



Maps

Maps are like special dictionaries that help you find information quickly. They work by pairing up two things: **a key** (like a word you want to look up) **and a value** (like its definition).



Maps Intialization

```
main.go

package main
import "fmt"

func main() {
    codes := map[string]string{"en":
"English", "fr": "French"}

    fmt.Println(codes)
}

>>> go run main.go
map[en:English fr:French]
```

- Name of the map
- Map Declaration
- Key and Value data types
- Output

Accessing a map

```
main.go

package main
import "fmt"

func main() {
    codes := map[string]string{"en":
"English", "fr": "French", "hi":
"Hindi"}

    fmt.Println(codes["en"])
    fmt.Println(codes["fr"])
    fmt.Println(codes["hi"])
}

>>> go run main.go
English
French
Hindi
```

- Name of the map
- Key name
- Output

Getting a key

```
main.go

package main
import "fmt"

func main() {
    codes := map[string]int{"en": 1,
"fr": 2, "hi": 3}
    value, found := codes["en"]
    fmt.Println(found, value)
    value, found = codes["hh"]
    fmt.Println(found, value)
}

>>> go run main.go
true 1
false 0
```

- Value
- Boolean
- Output



The order of elements in a map is not guaranteed to be the same as the order in which they were added. **Maps in Go are unordered collections.**



Adding key-value pair

```
package main
import "fmt"

func main() {
    codes := map[string]string{"en":
"English", "fr": "French", "hi": "Hindi"}

    codes["it"] = "Italian"
    fmt.Println(codes)
}
```

```
go run main.go
map[en:English fr:French hi:Hindi
it:Italian]
```

- New index key + value
- Output

Update key-value pair

```
package main
import "fmt"

func main() {
    codes := map[string]string{"en":
"English", "fr": "French", "hi":
"Hindi"}
    codes["en"] = "English Language"
    fmt.Println(codes)
}
```

```
>>> go run main.go
```

```
map[en:English Language fr:French
hi:Hindi]
```

- Key name
- New Value
- Output

Delete a key-value pair

- Built in delete method
- Name of the map
- Key we want to delete
- Output

```
package main
import "fmt"

func main() {
    codes := map[string]string{"en":
"English", "fr": "French", "hi":
"Hindi"}

    fmt.Println(codes)
    delete(codes, "en")
    fmt.Println(codes)
}
```

```
>>> go run main.go
```

```
map[en:English fr:French hi:Hindi]
map[fr:French hi:Hindi]
```



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