

Basics

Rev is an interpreted language for statistical computing and phylogenetic analysis.

Operators and Functions

```
# Simple mathematical operators:
1 + 1 # Addition
10 - 5 # Subtraction
5 * 5 # Multiplication
10 / 2 # Division
2^3 # Exponentiation
5%2 # Modulo
# Math functions
exp(1) # exponential function
ln(1) # logarithmic function
sqrt(16) # square root function
power(2,2) # power function
```

Variable Declaration and Assignment

| Variable | Operator | Example |
|---------------|---------------------------|---------------------------|
| Constant | <- | a <- 1 |
| Stochastic | ~ | x ~ dnExponential(lambda) |
| Deterministic | := | b := exp(a) |
| Clamped | node.clamp-lambda-p(data) | a.clamp(b) |
| Inference | = | |
| Plate | for loops | |

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