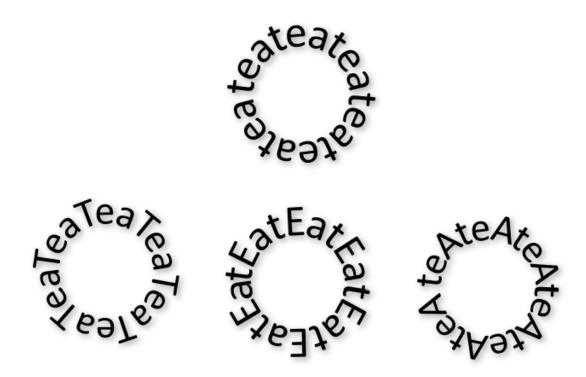
A Gronynym is a type of word of my invention, similar to a palindrome. It comes from the idea that some words, if you write them over and over again, are impossible to find the start of. Here is an example:

# teateateateateateateatea



Tea is a Gronynym (along with eat and ate) because when you write the word out many times, it is hard to know which letter to start with because each letter is the start of a word.

## Here is a **formal definition of a gronynym**:

A gronynym is a sequence of letters such that all letters in a repetition of the sequence are the start of a word in that repetition.

By repetition, I mean writing the sequence over and over again in an infinite way. The diagrams above are meant to represent infinity. The reason why infinity is required is because if

the sequence had a start or an end, the illusion would be broken and you could figure out what the word actually was.

#### Some more definitions:

Real vs. Unreal - A gronynynm is real if it is a valid word

Perfect vs. Imperfect - A gronynym is perfect if every letter in the sequence makes a word with length equal to the length of the gronynym

Complete vs. Incomplete - A gronynym is complete if *every* letter in the sequence makes a word, if only some of the letters make a word, it is incomplete

Tea is a complete perfect real gronynym

### **Gronynym Examples**

I have used a python program to find all real gronynyms. The complete lists are in gronynyms.txt and perfect\_gronynyms.txt. Here are some examples from the **123** perfect gronynyms and **11589** total gronynyms:

#### Perfect:

```
a ['a']

ary ['ary', 'rya', 'yar']

ich ['ich', 'chi', 'hic']

zzz ['zzz', 'zzz', 'zzz']

sese ['sese', 'eses', 'sese', 'eses']

lana ['lana', 'anal', 'nala', 'alan']
```

### Imperfect:

```
state ['states', 'tates', 'ates', 'testates', 'estates']
gestate ['gestate', 'estate', 'state', 'tate', 'ate', 'teg', 'egesta']
whilere ['whilere', 'hi', 'i', 'lere', 'erewhile', 'rew', 'ew']
```

imaginer ['imaginer', 'magi', 'agin', 'gin', 'in', 'ne', 'er', 'rima']

laminous ['laminous', 'amino', 'mino', 'in', 'nous', 'ous', 'us', 'slam']

kinesitherapies ['kinesitherapies', 'in', 'ne', 'es', 'sithe', 'ither', 'therapies', 'her', 'era', 'rap', 'a', 'pies', 'i', 'es', 'skin']

tribromomethane ['tribromomethane', 'rib', 'i', 'bromo', 'rom', 'om', 'mome', 'om', 'methane', 'ethane', 'thane', 'han', 'ane', 'net', 'et']

trichomonacides ['trichomonacides', 'rich', 'ich', 'ch', 'homo', 'om', 'monacid', 'on', 'na', 'acidest', 'cides', 'ides', 'de', 'estrich', 'strich']