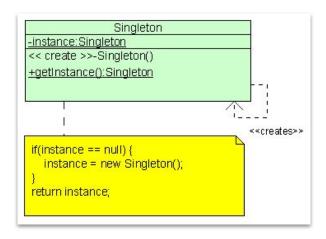
#### **Basic Implementation:**

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Classic Approach

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Classic Approach in Dart

```
Singleton s = Singleton.instance;
```

```
class Singleton {
 /// eager instantiation
  static final Singleton instance = Singleton. internal();
  111
  /// generative constructor called internally
  Singleton. internal() {
   // simple test for creation
   debugPrint('Creating an instance of Singleton');
     factory constructor, should return same instance
  factory Singleton() {
    return instance;
```

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```
Singleton

<final >>-_instance:Singelton = Singelton_internal()
+Singelton():factory
-Singleton_internal()

factory keyword in Dart

</p
```

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     factory constructor, should return same instance
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```

#### **Usage Example:**

```
Logger? _logger;
final _dateFormatter = DateFormat('H:m:s.S');
const appName = 'my_app';

Logger.root.level = Level.ALL;
Logger.root.onRecord.listen((LogRecord rec) {
    print('${_dateFormatter.format(rec.time)}: ${rec.message}');
    }
);
_logger = Logger(appName);
```

```
_logger?.info(message, error, stackTrace);
```

#### **Usage Example:**

```
final logger = DebugLogger();
logger.log('some message');
```

```
class DebugLogger {
 static DebugLogger? instance;
 static Logger? logger;
 static final dateFormatter = DateFormat('H:m:s.S');
 static const appName = 'my app';
 DebugLogger. internal() {
   Logger.root.level = Level.ALL;
   Logger.root.onRecord.listen( recordHandler);
    logger = Logger(appName);
    instance = this;
 factory DebugLogger() => instance ?? DebugLogger. internal();
 void recordHandler(LogRecord rec) {
   print('${ dateFormatter.format(rec.time)}: ${rec.message}');
 void log(message, [Object? error, StackTrace? stackTrace]) =>
      logger?.info(message, error, stackTrace);
```