



## **Introduction**

## **NetLogo Extension**

The philosophy is to provide the basic tools to do the job, or provide the primitives to allow the programmer to re-implement the code.

### **Extension primitives**

**cbr:new**

Arse on a bucket pale.

**Inputs**

**Outputs**

**Purpose**

**Example**

**cbr:add**

**Inputs**

**Outputs**

**Purpose**

**Example**

**cbr:combine**

**Inputs**

**Outputs**

**Purpose**

**Example**

**cbr:all**

**Inputs**

**Outputs**

**Purpose**

**Example**

**cbr:remove**

**Inputs**

**Outputs**

**Purpose**

**Example**

**cbr:state**

**Inputs**

**Outputs**

**Purpose**

**Example**

**cbr:decision**

**Inputs**

**Outputs**

**Purpose**

**Example**

**cbr:equal**

**Inputs**

**Outputs**

**Purpose**

**Example**

**cbr:outcome**

**Inputs**

**Outputs**

**Purpose**

**Example**

**cbr:forget**

**Inputs**

**Outputs**

**Purpose**

**Example**

**cbr:get-earliest**

**Inputs**

**Outputs**

**Purpose**

**Example**

**cbr:set-earliest**

**Inputs**

**Outputs**

**Purpose**

**Example**

**cbr:get-max-size**

**Inputs**

**Outputs**

**Purpose**

**Example**

### **cbr:set-max-size**

#### **Inputs**

#### **Outputs**

#### **Purpose**

#### **Example**

### **cbr:get-rank**

#### **Inputs**

#### **Outputs**

This reports an integer as a NetLogo number indicating the rank of the case within the case-base. This is by default zero unless otherwise set by `cbr:set-rank`. This is used to determine case precedence if there is a draw when trying to match a case-base.

#### **Purpose**

#### **Example**

### **cbr:set-rank**

#### **Inputs**

- A case base of the type `cbr:new`
- An integer rank of 0 or above.

#### **Purpose**

This is a command and has no return. It sets the rank of a particular case in a case-base. If, when matching cases, two cases are identical, then it is the case with the highest rank that will be selected. If two or more cases are matched and have the same rank, then if the match is made using `cbr:match`, then a random selection from the matching cases is returned. If `cbr:matches` is used, then all the matches with the same rank are returned.

The default rank is always 0, and the value may be interrogated using `cbr:get-rank`.

### **Example**

`cbr:get-time`

**Inputs**

**Outputs**

**Purpose**

### **Example**

`cbr:set-time`

**Inputs**

**Outputs**

**Purpose**

### **Example**

`cbr:resize`

**Inputs**

**Outputs**

**Purpose**

### **Example**

**cbr:lambda**

**Inputs**

**Outputs**

**Purpose**

**Example**

**cbr:match**

**Inputs**

**Outputs**

**Purpose**

**Example**

**cbr:matches**

**Inputs**

**Outputs**

**Purpose**

**Example**

**cbr:yes**

**Inputs**

**Outputs**

**Purpose**

**Example**

**cbr:no**

**Inputs**

**Outputs**

**Purpose**

**Example**

**cbr:invalid**

**Inputs**

**Outputs**

**Purpose**

**Example**

**Illustrations**

**Discussion and Conclusions**