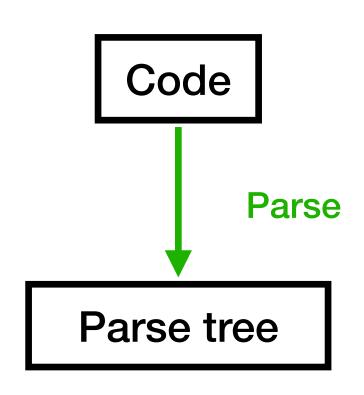
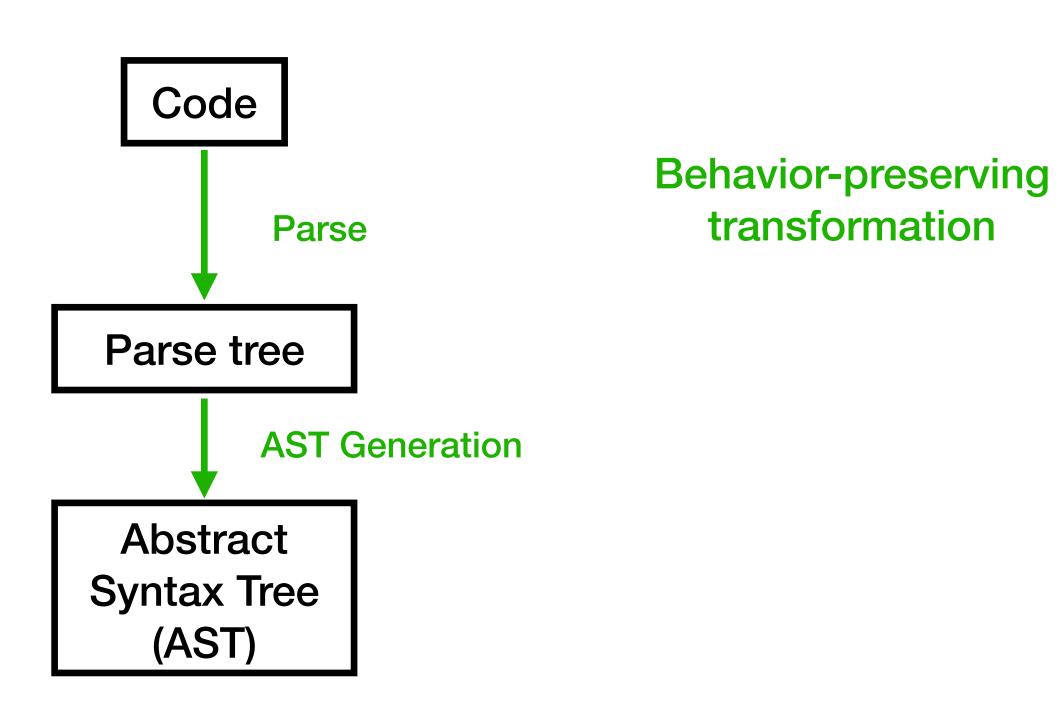
LLVIVI & Industry

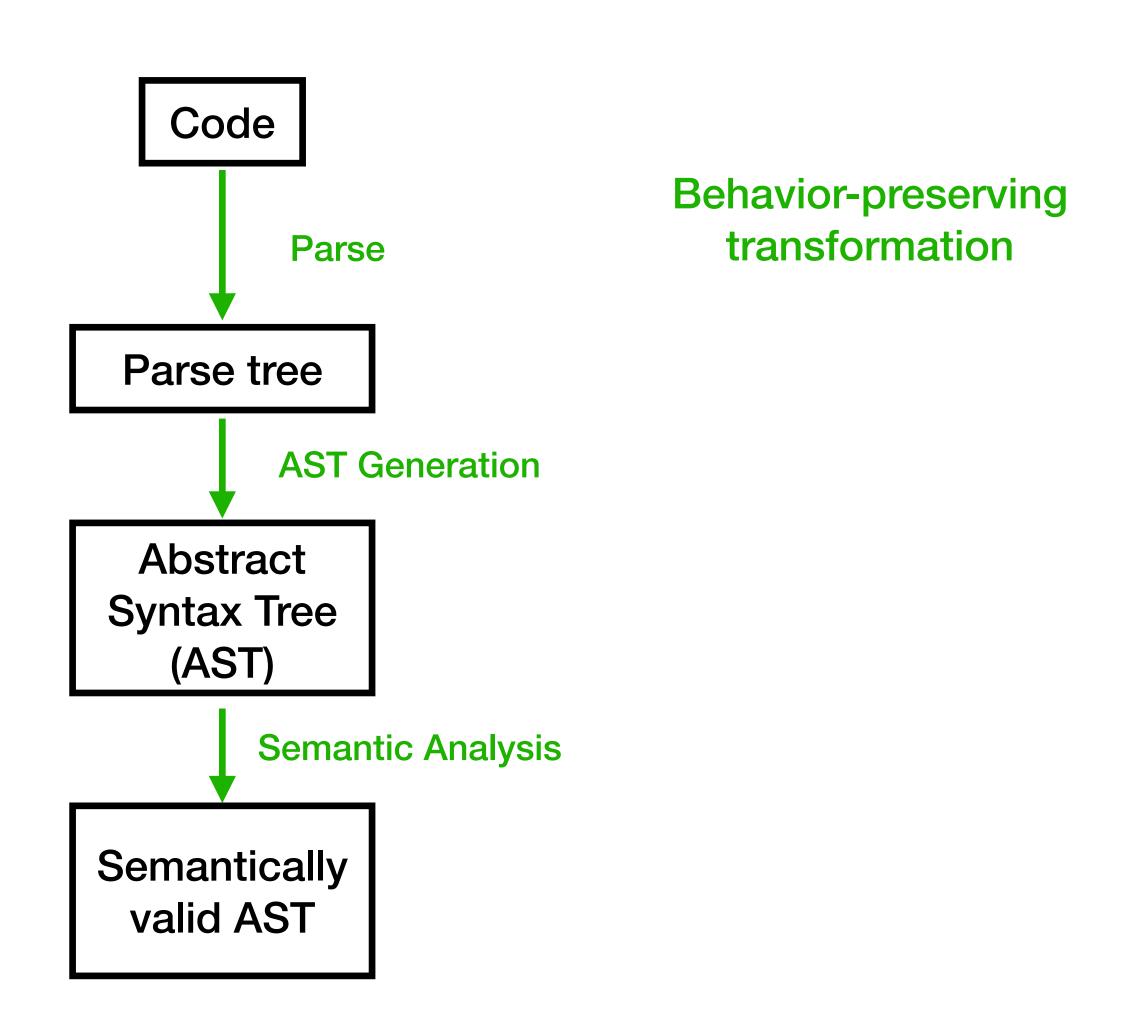


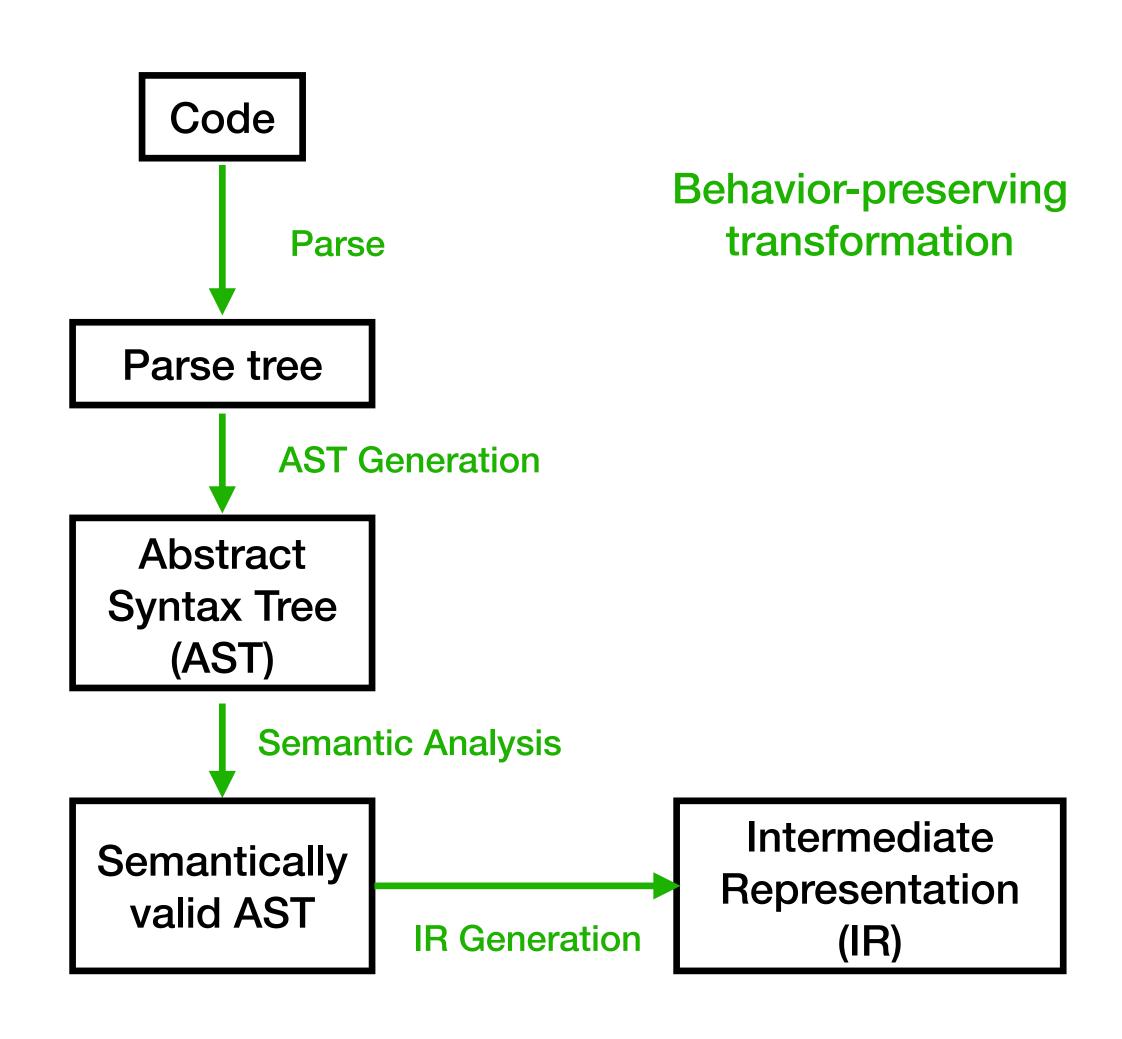


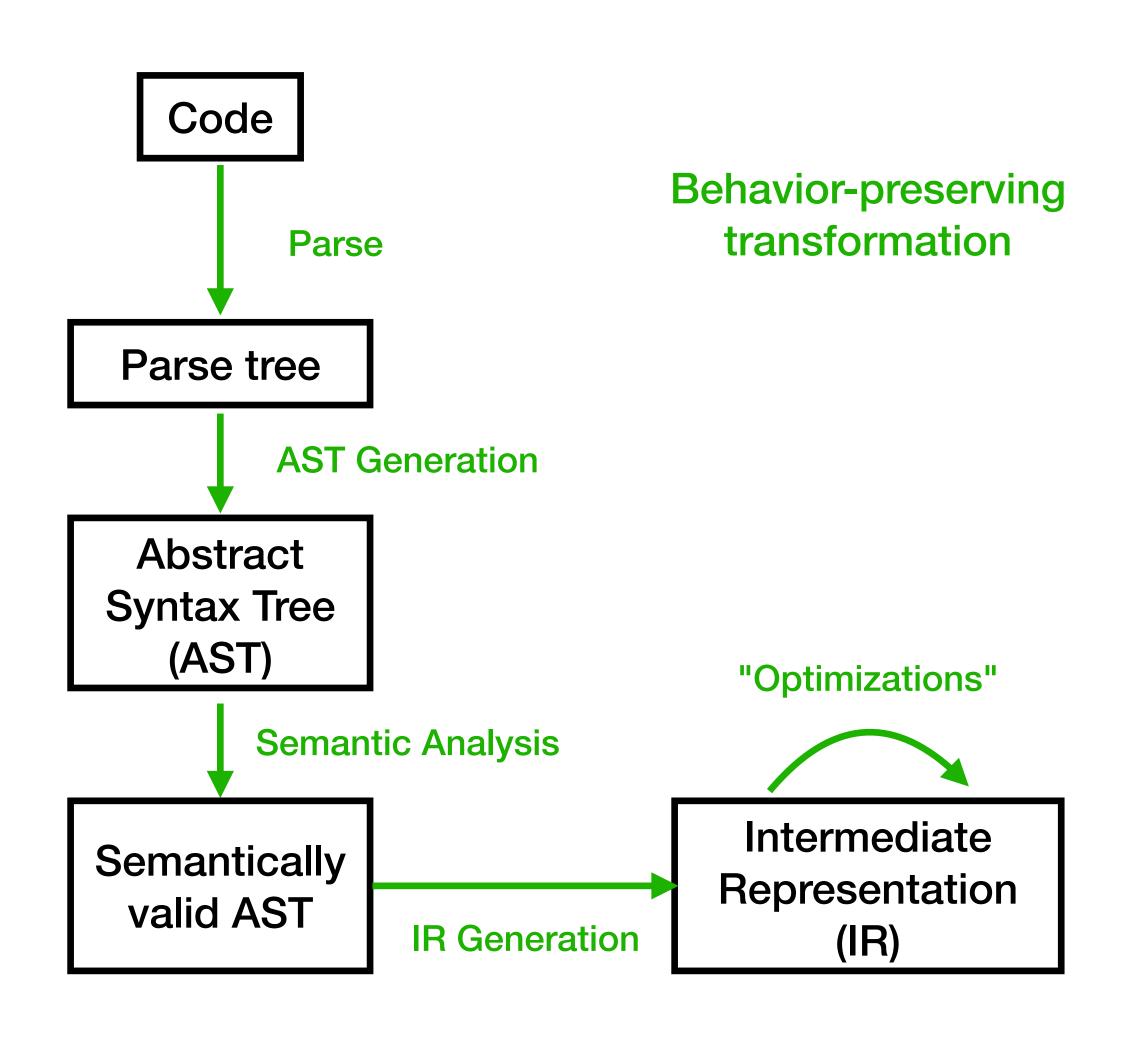


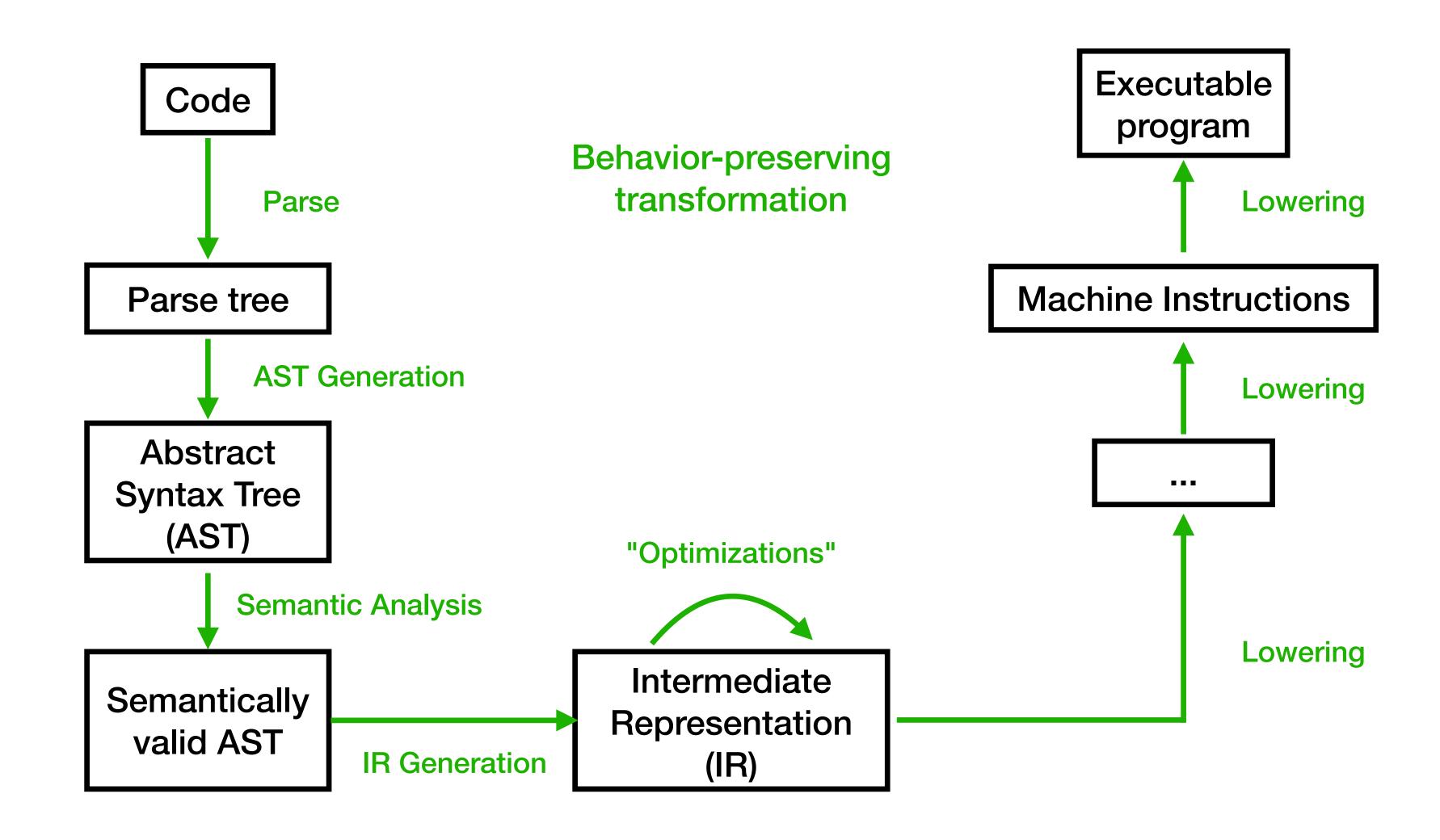
Behavior-preserving transformation

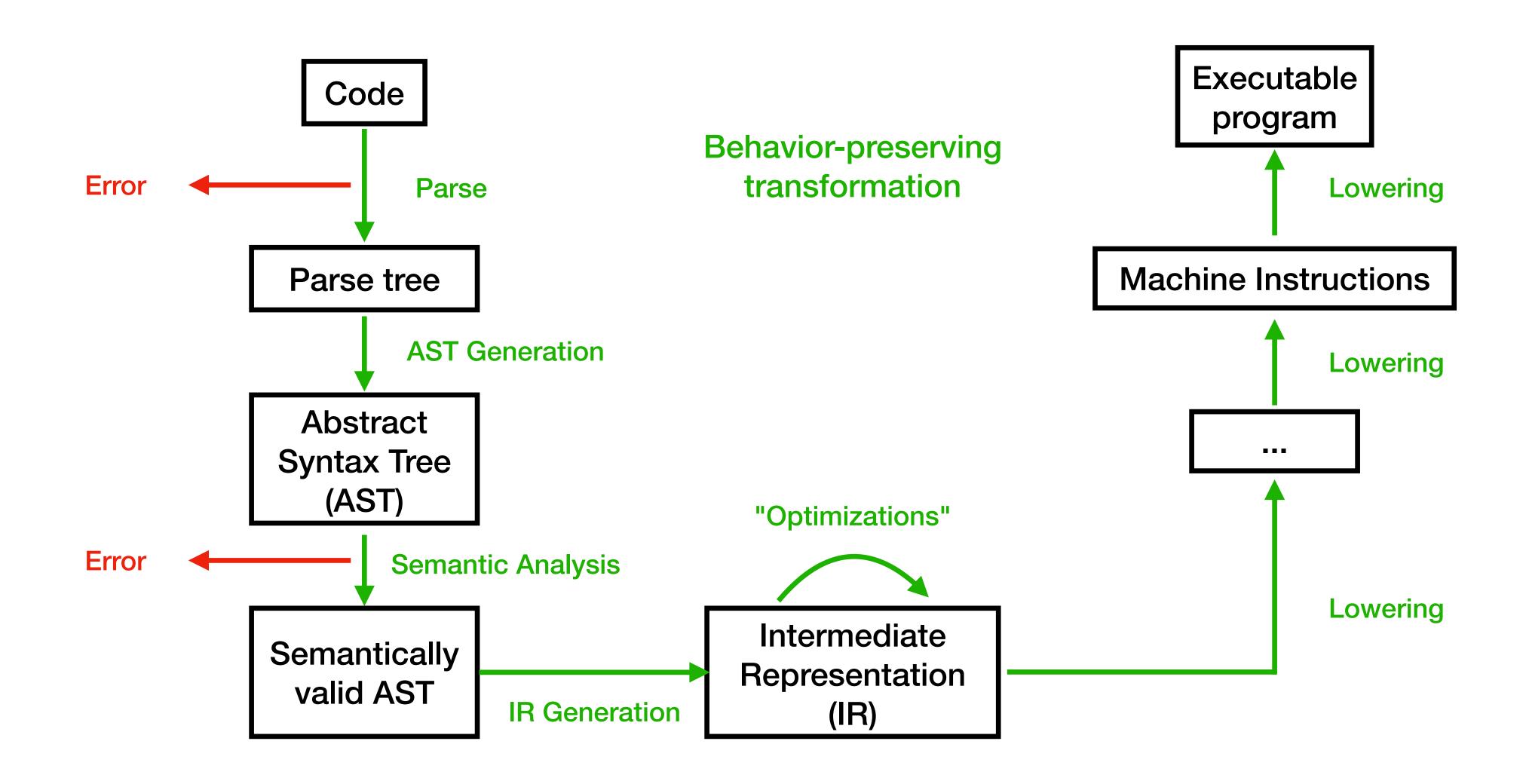


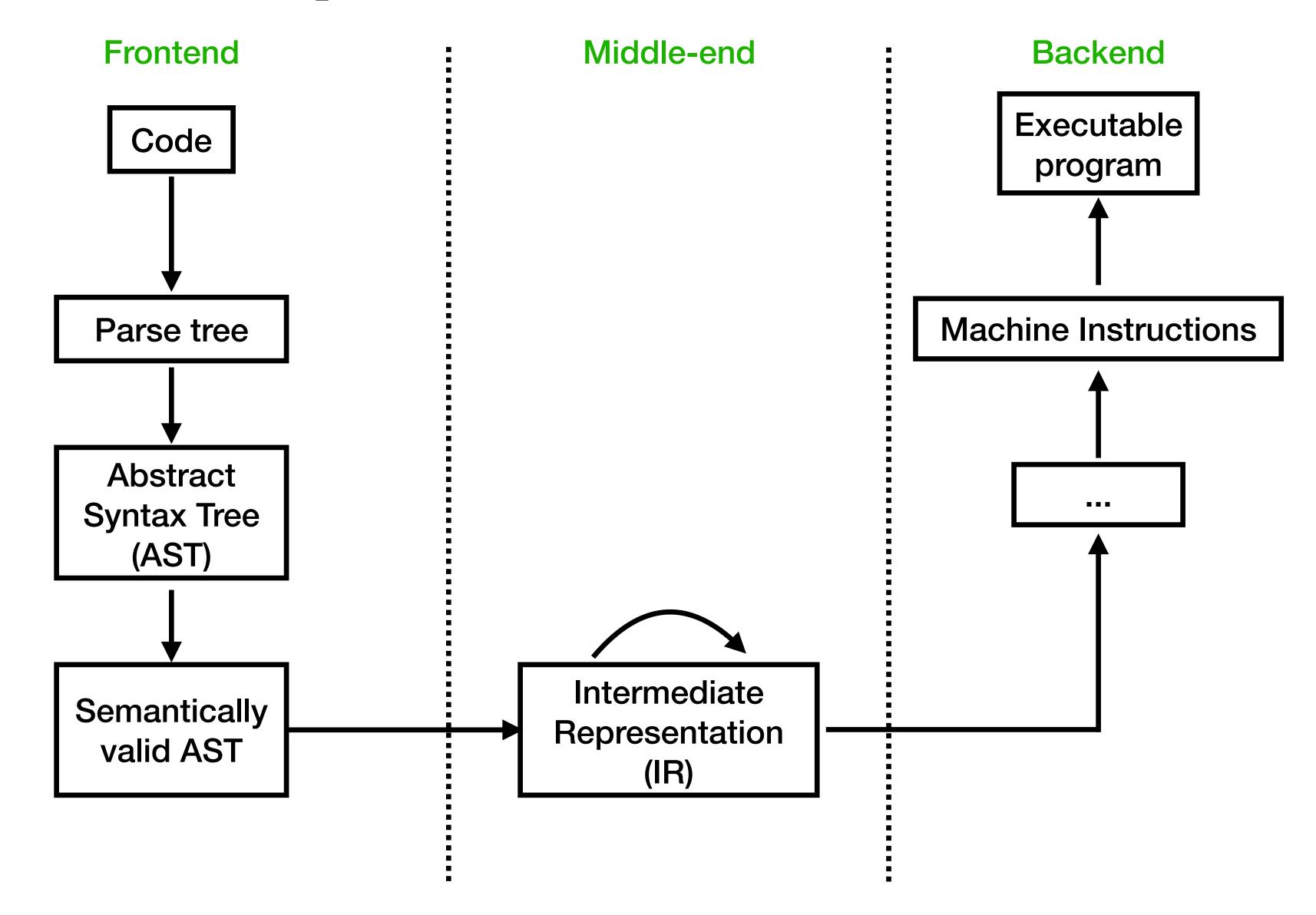


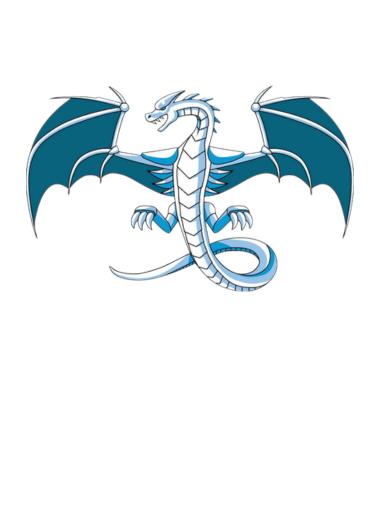














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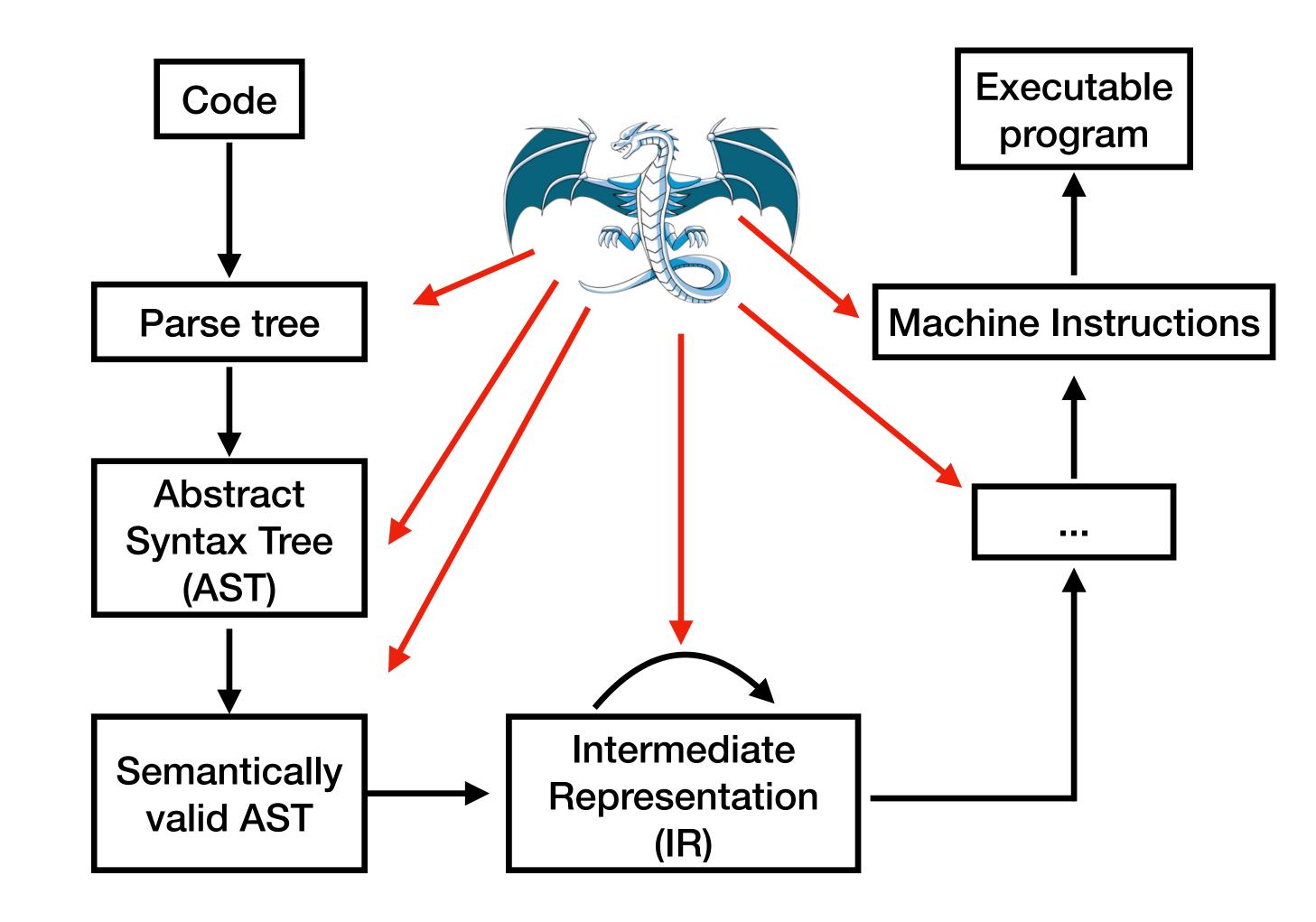
- Created in 2000 by Chris Lattner
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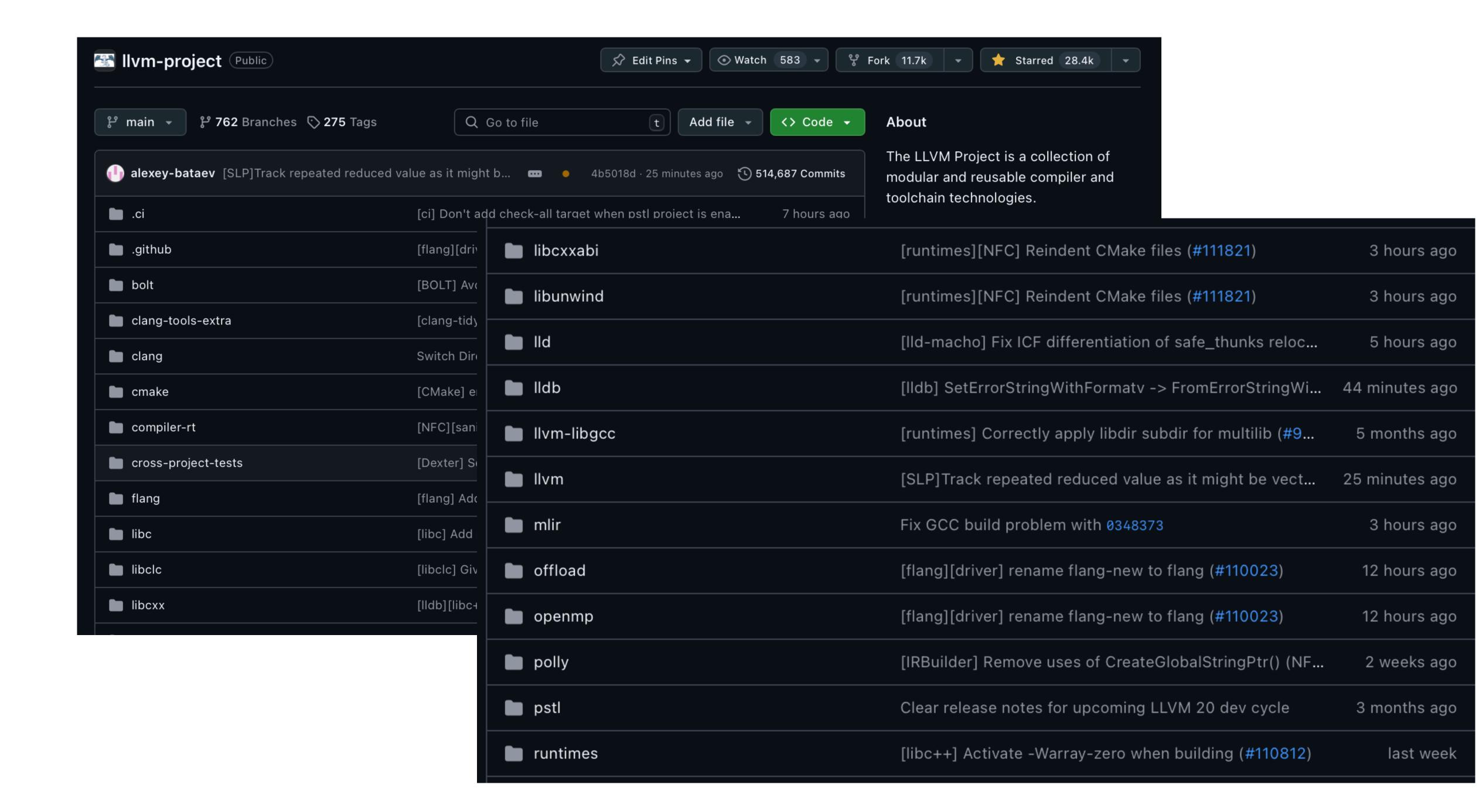


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- Compiler as a collection of reusable C++ libraries

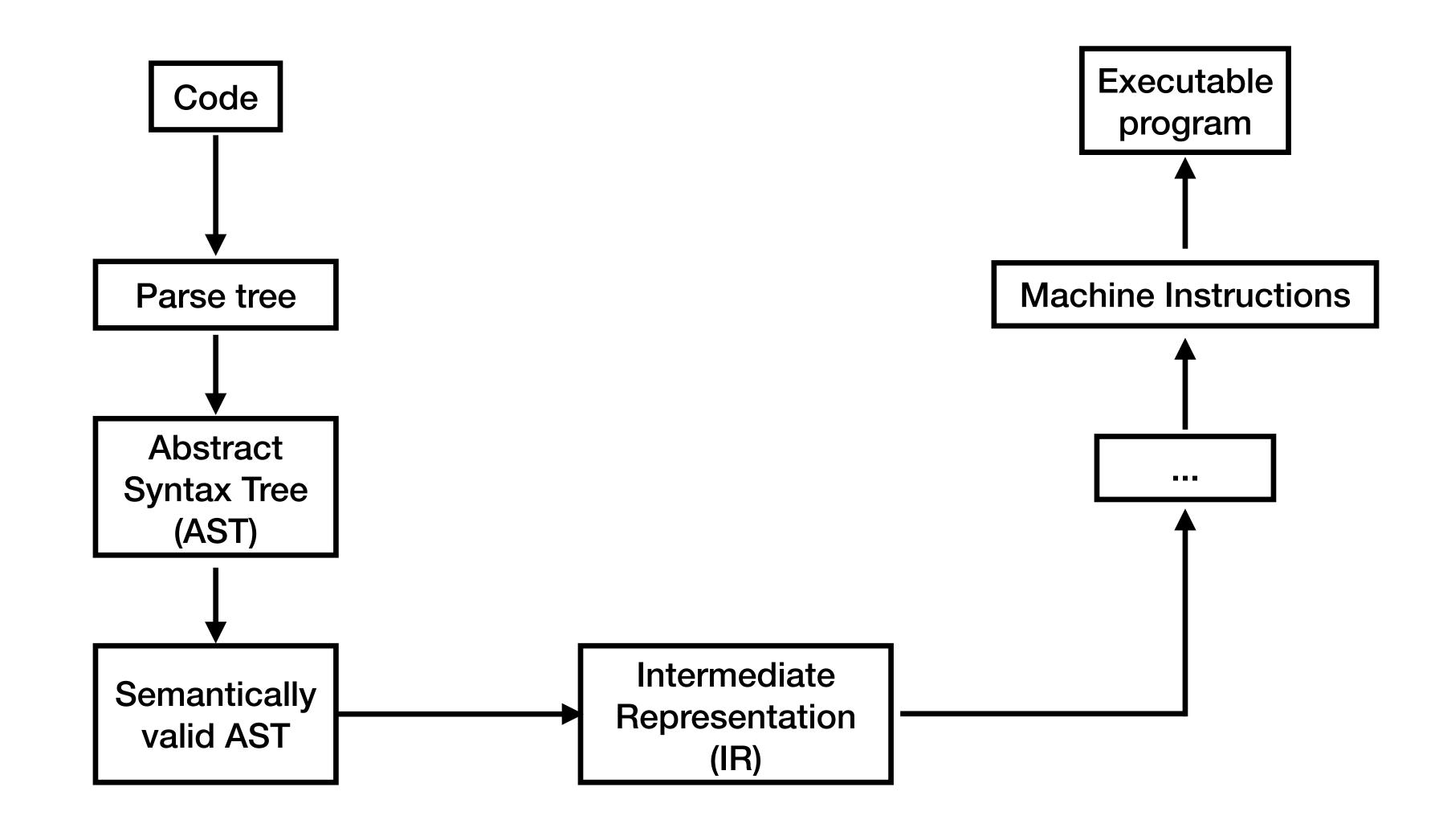


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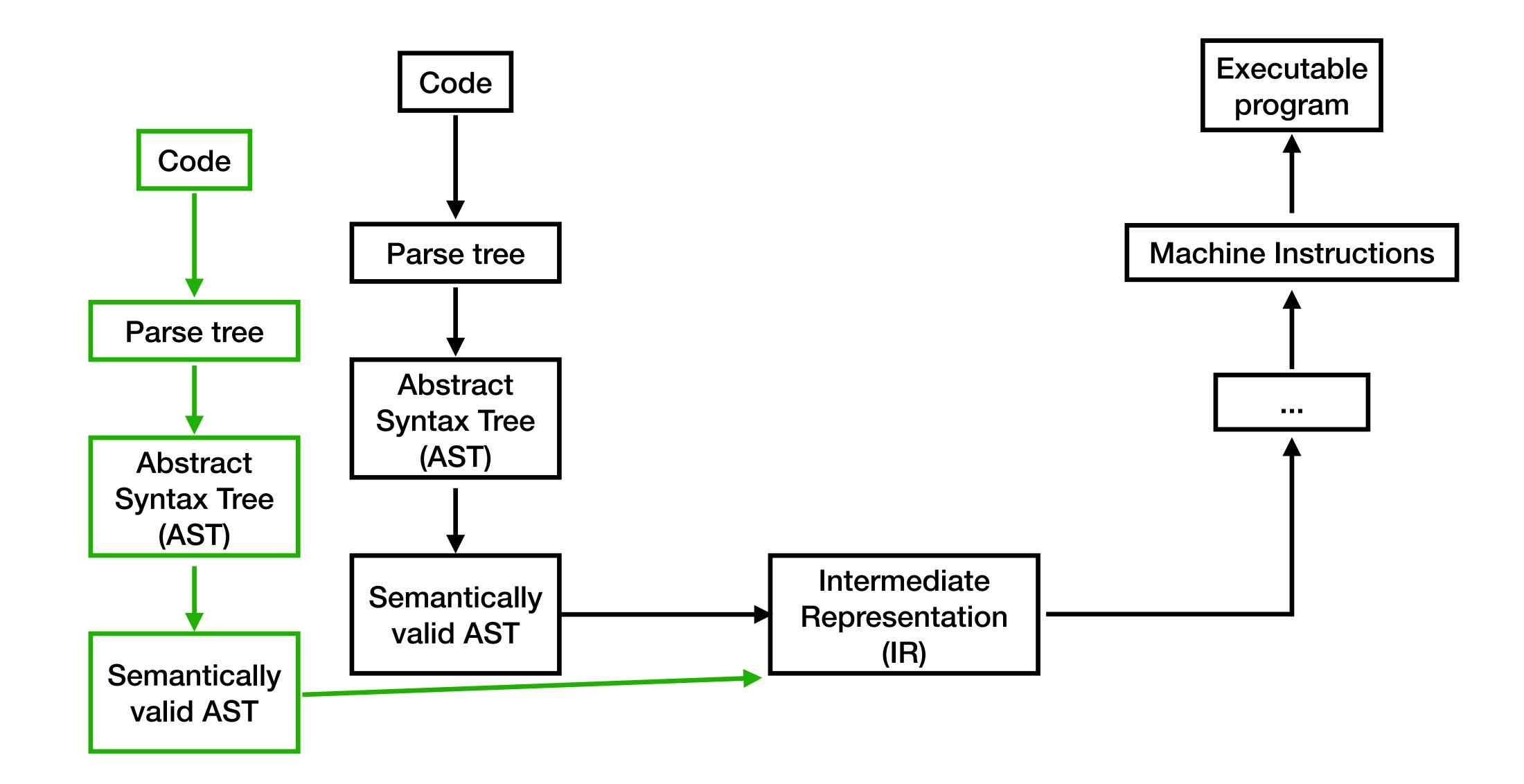




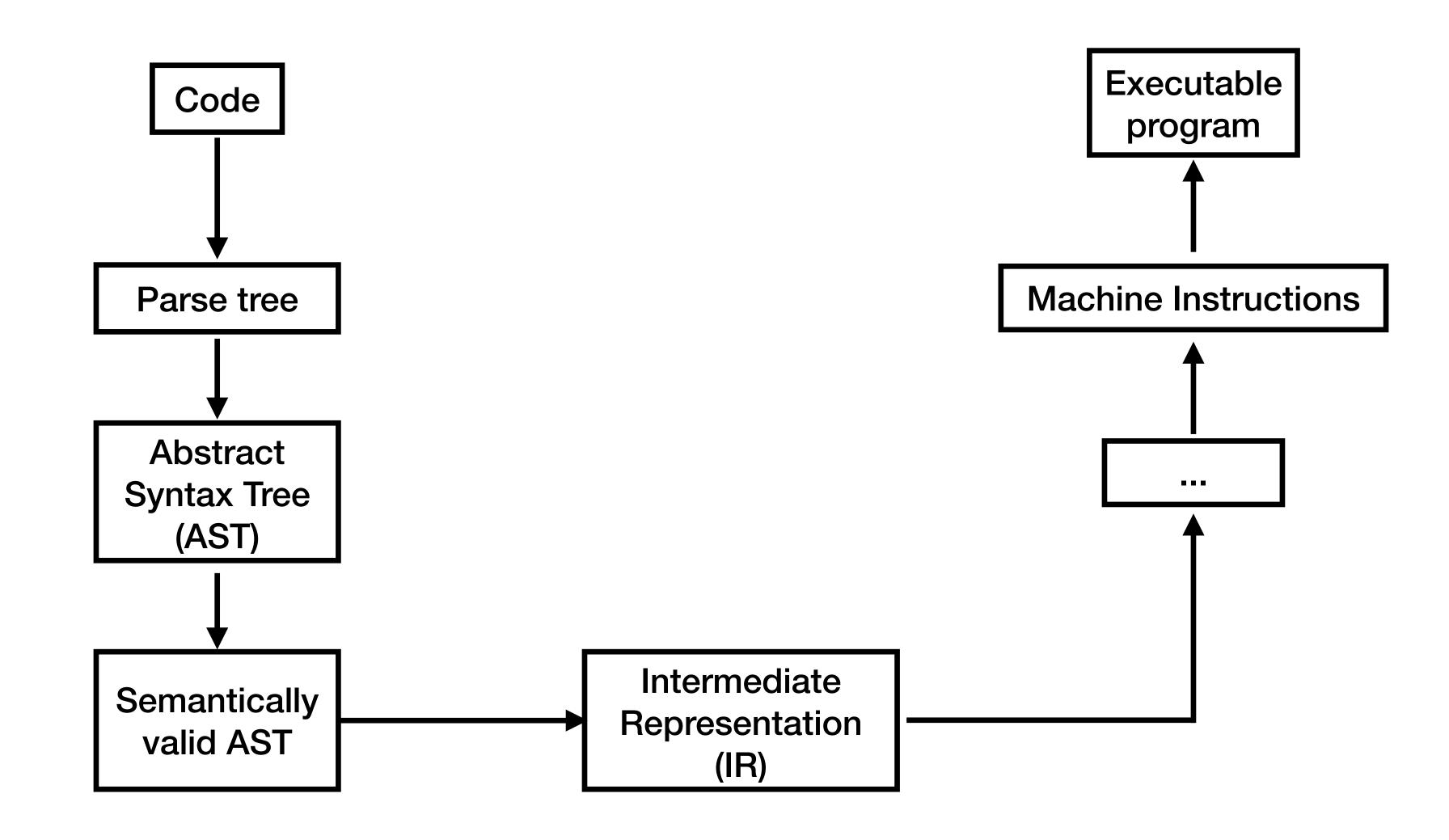
Adding a new language



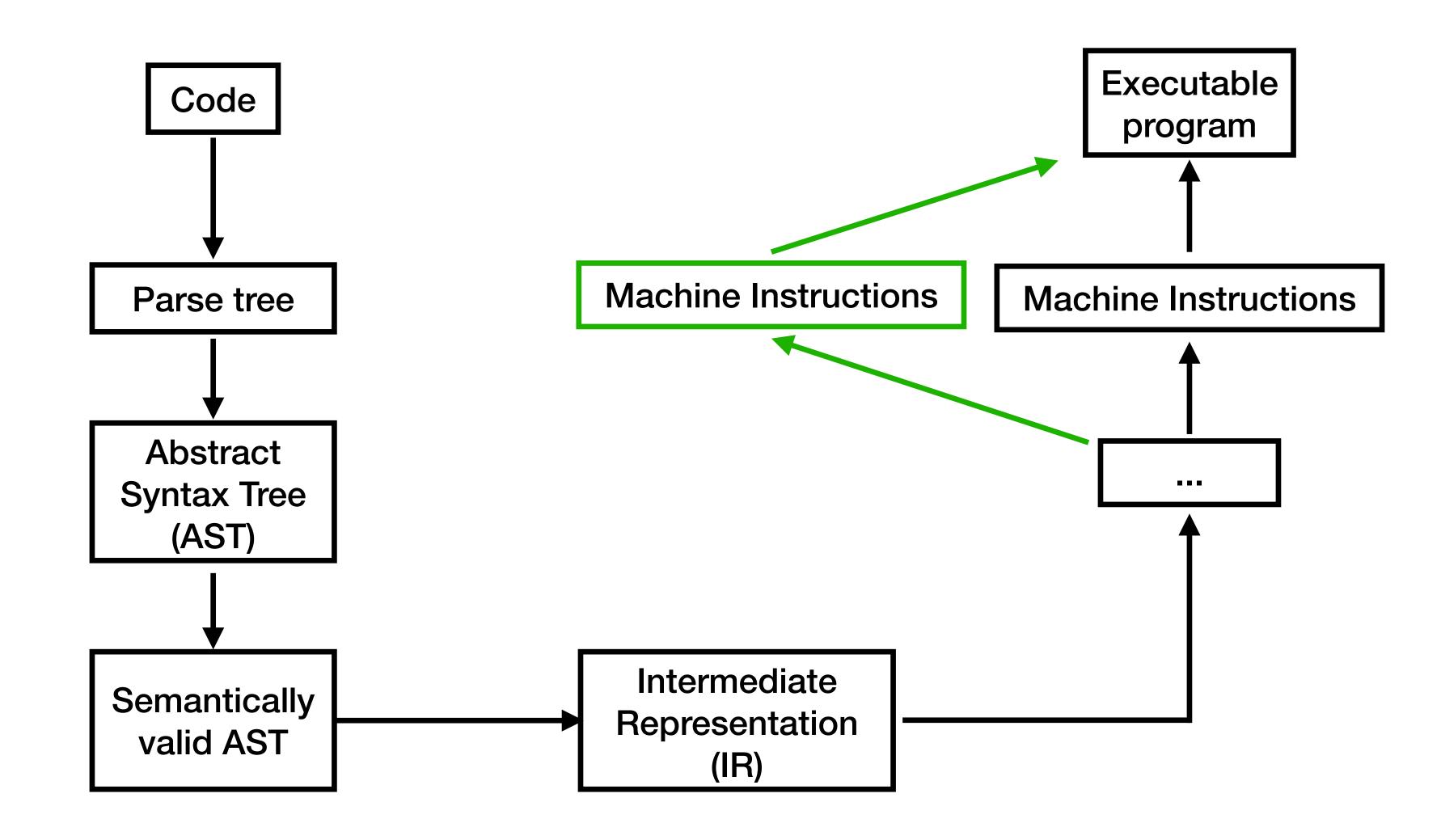
Adding a new language



Adding a new target



Adding a new target





GCC code is arcane



GCC code is arcane

GNU updated its license



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Companies all had their own compiler => slow/expensive

GCC code is arcane

GNU updated its license

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Explosion of architectures: GPGPUs, TPUs, custom Al hardware

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Domain-specific languages

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Lots of new modern
Programming
Languages

LLVM & Industry

All major companies adopt and contribute publicly to LLVM.





















grog

