstractions

Install OCaml



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Install OCaml



- For Linux (Ubuntu)
 - From a command shell execute
`sudo apt update`
`sudo apt install opam`
- To install Linux
 - Amazon Web Service (AWS)
<https://www3.cs.stonybrook.edu/~youngkwon/cse216/>
 - Windows Subsystem for Linux (WSL)
<https://docs.microsoft.com/en-us/windows/wsl/install>
Execute `wsl --install` command from a command line
 - Install OCaml on Linux

Install OCaml

- For Windows (**not recommended**)
 - Install 64bit graphical installer from <http://fdopen.github.io/opam-repository-mingw/installation/>
 - It will install OCaml, Opam, Cygwin
 - Open Cygwin terminal from Desktop and run
 - `opam install depext`
 - `opam install depext-cygwinports`
 - `opam install graphics`

Install OCaml



- For Mac
 - Goto <https://ocaml.org/docs/install.html>
 - Follow the instructions

```
macOS

On macOS OCaml and/or OPAM can be installed via the existing third-party package systems.

Homebrew 4.08.1
brew install ocaml
brew install opam

Fink
apt install ocaml

MacPorts 4.08.1
port install ocaml
port install opam

FreeBSD 4.05.0
pkg install ocaml-nox11 # If you don't want X11 support
```

Hello World 1

- Run **ocaml** and execute the following

```
$ ocaml
OCaml version 4.01.0+ocp1

# "Hello world";;
- : string = "Hello world"
```

- To **exit** from Ocaml execute the following

```
OCaml version 4.01.0+ocp1

# "Hello world";;
- : string = "Hello world"

# #quit;;
```

Hello World 2

- Create **helloworld.ml** with the following line

```
Printf.printf "%s\n" "hello world"
```

- In the top level, execute
`#use "helloworld.ml";;`

```
OCaml version 4.01.0+ocp1  
  
# #use "helloworld.ml";;  
hello world  
- : unit = ()
```

Hello World 3

- In the terminal, **compile helloworld.ml** with `ocamlc`
- Execute helloworld

```
$ ocamlc -o helloworld helloworld.ml  
  
$ ./helloworld  
hello world  
  
$
```