

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(lam-p(data)) | a.clamp(b) |
| Inference | = | |
| Plate | for loops | |



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