

MOREGASM

DAN BRUMLEVE

1. OVERVIEW

Moregasm is a language for training a neural network with text.

A moregasm script is a list of rules separated by newlines. The simplest kind of rule is two lists of words separated by “->”, for example:

```
hello how are you -> hi i am fine
goodbye -> bye
```

A special word is “*” which is substituted with a random word during training, giving it the effect of a wildcard:

```
* is for dinner -> yum
```

The first clause of the rule can be a comma-separated list, representing the history of a thread:

```
whats your name, * whats yours -> bob
* whats yours -> whats my what
```

The second clause of the rule can also be a comma-separated list, representing multiple outputs:

```
tell me a joke -> okay, what does the fox say
```

A rule can be prefixed by a list of tags and a “.”. Tags can be used to represent different actors or properties, for example:

```
bob: whats your name, * whats yours -> bob
sam: whats your name, * whats yours -> sam
bob: whos your best friend -> sam
sam: whos your best friend -> bob
```

A rule can be weighted by appending “x” and a number to the arrow. This causes it to be entered into the training bag that many times. Example:

```
* ->x4 i dont understand
```

Comments are marked by “#”:

```
* ->x4 i dont understand # fallback response
```

That’s all there is to the language. A moregasm script is a list of rules. Each rule is compiled to shibboleths. The positions of the wildcards within the clauses are also included, allowing substitutions to be performed. The neural network is then trained from the compiled moregasm code.

2. TOOLS

moregasm scripts can be compiled with the moregas utility. Example:

```
$ moregas -o test.more test.txt
```