



ARRAYS SLICES • MAPS

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

```
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

```
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

```
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.







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Adding key-value pair

```
main.go
  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
```

Update key-value pair

```
main.go
package main
import "fmt"
func main() {
  codes := map[string]string{"en":
"Engligh", "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

Output

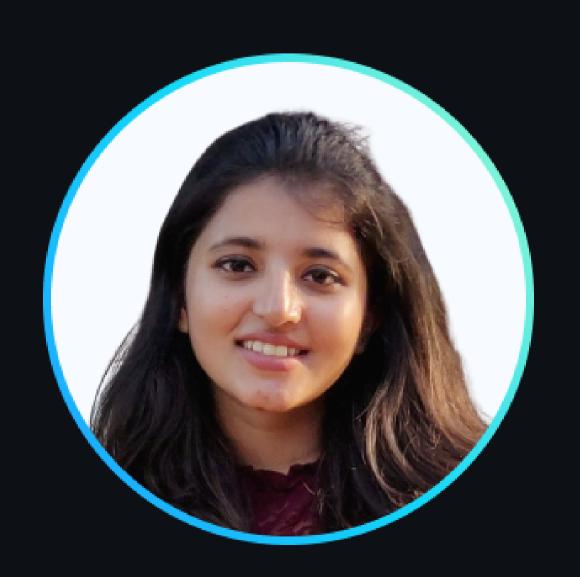




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