61A Lecture 25

Friday, October 31

Announcements

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- Guerrilla Section 5 on Saturday 11/1

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  - Vanguard section 12–2pm in 271 Soda (max 45 people)

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  - Topics: Scheme and Functional Programming

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- Homework 7 due Wednesday 11/5 @ 11:59pm

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  - Open note, open interpreter, closed classmates, closed Internet

Exceptions

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They enable non-local continuations of control:

If f calls g and g calls h, exceptions can shift control from h to f without waiting for g to return.

(Exception handling tends to be slow.)

Raising Exceptions

Assert Statements

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(Demo)

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The <except suite> is executed, with <name> bound to the exception

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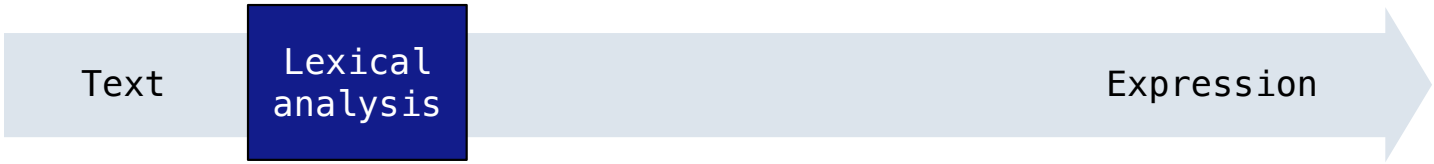

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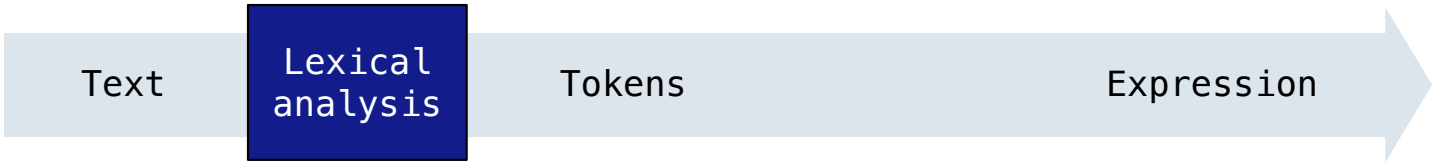

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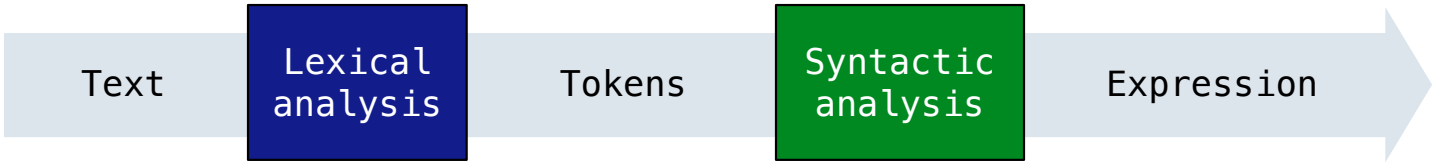


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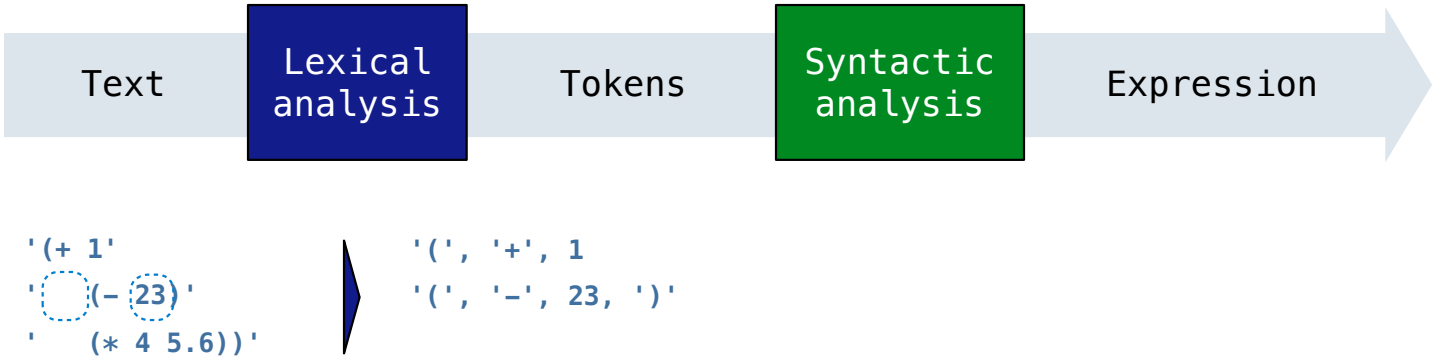

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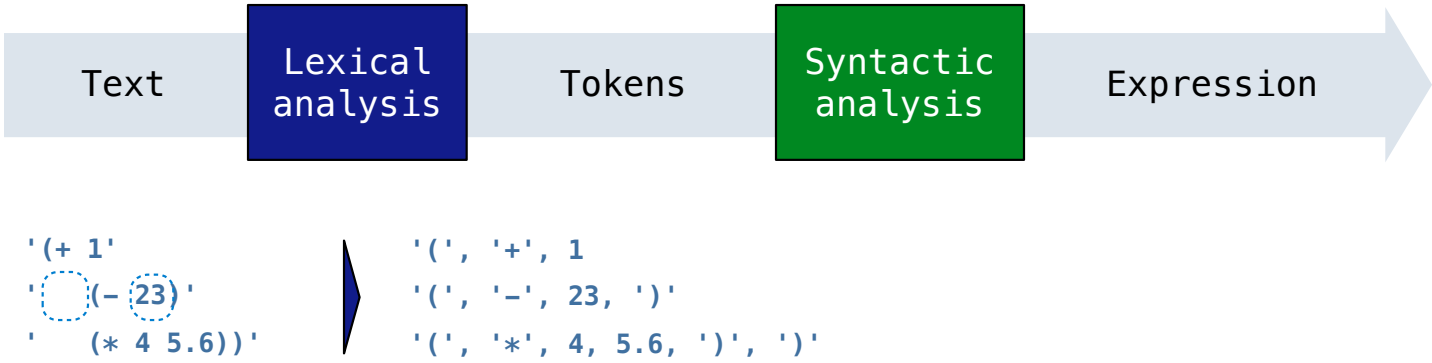

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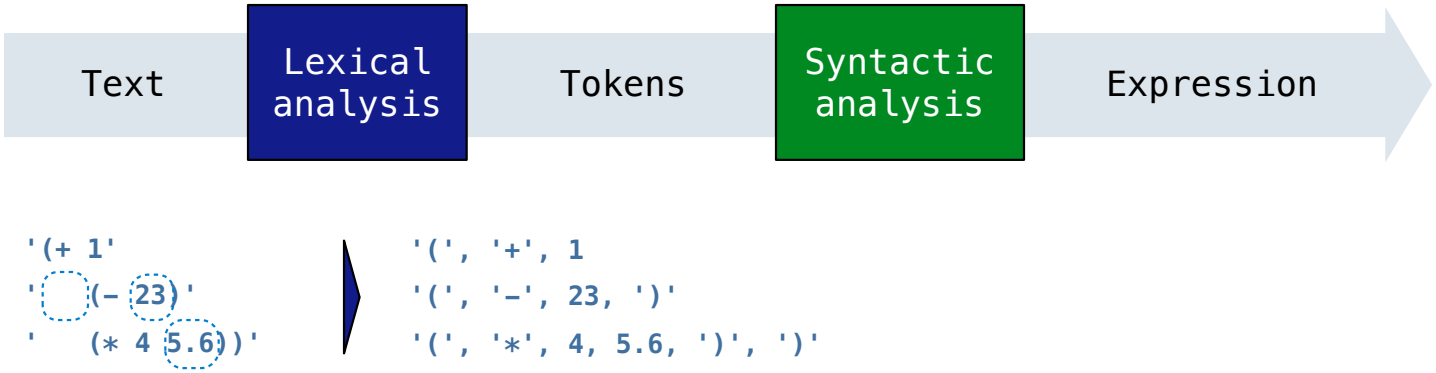

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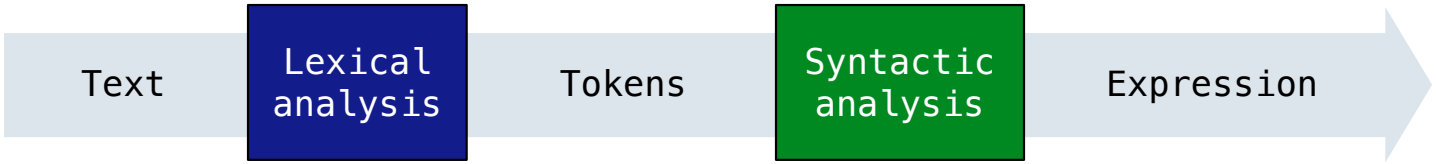


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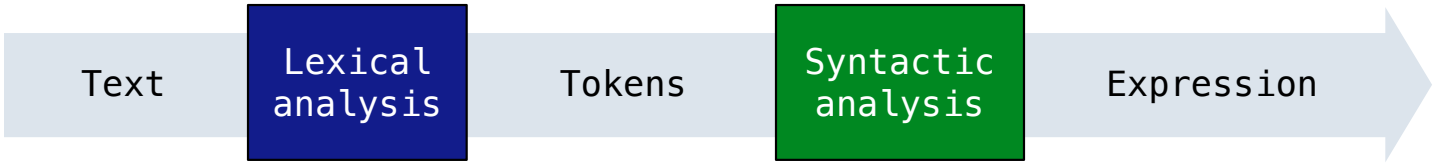


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- Iterative process
- Checks for malformed tokens

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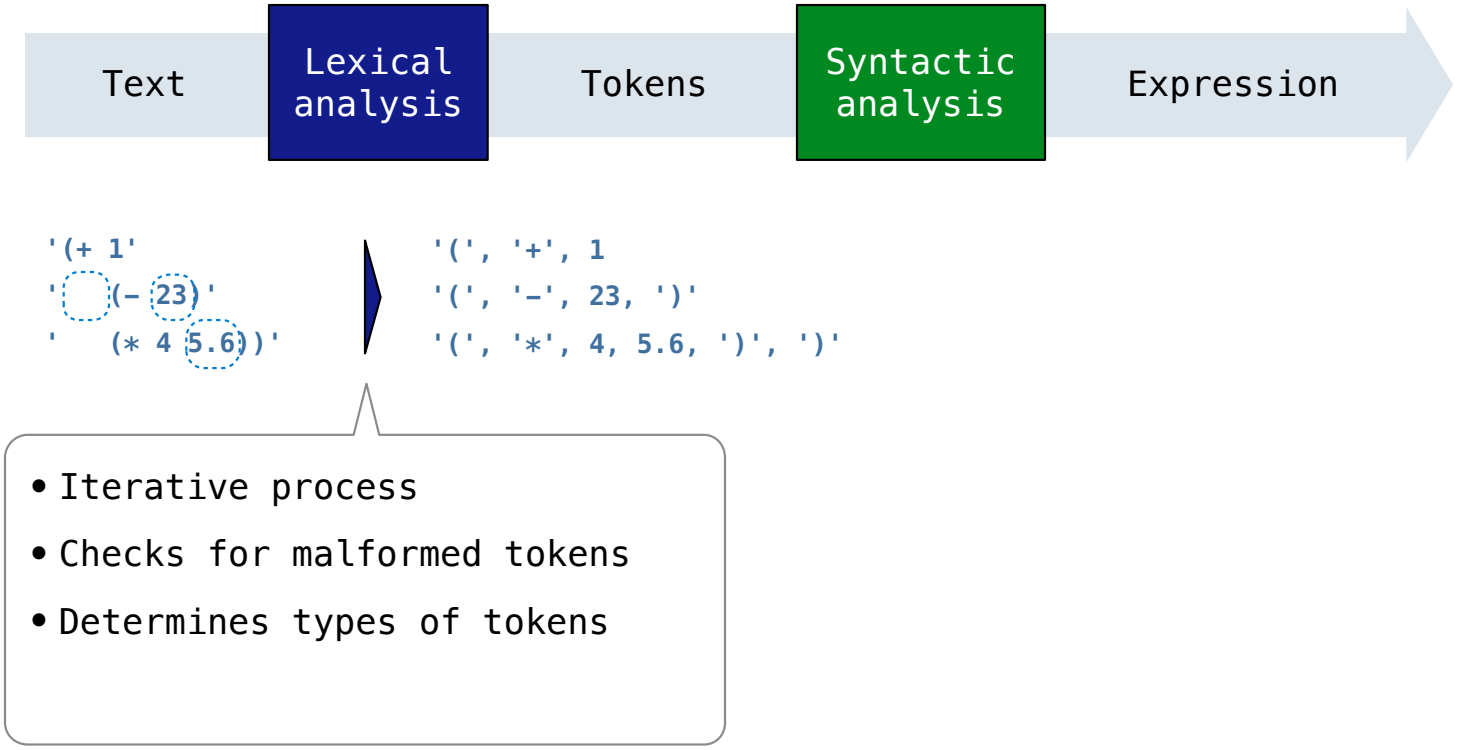

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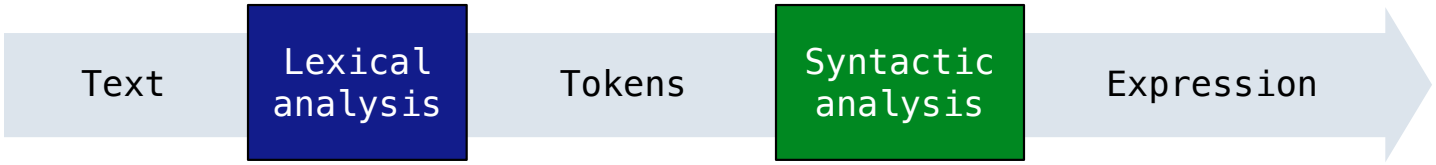


```
'(+ 1'
'  (- 23)'
'   (* 4 5.6))'
```

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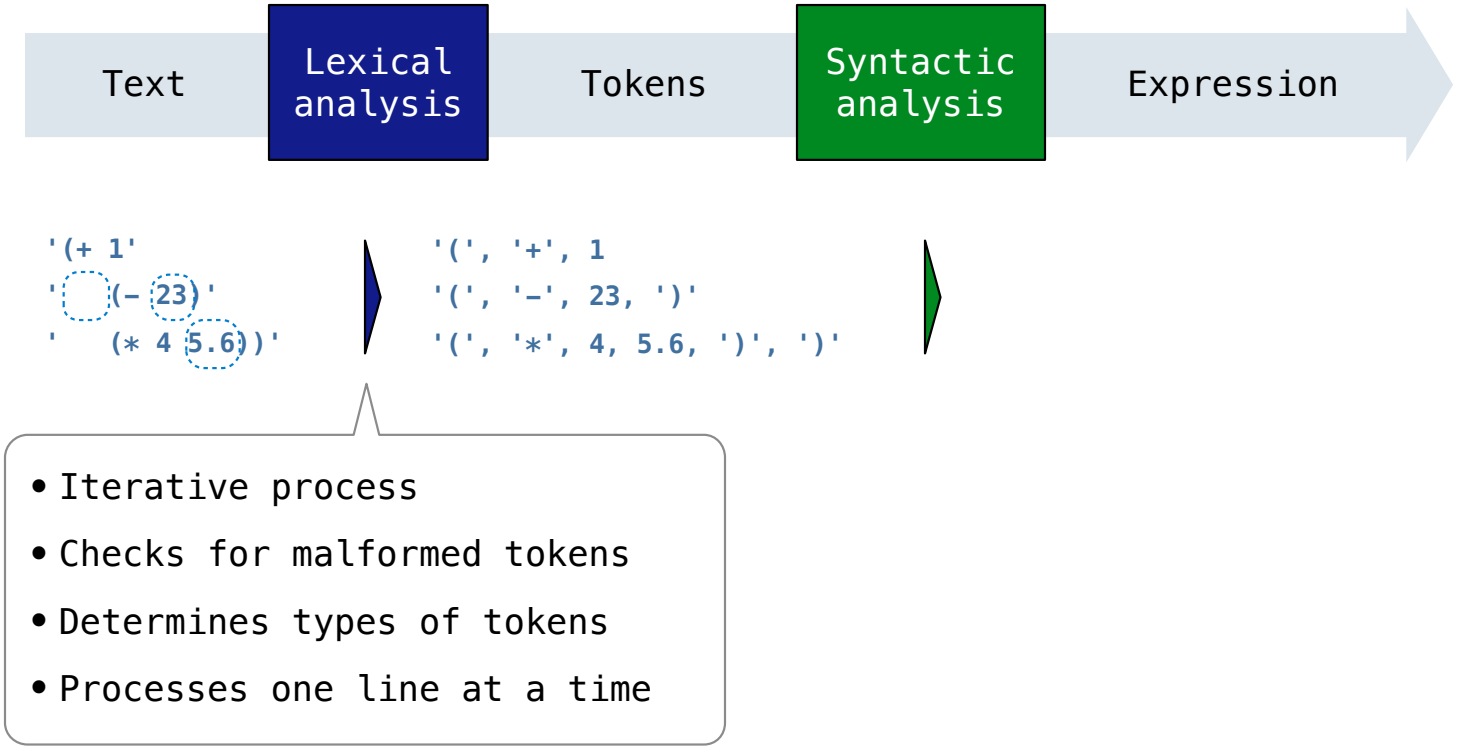

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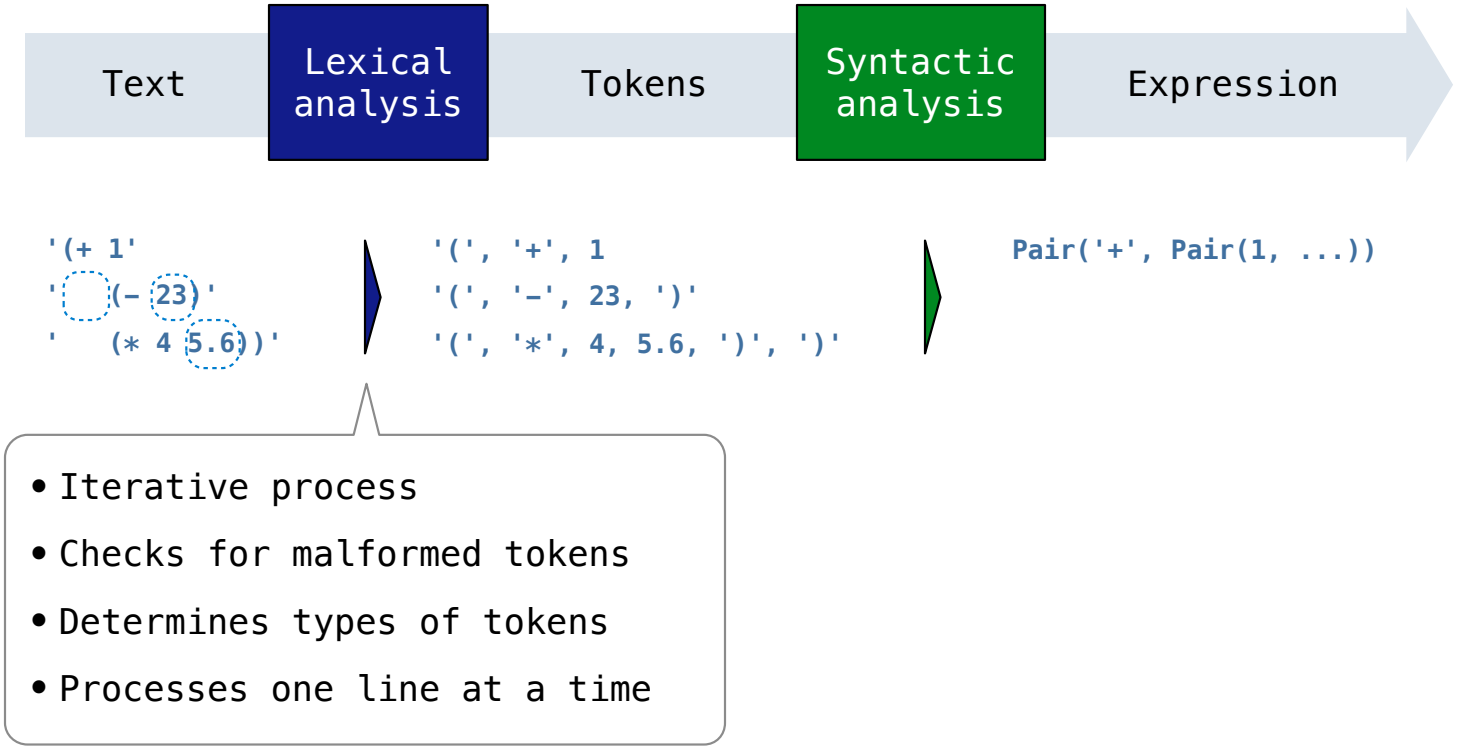

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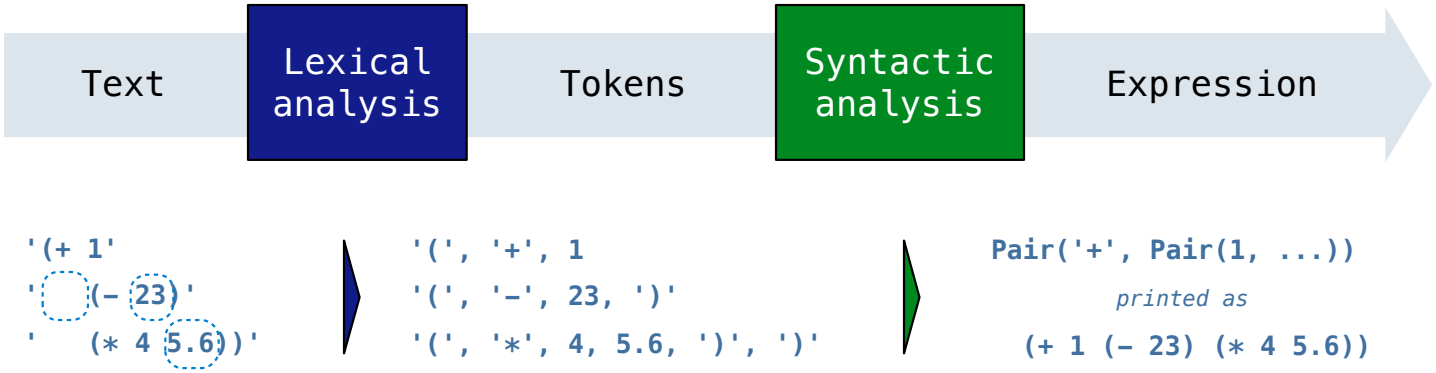

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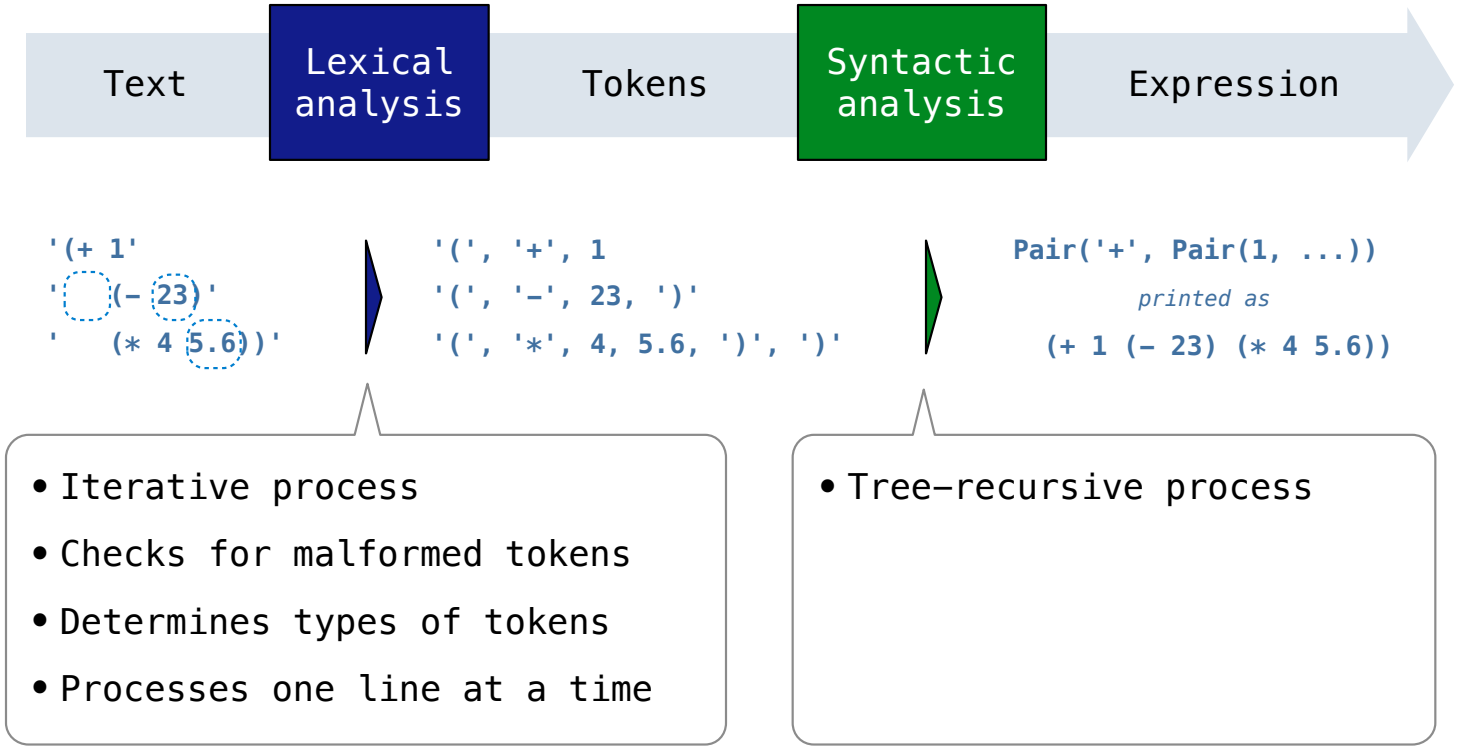

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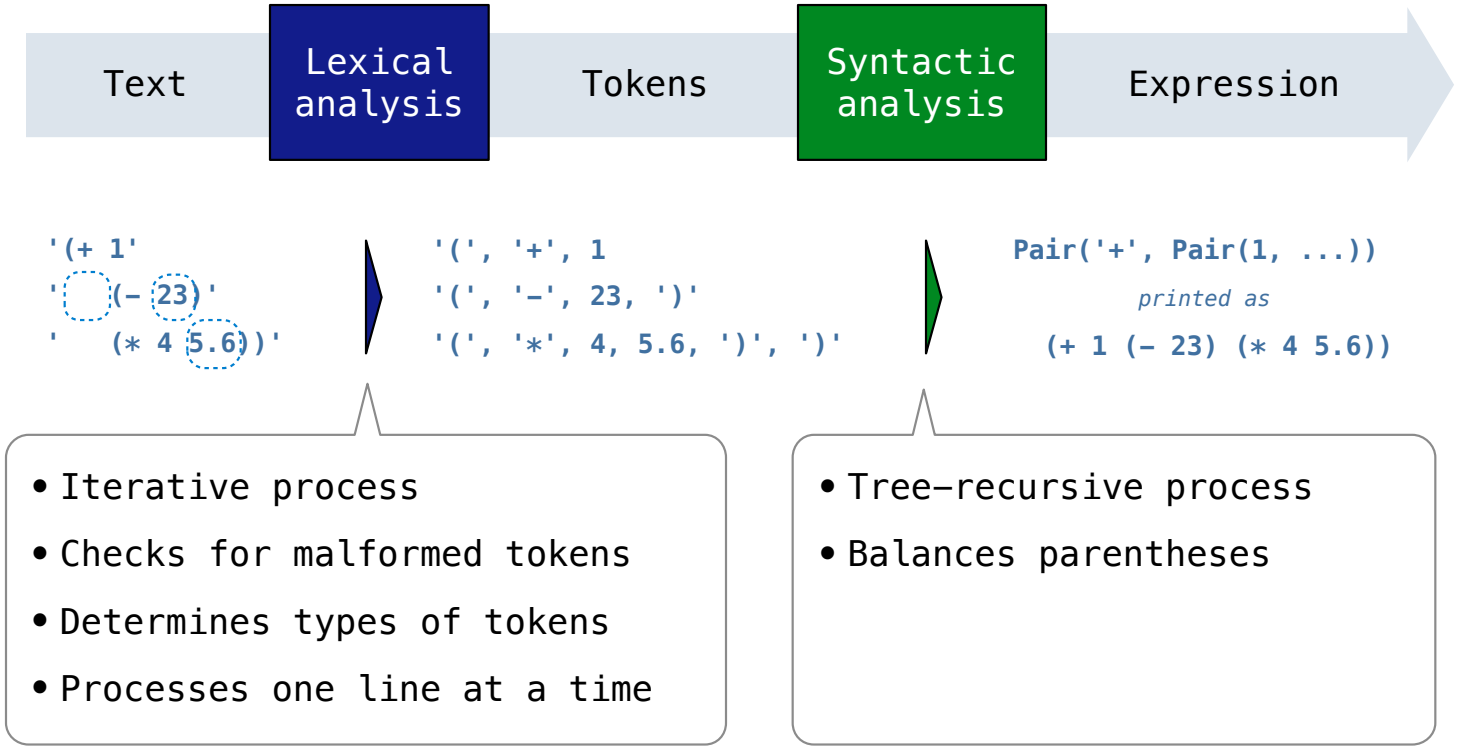

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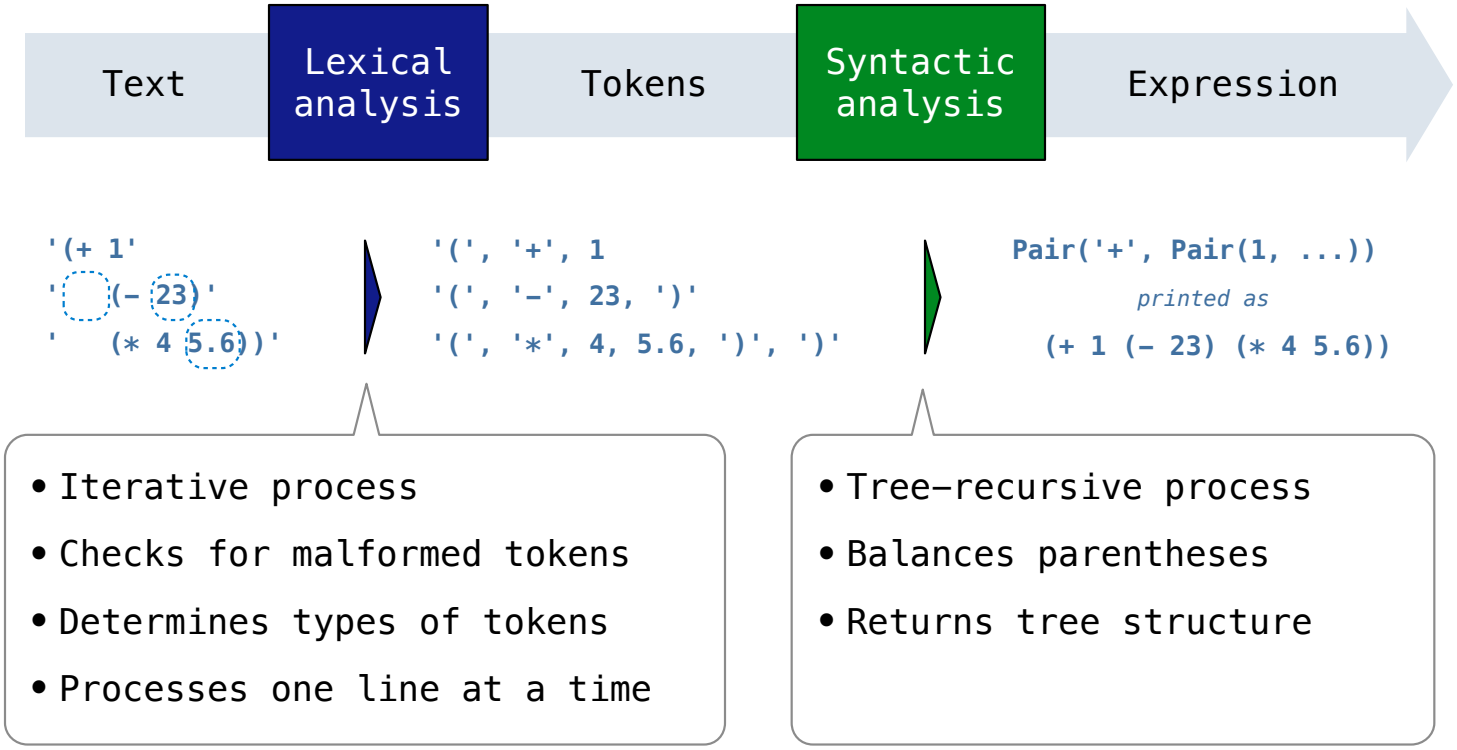

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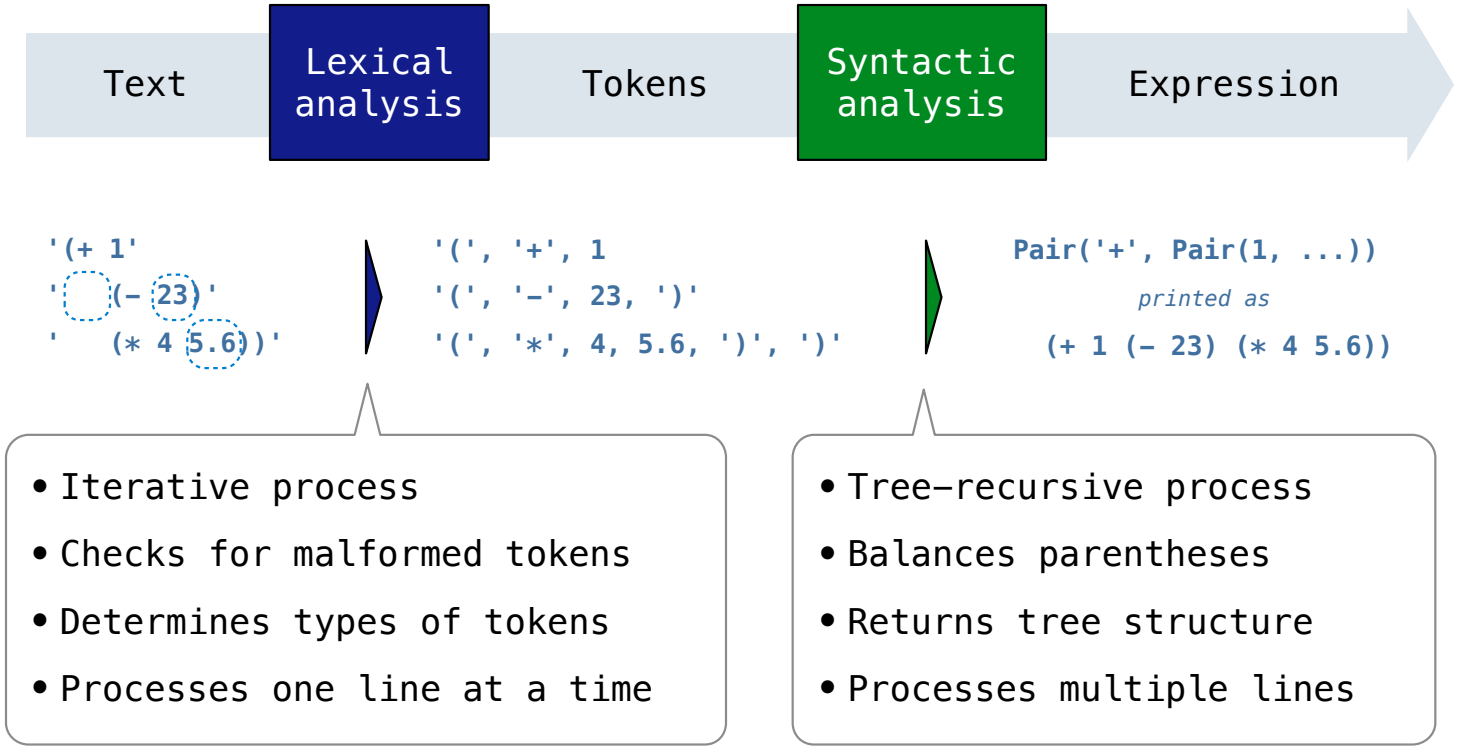

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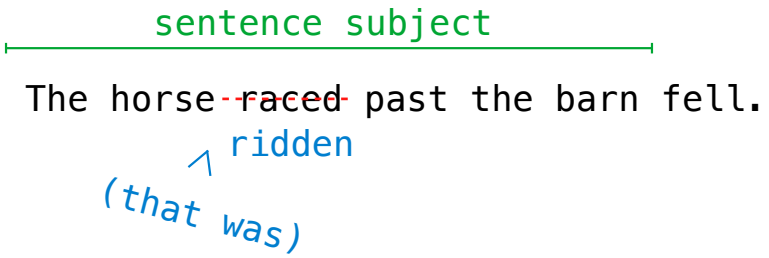

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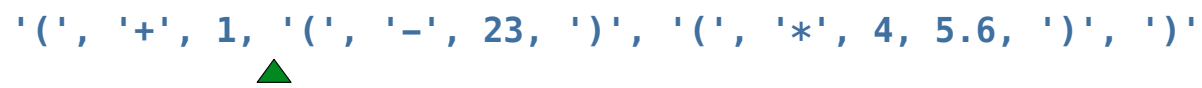

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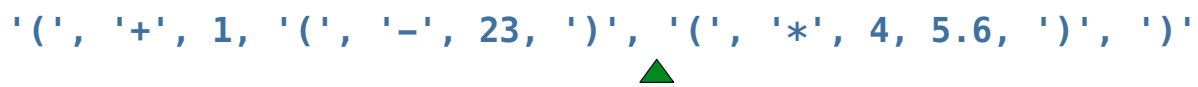

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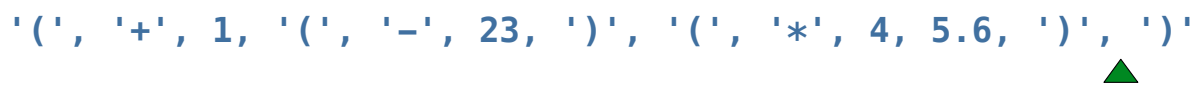

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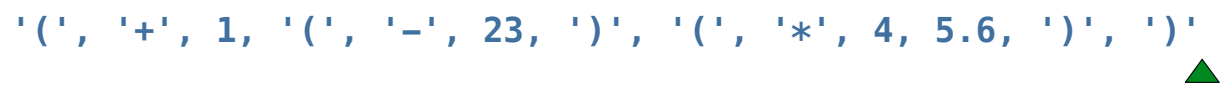

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(Demo)