

# Translator



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# FACT.

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- ❖ 6724 lines
- ❖ 150 hours of group meetings
- ❖ More than 50 liters of coffee
- ❖ 76 test cases



# How it works.

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- ❖ Translator
- ❖ Dependency Resolver
- ❖ Type Parser - Static type analysis
- ❖ Class Layout Parser - Inheritance analysis and VTable construction
- ❖ Leaf Transplant - Java to C++ AST Translation
- ❖ CPP Printer - C++ Pretty Printer



# Challenges.

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- ❖ Catching up on our midterm project
- ❖ Understanding C++ syntactical nuances
- ❖ Not enough time to implement and debug
- ❖ Exploring the full implications of method overloading and method chaining
- ❖ Balancing beautiful code with making it work



# CEMO

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- ❖ Commented Test.java : 7/76 }:-(  
❖ With some help : 46/76



# Why it doesn't work.

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- ❖ Avoided tackling big issues in favor of getting a basic translation working.
- ❖ Debugging merges was exhausting
- ❖ We didn't write sufficiently evil test cases
- ❖ Overwhelmed by features and had difficulty focusing



# Tricky Tradeoffs.

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- ❖ We valued breadth over depth when implementing features. Unfortunately, the test cases valued both! }:-)
- ❖ We prioritized getting compilable code rather than runnable code! }:-)



# Suggestion.

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- ❖ More frequent test cases to benchmark our progress. e.g. at the Midterm.



Question.