# Narration&Reference Haskell installation on WSL

Base File Name: NarrationReference\_WSL\_Ubuntu\_Haskell\_ja\_05\_en

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## Haskell installation on WSL

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## **Operating environment**

In this video, I will show you how to install Haskell in Ubuntu on WSL (Windows Subsystem for Linux)

Haskell is a programming language that assembles programs around functions.

For an overview and grammar of Haskell, please refer to Reference of Narration & Reference file.

## **Update for Ubuntu**

First open Ubuntu on WSL.

First, type sudo apt update to get updated information.

Next, type sudo apt upgrade and update the system.

#### **Install Haskell**

First from the command line, type cd /mnt/c to go to the Windows C drive.

Next, type 1s and display the contents of the C drive.

It's OK.

Next, create a directory for Haskell in a specific directory.

Here I created a directory named Haskell under \_\_myprg directory.

Next, we are going to install Haskell.

Type sudo apt install haskell-platform.

Since installation is already finished here, it will end immediately, but it will take some time to install a new one.

#### **Install Stack**

Next we are going to install Stack.

Stack is a tool to create new Haskell projects and build them.

Type sudo apt install haskell-stack.

Since installation is already finished here, it will end immediately, but it will take some time to install a new one.

## **Configuration of Visual Studio Code**

Next we are going to prepare the environment of the editor for editing Haskell's program.

Start Visual Studio Code by typing code . on the command line.

First, click the *Extension* icon on the left and type Haskell in the search box.

Then Haskell Syntax Highlighting will be displayed in the search result, so click install.

When the explanation page of *Haskell Syntax Highlighting* is displayed, click *Reload and Activate* to activate it.

Next, change the setting so that *bash* can be used in the terminal window.

Enter control +, to display the Settings page.

Then type terminal.integrated in the search box.

Then click on Edit setting.json.

Then the contents of the user setting will be displayed on the right side,

Type "terminal.Integrated.shell.windows": "C:\\Windows\\sysnative\\bash.exe",

Then save this file and exit the VS Code once.

Return to the command line and type <code>code</code> . to restart the VS Code.

## **Running the Haskell program**

When the VS Code opens, use the control + BackApostrophe key to open the terminal window.

You can see that *bash* is enabled.

Next, create a simple Haskell program and check startup.

With VS Code, create a new file called hello.hs,

And type main = putStrLn "Hello, World!"

Save this file.

Then in the terminal window,

Type ghc hello.hs -o hello03

ghc is a compiler and hello03 is the name of the executable file generated by compilation.

We are going to execute this file.

Type ./hello03.

You will find Hello, World!.

It is OK.

Next, execute haskell file without specifying an output file.

Type runghc hello.hs.

Hello, World! has been output.

It is OK.

We were able to confirm the installation of Haskell.

Thank you for your watching.

### Reference

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