# C++

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# Topics to be discussed

- Operators
  - Assignment
  - Arithmetic
  - Increment and Decrement
  - Equality
  - Relational
  - Logical
  - Compound Assignment
  - Precedence

# Assignment

- lhs =  rhs

- Rhs must be type compatible with the lhs

- Lhs must be assignable

- More than one variable can be assigned in a single statement

# Arithmatic

- Addition
- Subtraction
- Multiplication
- Division
- Mudulo or remainder :: only works with integers in c or c++

# Increment & Decrement

- prefix
- postfix

# Equality

- == and != operators
- Compares the values of expressions
- Result is boolean
- Generally used in flow statements

# Relational

- \>

- \>=

- <

- <=

- <=> (three-way comparison (C++20))

# Logical Operators

- Not(!) : unary operator
- And (&&) : binary operators
- Or (||) : binary operators
- Short-circuit evaluation
  - Expr1 && expr2 && expr3
  - Expr1 || expr2 || expr3

# Compound Assignment

- +=, -= , *=, /=
- %=
- >>=, <<=, &=, ^=
- !=

# precedence

- https://en.cppreference.com/w/cpp/language/operator_precedence

Q&A

# End of the session

Thank You