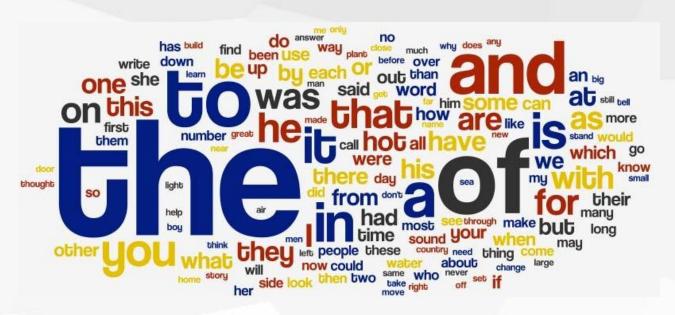
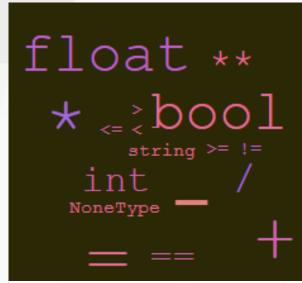
## **Aspects of Language**

- Primitive constructs
  - English: words
  - programming language: numbers, strings, simple operators



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## **Aspects of Language**

## Syntax

English:
"cat dog boy"

"cat hugs boy"

not syntactically valid syntactically valid (noun + verb)

Programming language:

"hi"5"

3.2\*5

not syntactically valid

syntactically valid

## **Aspects of Language**

• Semantics is the meaning associated with a syntactically correct string of symbols with no static semantic errors

English: "I are hungry""

syntactically valid
but static semantic error, why?

programming language: 3.2\*5 syntactically valid, no static semantic error

3+"hi" static semantic error