

Java var

Cleaner code or hidden confusion?
(Java 10+)

What is var?

var lets Java **infer the type** at compile time.

```
var name = "Alan";  
var count = 10;
```

💡 This is **static typing**, not dynamic typing.

WHEN to Use var

Obvious types

```
var users = userRepository.findAll();  
var map = new HashMap<String, Integer>();
```

- ✓ Type is clear
- ✓ Reduces noise
- ✓ Improves readability

WHEN NOT to Use var

Unclear types

```
var result = service.process(); // ✗
```

Questions:

- What is result?
- DTO? Entity? Boolean?

👎 Hurts readability

WRONG: var with null

```
var value = null; // ✗ Compile-time error
```

- 🚫 Java cannot infer type
- 🚫 Forces bad design decisions

Spring Boot: Good Example

Service layer

```
var user = userRepository.findById(id)  
    .orElseThrow();
```

- ✓ Type is obvious
- ✓ Cleaner service code
- ✓ No loss of clarity

Spring Boot: Bad Example

Controller logic

```
var response = buildResponse(data); // ✗
```

- 👎 Hides intent
- 👎 Makes APIs harder to read

Quick Rules to Remember

- ✓ Use var when the type is obvious
- ✗ Avoid when it hides meaning
- ✗ Avoid in public APIs
- ✗ Avoid with complex generics (unless obvious)
- | 👉 If var hurts readability, don't use it.

Java allows var
doesn't mean
you should use it
everywhere.

IF YOU FIND THIS HELPFUL, LIKE AND
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