

# 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.

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