Setting up the Go environment

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Installing the Go tools

Get the archive for your system from [golang.org/doc/install](https://golang.org/doc/install).

Extract it somewhere, e.g. `/usr/local`:

```
$ tar -C /usr/local -xzf go$VERSION.$OS-$ARCH.tar.gz
```

Export the path and set the GOROOT environment variable:

(You may want to add commands like the following to `$HOME/.profile`)

```
$ export GOROOT=/usr/local/go
$ export PATH=$PATH:$GOROOT/bin
```

Test your installation

```
$ go version
$ go env GOROOT
```
Creating a Workspace

A workspace is a directory hierarchy with three directories at its root:

```
gocode/
├── src/ # contains Go source files,
├── pkg/ # contains package objects, and
└── bin/ # contains executable commands.
```

The `go` tool builds source packages and installs the resulting binaries to the pkg and bin directories.

Set the GOPATH environment variable to specify the location of your workspace, e.g.:

```
$ export GOPATH=$HOME/gocode
```
Creating and Running Go Programs

Create a new package directory inside your workspace, e.g.

```bash
$ mkdir -p $GOPATH/src/go-tutorial17/hello/
```

Create a file named `hello.go` inside that directory, containing the following Go code

```go
package main

import "fmt"

func main() {
    fmt.Printf("What is a Gopher?\n")
}
```

Run the program

```bash
$ go run hello.go
```
References

Installing Go
golang.org/doc/install (https://golang.org/doc/install)

Setting up a workspace
golang.org/doc/code.html#Workspaces (https://golang.org/doc/code.html#Workspaces)
Thank you

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