## Code Readability Testing

### Is your code readable?

### Problem

- Readability directly affects the cost of adding features and fixing bugs
- Few SE techniques provide feedback

### Experiment

- 21 programmers provide “production ready” code
- Follow Code Readability Testing
- Four sessions per programmer yielding 84 sessions

### 1. Created Readability Definition

- Readability is the amount of mental effort required to read code

### 2. Skill Improvements

- 50% of programmers who wrote “unreadable” code wrote “readable” code after four sessions

![Graph showing improvement from Session 1 to Session 4 for Programmer #11.](https://example.com/graph)

### 3. Frequent Fixes

In 84 sessions, programmers needed to
- Improve variable names (45 sessions)
- Improve method names (25 sessions)
- Create methods to reduce code duplication (26 sessions)
- Simplify if conditions (10 sessions)
- Simplify if nesting (11 sessions)
- Simplify loop conditions (11 sessions)

### Conclusion

- Code Readability Testing...
  - Reveals readability of code
  - Improves skills for writing readable code

### Contact

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