

## Arithmetic Expressions

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## The Common Arithmetic Operators

Operator	Meaning
+	addition
-	subtraction
*	multiplication
/	division
%	modulus (remainder)

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## Binary vs. Unary Operators

- +, -, \*, /, % are *binary* operators
  - Two operands
- + (unary) and - (unary) are *unary* operators
  - One operand

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## Precedence and Associativity

- The unary operators have highest precedence
- Next comes the multiplicative operators (\*, /, %)
- Finally, the additive operators (+, -)
- This is the same precedence rules as normal arithmetic
- Evaluation is performed for these operators left to right

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## + is Overloaded

- An operator that has different meanings in different contexts is said to be *overloaded*
- + with numbers means *addition*
- + with strings means *concatenation*
  - Splicing one string with another
  - Strings can be concatenated with nonstrings

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## Arithmetic Abbreviations

- `x = x + 1;`
  - `x += 1;`
  - `x++;` or `++x;`
- Similar for -, \*, /, %

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Next . . .

Computing with Objects

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