



# Haskell Tutorial

A guide to Haskell basics

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# 1 Installation

Link: <https://www.haskell.org/ghcup/>

I used GHCup to install several components of the Haskell toolchain.

## 1.1 The Haskell Toolchain

The Haskell Toolchain consists of several useful tools for Haskell compilation and development:

- **GHC** - the Glasgow Haskell Compiler;
- **cabal-install** - Cabal installation tool for managing Haskell software;
- **Stack** - a cross-platform program for developing Haskell projects;
  - **Msys2** - provides a UNIX shell and environment which is necessary for executing configuration scripts.
- **haskell-language-server** - a language server which may be integrated into an IDE;

## 1.2 Command

The command to use on Windows (in a normal Powershell instance) is

```
1 Set-ExecutionPolicy Bypass -Scope Process -Force; [System.Net.
  ServicePointManager]::SecurityProtocol = [System.Net.ServicePointManager]::
  SecurityProtocol -bor 3072; try { Invoke-Command -ScriptBlock ([ScriptBlock
  ]::Create((Invoke-WebRequest https://www.haskell.org/ghcup/sh/
  bootstrap-haskell.ps1 -UseBasicParsing))) -ArgumentList $true } catch {
  Write-Error $_ }
```