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Fields

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What is Field

- Variables that are declared in the class; stored in the objects.
- Isolated for each object.

Field Declaration Syntax

accessModifier modifier dataType FieldName;

1. private
2. protected
3. private protected
4. internal
5. protected internal
6. public

1. static
2. const
3. readonly

Static fields are common to all objects.
Accessible with class name.

Const field's value can't be modified.
Compiler replaces all constant names with respective value.
Const is by default "static".

Readonly field's value can't be modified.
Compilation-time restriction only.

Access Modifiers of Fields

| Access Modifier | In the same class | In the child classes at the same project | In the other classes at the same project | Child classes at other projects | Other classes at other projects |
|--------------------|-------------------|--|--|---------------------------------|---------------------------------|
| private | Yes | No | No | No | No |
| protected | Yes | Yes | No | Yes | No |
| private protected | Yes | Yes | No | No | No |
| internal | Yes | Yes | Yes | No | No |
| protected internal | Yes | Yes | Yes | Yes | No |
| public | Yes | Yes | Yes | Yes | Yes |