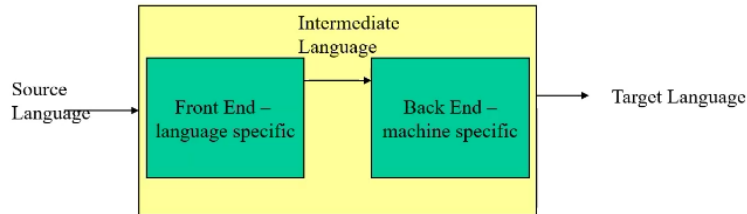


Compiler Architecture

In more detail:



- Separation of Concerns
- Retargeting

ct 22001 compiler construction

7

Participant list:

- NAGARGOJ...
- VAIBHAV G...
- SHUBHAM ...
- Soma Ghosh
- SHITU SHAI...
- Participants

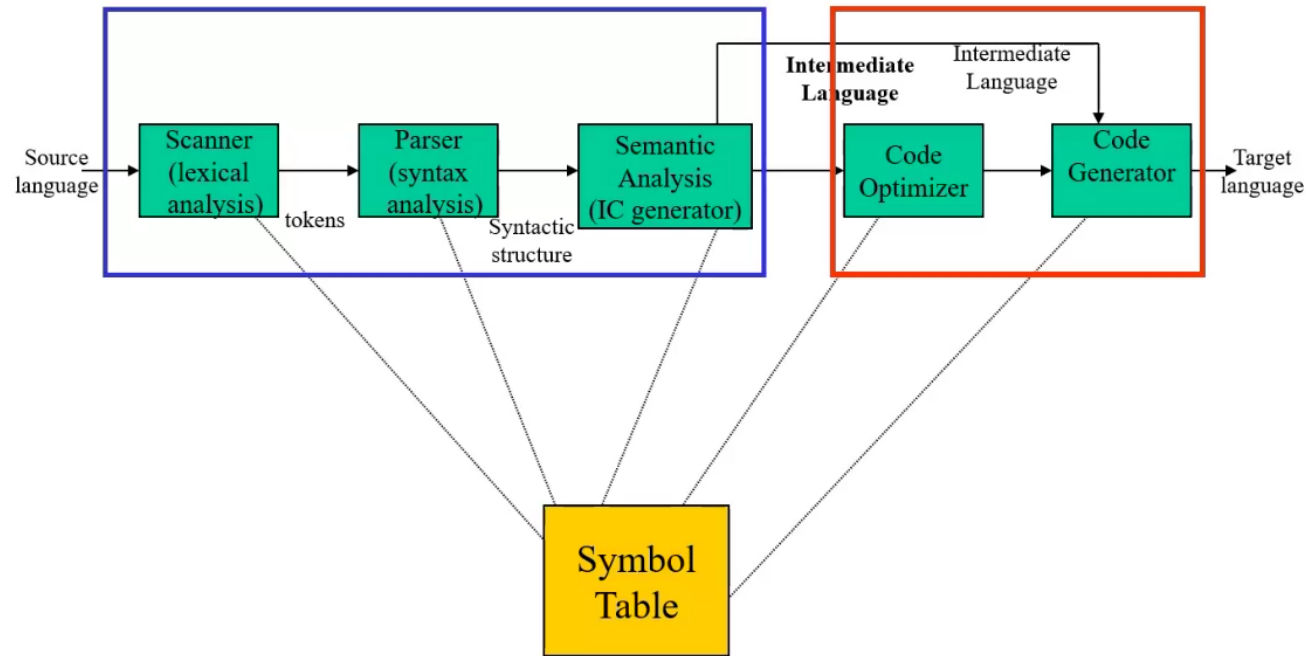
PP

Soma Ghosh

Type a new message



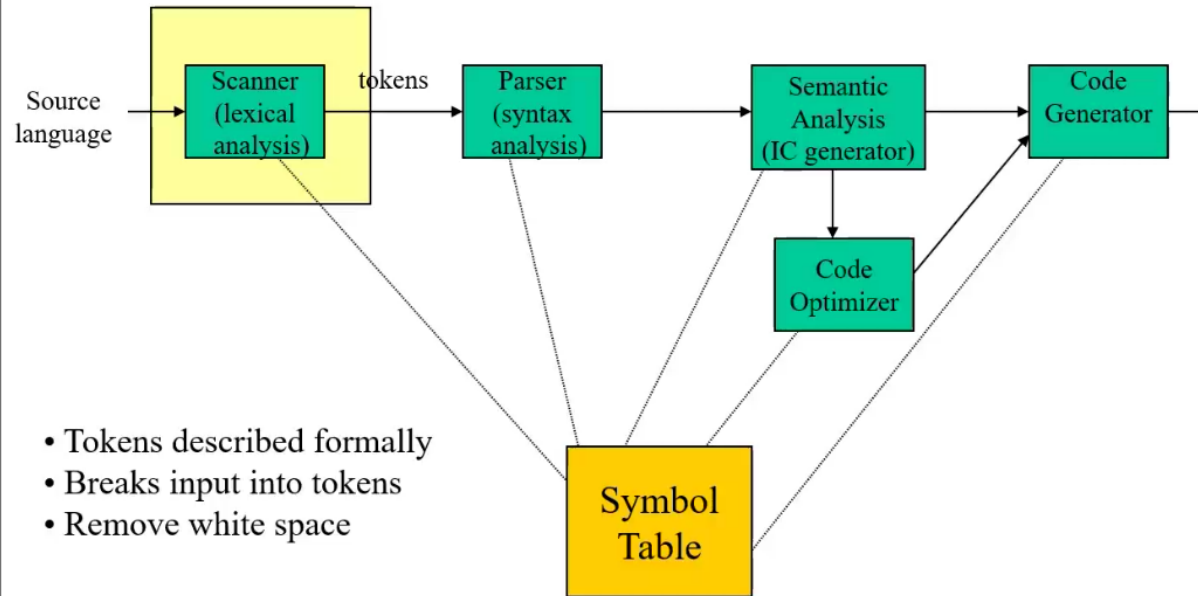
Compiler Architecture



Participants

- NAGARGOJ...
- VAIBHAV G...
- SHUBHAM ...
- Soma Ghosh
- SHITU SHAI...
- NAIK CHIN...
- Adi Shend...
- PATWARD...
- SONIYA SA...
- Participants

Lexical Analysis - Scanning



- Tokens described formally
- Breaks input into tokens
- Remove white space

Participant list:

- SG: Soma Ghosh
- NAGARGOJ...
- PS: PABALKAR ...
- SHUBHAM ...
- NS: NAIK CHIN...
- AS: Adi Shend...
- PP: PATWARD...
- SP: SHAH NISA...
- SB: SONIYA SA...
- 71: Participants



Take control



Pop out



Chat



People



Raise



React



View



Apps



More



Camera



Mic



Share



Leave

Input: $\text{result} = a + b * c / d$

- Tokens:

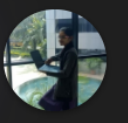
'result', '=', 'a', '+', 'b', '*', 'c', '/', 'd'

identifiers

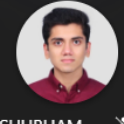
operators



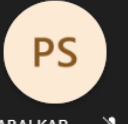
Soma Ghosh



NAGARGOJ...



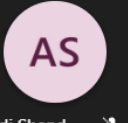
SHUBHAM ...



PABALKAR ...



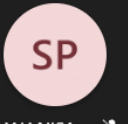
NAIK CHIN...



Adi Shend...



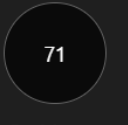
PATWARD...



SHAH NISA...



SONIYA SA...

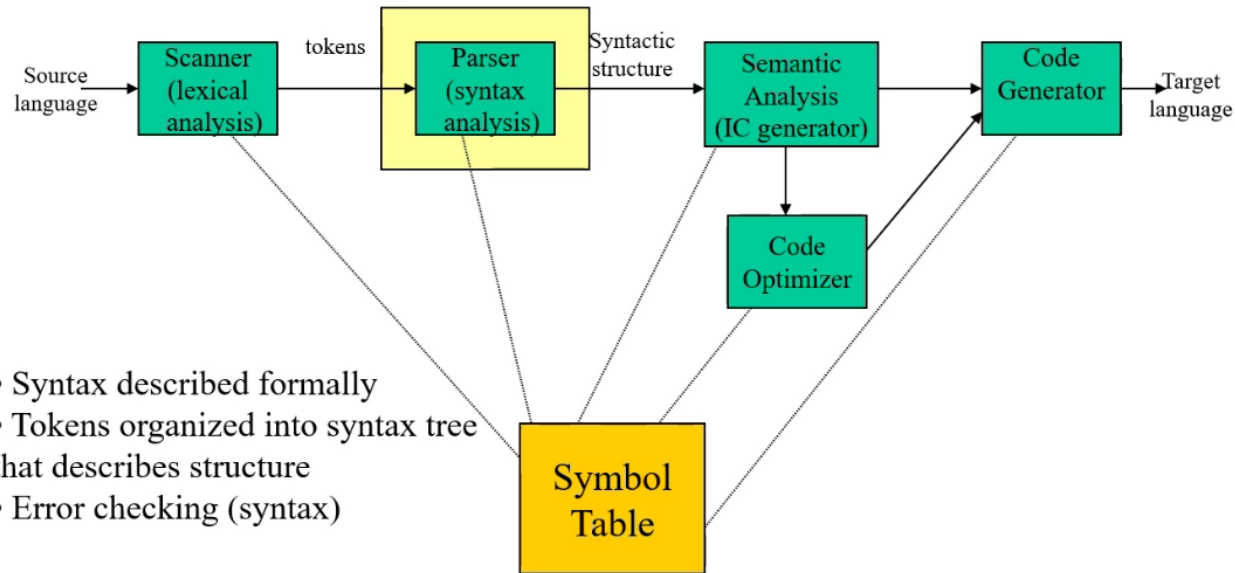


Participants



PP

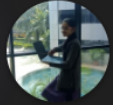
Static Analysis - Parsing



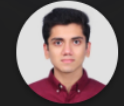
- Syntax described formally
- Tokens organized into syntax tree that describes structure
- Error checking (syntax)



Soma Ghosh



NAGARGOJ...



SHUBHAM ...



PABALKAR ...



NAIK CHIN...



Adi Shend...



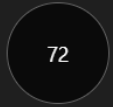
PATWARD...



SHAH NISA...



SONIYA SA...



Participants



PP



Take control



Pop out



Chat



People



Raise



React



View



Apps



More



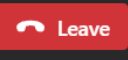
Camera



Mic



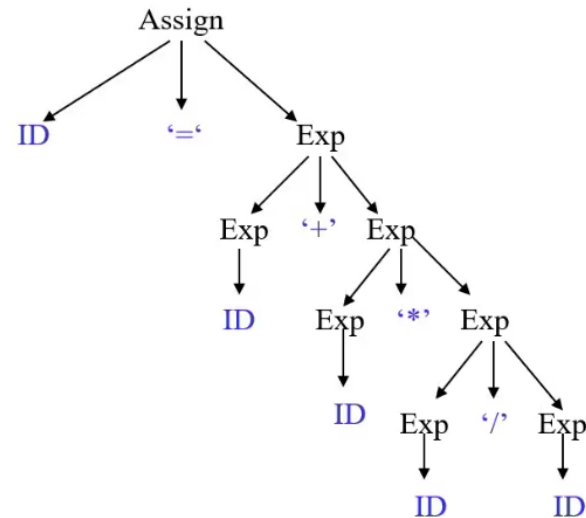
Share



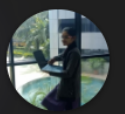
Leave

Input: result = a + b * c / d

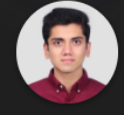
Exp ::= Exp '+' Exp
| Exp '-' Exp
| Exp '*' Exp
| Exp '/' Exp
| ID
Assign ::= ID '=' Exp



Soma Ghosh



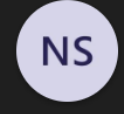
NAGARGOJ...



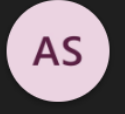
SHUBHAM ...



PABALKAR ...



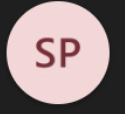
NAIK CHIN...



Adi Shend...



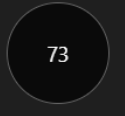
PATWARD...



SHAH NISA...



SONIYA SA...



Participants



PP



Semantic Analysis

