

Writing a Protobuf file

The Protobuf file acts as a blueprint for our data.

".Proto" is the extension of Proto files

The Proto file starts with Syntax declaration

Syntax = "Proto3";

Package keyword can be used grouping messages and to avoid problems with Naming Conventions.

Package Company-name.Projectname.
SubPackage

E.g :- Com.hansa.all

☆ We cannot declare multiple Packages in the same Proto file

Message :

Messages are the data structures to hold our data.

message MessageName {

```

        datatype    key    = Field-identification
                           -number
        :
    }

```

Eg 1 message User {
 'int32 id = 1
 String name = 2
 }

Data Types in Proto files

1. Primitives

```

'int32, int64
bool
String
Bytes : Raw byte sequence
double, float

```

2. Enum

```

enum Color {
    RED = 0
    GREEN = 1
}

```

3. Maps

```

map<String, 'int32'> Ph-no = '12';

```

4. Repeated fields

Allows storing multiple values of same type

String hobbies = field_id
repeated;

★ we can also nest one message inside another

```
Message Address {  
  String Street = 1;  
  String City = 2;  
}
```

```
Message User {  
  int32 id = 1;  
  String name = 2;  
  Address address = 3;  
}
```

Import Keyword

Using import keyword we can import messages from one proto to another

import "filename.proto"