toterpetation - can fine tepretation with some hard-to-program machine, My

Stat with some hard-to-program machine, My

write a single program for M, that minis the behavior of some easier machine, Ma

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resulting virtual Ma - mill of interporation - layers of abstraction are used by Several layers of interpretation are used _ nscFul for one-off tasys Compilation - Compile time XBoth interpretation and complicationi Ly allow charges in Source program

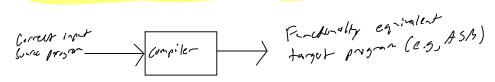
of allow charges in Source program

of allow charges in Source program

of allow charges in Comparing

with a sent in Comparing

Basic Confiler Structure



Compollation Strategies

```
compile_statement (Statement)
```

ununditinal; expris

ununditinal; expris

Statement; Statement; Statement;

unditinal: It Cexpr) statement;

unditinal: While (expr) statement;

iteration: While

- compile expressor)

Ly Constants: 1234

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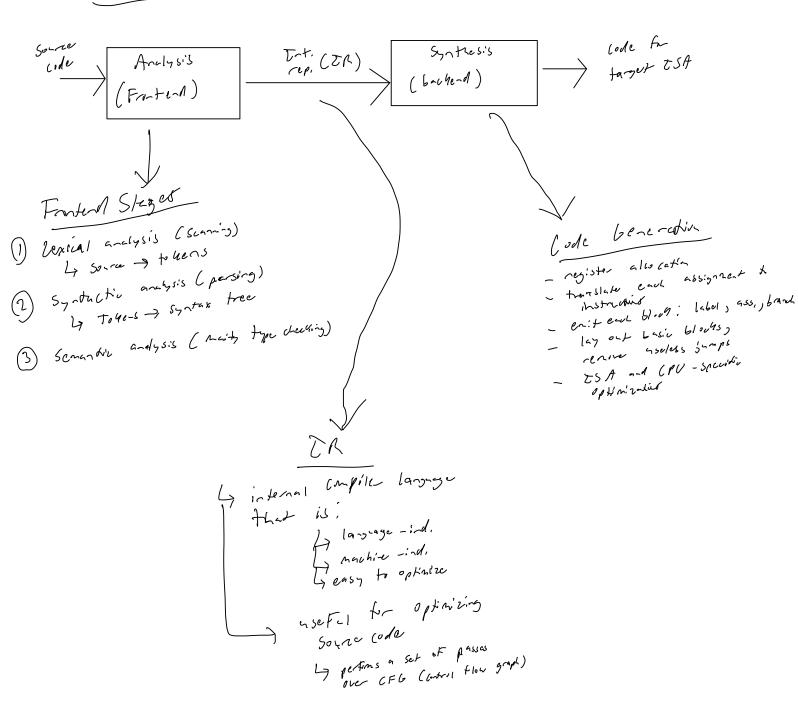
Ly Constants: a, b [exp]

Assignment: a = exp

Operations: exp , + exp z

Procedure Calls: proc (exp , ...)

Anntony of a Moder Conpiler



Summary: Modern Compilers

