Learning haskell

- first project where I will read through this awesome book.
- My approach: Reading through the description of the functions and then implementing my version to check against the code sample.
- Trying to get a basic understanding of haskell.

install haskell toolchain

- if you don't have the haskell toolchain installed, run

  ```
  curl --proto '=https' --tlsv1.2 -sSf https://get-ghcup.haskell.org | sh
  ```

  to get ghcup and install the tools.

play around with these functions

- Everything is stored under ./src/CodeBaseLibrary.hs.

- To execute the functions just open the haskell REPL and load the file.

  ```
  ghci
  ghci :l /src/CodeBaseLibrary
  -- you can now use any function defined in the given file.
  ghci map' (+1) [1..10]
  ghci filter' even [1..10]
  ghci filter' (\x -> (mod x 2) == 0) [1..10]
  ghci zip' (filter' even  (map (+3) [1..10])) [200..]
  ghci applyFuncTwice (+3) 2
  ```

- If you change code inside /src/CodeBaseLibrary and want to test it, just use :r /src/CodeBaseLibrary inside the repl to reload the file.

compile haskell project using cabal

```
cabal build
cabal run
```

where to get infos about haskell packages and implementations?

- I currently think hoogle is decent.