Operators in

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Operator?

Operator!

Language constructs which behave generally like functions, but differ syntactically or semantically from usual functions

Wikipedia

...in Swift?

An operator is a special symbol or phrase that you use to check, change, or combine values.

- The Swift Programing Language

...in Swift!

- Assignment, logic, math, binary, overflow, range;
- Unary, binary, ternary;
- Prefix, infix, postfix;
- Precedence
- Associativity

Overloading & custom operators

- Define operator
 - Associativity, assignment, precedence
- Implement function
 - Arguments define applicability
 - Overrides operators within the module
 - inout for assignment

Guidelines

- Clarity
- Simplicity
- Analogy
- Order of execution

Demo

Shortcoming

- Why bother? What's wrong with functions?
- No unicode in operator names. Where is my image.
- No way to create ternary operators
- No scopes: Cartography auto layout done with custom operators

Conclusion

To get around clashes when operator overloading, we should all just give them a three letter prefix

- @danielctull