

MIDDLE EAST TECHNICAL UNIVERSITY, NORTHERN CYPRUS CAMPUS

CNG242 Programming Language Concepts - Spring 2021 - Lab 1

1. Download

This semester we are going to use Haskell **8.6.5.** This is an earlier release for Haskell which is easier to install and run. For windows, you can download and install from the following link; https://www.haskell.org/platform/prior.html



Haskell with batteries included

Prior Releases

2019 8.6.5, April 2019 ⇒ Windows, 64bit

2018

8.6.3, December 2018 ⇒ Mac OS X, 64bit - Windows, 64bit - Windows, 32bit - Source

8.4.3, June 2018 ⇒ Linux, 64bit - Linux, 64bit - Linux, 32bit - Linux, 32bit - Mac OS X, 64bit - Mac OS X, 64bit - Windows, 64

8.4.2, May 2018 ⇒ Linux, 64bit - Linux, 64bit - Linux, 32bit - Linux, 32bit - Mac OS X, 64bit - Mac OS X, 64bit - Windows, 64l

2017

8.2.2, December 2017 ⇒ Linux, 64bit - Linux, 64bit - Linux, 32bit - Linux, 32bit - Mac OS X, 64bit - Mac OS X, 64bit - Windo\

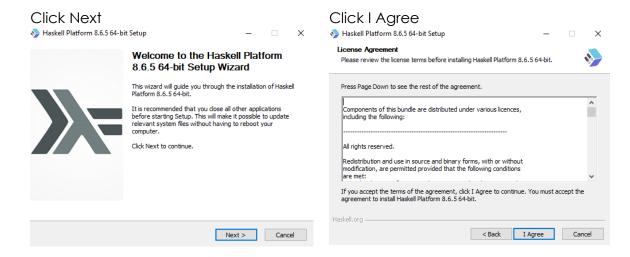
8.2.1, August 2017 ⇒ Linux, 64bit - Linux, 64bit - Linux, 32bit - Linux, 32bit - Mac OS X, 64bit - Mac OS X, 64bit - Windows,

8.0.2-a, May 2017 ⇒ Linux, 64bit - Linux, 64bit - Linux, 32bit - Linux, 32bit - Mac OS X, 64bit - Mac OS X, 64bit - Windows, 3 64bit - Source

8.0.2, January 2017 ⇒ Linux, 64bit - Linux, 64bit - Linux, 32bit - Linux, 32bit - Mac OS X, 64bit - Mac OS X, 64bit - Windows Windows. 64bit - Source

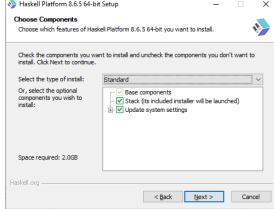
If you are **using Mac OS**, you can **install 8.6.3** and if you are using a **Linux distribution**, please contact with me (<u>zekican.budin@metu.edu.tr</u>)

2. Installation

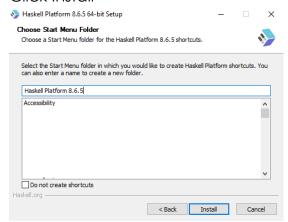


Select a destination and Click Next Haskell Platform 8.6.5 64-bit Setup Choose Install Location Choose Install Location Choose the folder in which to install Haskell Platform 8.6.5 64-bit. Setup will install Haskell Platform 8.6.5 64-bit in the following folder. To install in a different folder, click Browse and select another folder. Click Next to continue. Destination Folder C:\Program Files\Haskell Platform\8.6.5| Space required: 2.0GB Space available: 62.2GB Haskell.org Rake Next > Cancel

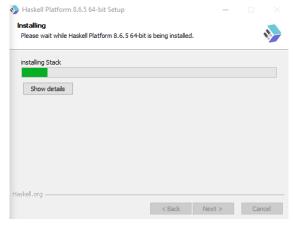
Make sure Standard is selected Haskell Platform 8.6.5 64-bit Setup —



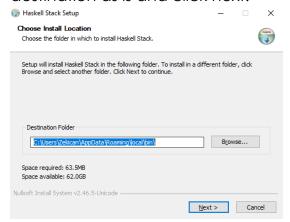
Click Install



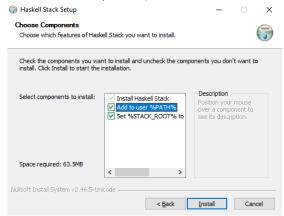
Wait for Installation to end.



While installing the Stack this window will pop-up, leave destination as is and click next.



Make sure you add to user PATH (Middle option has to be selected as shown below) and press install.



3. Starting Out

Windows Button -> Search -> GHCi

```
GHCi, version 8.6.5: http://www.haskell.org/ghc/ :? for help Prelude>
```

4. Simple Arithmetic

```
Prelude> 3 + (5*2) / 2
8.0
```

5. Boolean Algebra

```
Prelude> True || False
True
Prelude> True && False
False
Prelude> True == False
False
Prelude> True /= False
True
Prelude> not False
```

6. Basic Built-in Functions

```
Prelude> min 4 5
4
Prelude> max 10 20
20
Prelude> min 7 (min 5 6)
5
```

References:

Learn You a Haskell < http://learnyouahaskell.com/chapters>