
Wild Haskell

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Chapter 1

Install Haskell and your first program Guess Number

1.1 Build Tools

Nix Stack

<https://docs.haskellstack.org/en/stable/README/>
make sure 'stack --version' outputs latest stack version, currently 'Version

1.6.5'.

'stack upgrade'

Editor Integration

VScode with haskell-ide-engine

Haskell Syntax Highlight

[haskell-ide-engine](<https://github.com/haskell/haskell-ide-engine>)

Install on MacOS, you need to install 'icu4c' on your machine. "" git clone

<https://github.com/haskell/haskell-ide-engine> cd haskell-ide-engine make ""

""bash stack install hoogle

hoogle generate stack install ""

Stack

""bash stack version

stack upgrade ""

Your first haskell program

```
module Main where
```

```
import           Control.Monad
import           Data.Ord      (compare)
import           System.IO     (readLn)
import           System.Random (randomRIO)
```

```
guess :: Int -> IO ()
guess secretNumber = do
    print "guess a number"
    guessNumber <- readLn :: IO Int
    case compare guessNumber secretNumber of
        LT -> (print "Too Small!") >> (guess secretNumber)
        EQ -> print "You Win!"
        GT -> (print "Too big!") >> (guess secretNumber)

main :: IO ()
main = do
    secretNumber <- randomRIO (0, 100) :: IO Int
    guess secretNumber
```