

Map Collection Class:

Map collection allows us to manage a collection of elements, where each element contains **KEY** and **VALUE**.

- ✓ Map is a collection of **Key – Value** pairs.
- ✓ Keys are always unique having a value associated.
- ✓ Values can be duplicate.
- ✓ Key and Value can be either Primitive / SObject / Apex / Collection / User Defined type.
- ✓ Each Element can be identified by using **KEY**.
- ✓ It will arrange the elements inside the collection based on the **KEY** in Sorting order.
- ✓ Map is an Unordered collection.
- ✓ Map Collection maintains the uniqueness, based on the **KEY**. Hence map collection doesn't allow duplicate elements.

Syntax:

```
Map<KeyDatatype, ValueDatatype> <objName> = new Map<KeyDatatype, ValueDatatype>();
```

Example:

```
Map<Integer, Integer> customerCodes = new Map<Integer, Integer>();
```

```
Map<Id, String> recordDetails = new Map<Id, String>();
```

```
Map<String, String> countryCodes = new Map<String, String>();
```

```
Map<Id, Account> accountMap = new Map<Id, Account>();
```

```
Map<Id, Position__c> positionMap = new Map<Id, Position__C>();
```

```
Map<Account, List<contact>> contactsMap = new Map<Account, List<contat>>();
```

Methods:

Map Collection provides a set of instance methods, to manage the elements as below.

```
Map<String, String> fruitMap = new Map<String, String>();
```

▪ Put(<Key>, <Value>):

This Method is used to add a New Element to the collection.

Ex: `fruitMap.put('Green','Apple');`



```
fruitMap.put ('Red', 'Apple');  
fruitMap.put ('Yellow', 'Banana');
```

- **PutAll (<Map Collection>):**

This method is used to add a collection of elements from one Map to another Map Collection.

Ex: `fruitMap.PutAll(<MapCollectionName>);`

- **Integer Size ():**

This method is used to get the collection size.

Ex: `fruitMap.size();`

- **Boolean isEmpty ():**

This method is used to check, whether the specified collection is Empty or Not.

Ex: `fruitMap.isEmpty();`

- **Get(<keyName>):**

This method used to get the value of the specified key.

Ex: `fruitMap.get('Yellow');`

- **Boolean containsKey(<keyName>):**

This method is used to check, whether the specified key is exist inside the collection or not. It returns TRUE, when the key found. Else it returns FALSE.

Ex:

```
if (fruitMap.containsKey("Red")) {  
    System.debug('Element value is:::: ' +fruitMap.get('Red'));  
}  
  
Else {  
    System.debug('Element Not found::::');  
}
```

- **Remove(<KeyName>):**



By using this method, we can remove the element associated with the specified **KEY**.

```
Ex: if(fruitMap.containsKey('Red')){  
    fruitMap.Remove('Red');  
} Else {  
    System.debug('invalid key.');
```

- **Clear ():**

This method will remove all the elements from the collection.

```
Ex: fruitMap.clear();
```

- **Set<Datatype> Keyset ():**

This method will return all the keys exist inside the collection

```
Ex: Set<String> keyCollection = fruitMap.keySet();
```

- **List <Datatype> Values ():**

This method will return all element values exist in the collection.

```
Ex: List<String> valuesCollection = fruitMap.Values();
```

- **Boolean Equals(<SourceCollection>):**

This method is used to compare the Two Map Collections. And it will return TRUE, when both the Map Collections are identical. Else it returns FALSE.

```
Ex: fruitMap.Equals(<sourceMapCollectionName>);
```

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