# Nodes (Two-dimensional objects … if 1 x1 or r X 1, the complexity should be hidden and scalar quantities assumed .. treat everything as if random matrix… this will help with LKJ priors eventually)

## LHS or Top-Level Info

### Label (root label – indices or children might be given)

### Description

### Data

Dimension

### How to auto-label for fast DAG construction

## RHS

### Distribution

#### Peripheries automatically equal to 1

#### Get arguments from package code that mimics greta arguments

##### If parameters different, have DB that helps sort this out

### Formula/Operation

## Dimension of Node – each node is one of these types

### Scalar (1 x1)

### Vector (row x 1)

### Matrix (row x column)

#### If we assume every node is a matrix of default 1 x 1 dimension plus that every observed distribution node is repeated by its row index

Need to think about what edges mean relative to child/parent

## Vectorization of dag\_node … allow multiple nodes with vectorized label, description, data

## State: Observed or Not

### State implied by presence of data

### OR state made explicit by argument flag

## Make a list internal structure that can be converted to DiagrammeR on request … it will be the dag\_node representation