

# Managing Message Revisions

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# Overview



**Reserved Fields**

**Rules and Recommendations**



# Reserved Fields

```
message Foo {  
    int32 id = 1;  
    string name = 2;  
}
```

```
message Foo {  
    int32 id = 1;  
    string email = 2;  
    string first_name = 3;  
    string last_name = 4;  
  
}
```

# Reserved Fields

```
message Foo {  
    int32 id = 1;  
    string name = 2;  
}
```

```
message Foo {  
    int32 id = 1;  
    string email = 5;  
    string first_name = 3;  
    string last_name = 4;  
    reserved 2;  
}
```



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reserved 1;

reserved 1, 2, 3;

reserved 5 to 10;

reserved 2, 4, 15 to 25;

# Reserved Fields

```
message Foo {  
    int32 id = 1;  
    string full name = 2;  
}
```

```
{  
  "id": 42,  
  "fullName": "...",  
}
```

```
message Foo {  
    int32 id = 1;  
    string full_name = 5;  
    string first_name = 3;  
}
```

```
{  
  "id": 42,  
  "fullName": "...",  
  "firstName": "...",  
  "lastName": "...",  
}
```



# Reserved Fields

```
message Foo {  
    int32 id = 1;  
    string full_name = 2;  
}
```

```
message Foo {  
    int32 id = 1;  
    string whole_name = 5;  
    string first_name = 3;  
    string last_name = 4;  
    reserved "full_name"  
}
```



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reserved “field\_name”;

reserved “first\_field”, “second”;



Demo with reserving tags  
and field names  
also throw in  
[deprecated=true]





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Don't change tags for existing fields

Reserve old tags and field names

Prefix old field names with OBSOLETE\_



# Compatible Types

int32, uint32, int64, uint64,  
bool

sint32, sint64

string, bytes

fixed32, sfixed32, fixed64,  
sfixed64



# Summary



**Reserved Fields**

**Reserved Tags**

**Rules and Recommendations**

