

CMPSC 100

Computational Expression



What happens if we delete it?

What happens if we delete a git folder?

- Locate your previous “class-activities” repository folder.
 - If you can’t find it, it’s alright to follow along with the next steps.
- Delete this folder.
 - This doesn’t do anything except delete your *local* copy.
 - The repository lives on at GitHub, and can be “cloned” again.
- We’ll re-“clone” it later

The “World Clock”

- “Computational” novel written in 2013.
- Written in the Python language
- The author (Nick Montfort) claims that they “wrote” the novel in 4 hours, on 27 November, 2013.
- This novel was his entry in a November-based event called “NaNoGenMo,” which runs alongside “NaNoWriMo.”
 - During “NaNoGenMo,” authors write novel-length works from computer programs using various methods and subjects.
 - One novel, for example, translates famous books into over 50,000 “meows.”

"Meow mew," meeeooow mew meooooow; "mew me me meow, mew meow, mew meow
meow me meow."

Meow meeeow meow.

"M'me mew meow mew," meooooooooow mew meow mew. "Me me'm m meow meow, me
mew meow meow me mew mew me mew; mew

'Mew meeeow meow M meow mew meow,
Meeeoow, mew meow me Meeow.'"

Meow meeeooooooooow Meow meooooooooow; mew me mew meeeow; mew meow meow mew
mew mew me mew meeeow meeeow meow, meow meeeow mew mew meow me mew
meow meow mew meow me meeeow.

"Meow meow mew mew meow meow mew?" meeeeoow mew meooooow.

"Mew me' Meeow," meeeoow Meow, me m meooooooooow meow; "me meow m Meow
mew'me meooooow?"

"Me, me'm meeeow," meow mew meeeow, "meow mew meow meeeow mew mew meeeow
me mew me-meeow; mew meow mew'm me mew meow me meow meow me meow-meow."

No, this was not Prof. Luman; it was Finnish developer Hugo van Kemenade (@hugovk)

The World Clock

- Modeled on Stanislaw Lem's book *One Human Minute*..

[A] review of a book of statistical tables, a compilation that includes everything that happens to human life on the planet within any given 60 second period.

LYNN HARNETT, *PORTSMOUTH HERALD*

One Human Minute lies in its being...

synchronous with the human world, like a computer of the type that we say works in real time, a device tracking phenomena as they occur.

STANISLAW LEM, *ONE HUMAN MINUTE*

It is now as it happens 09:51 in Mendoza. In some decrepit structure someone named Xian, who usually turns to look up to other people, reads the warning message on a small packet. She frowns a slight frown.

Rules

- There is a formulaic computational structure. What is it?
 - Consider all of the grammatical pieces.
- What pieces absolutely require computation to reproduce?

It is now almost 08:52 in Moncton. In some typical yet charming residence an old man named Wei, who is significantly smaller than others of the same age, reads the ingredient list off the label of a tin can. He nods, very deliberately.

Let's write our own entry

- Open a terminal window
- Clone the link provided in the #activities channel.
 - This will recreate the "class-activities" repository
- "cd" to this repository's main folder
- Return to the #activities channel and copy/paste the "git remote add download" command in full into your own terminal and press the Enter key.
- This will allow you to type "git pull download master" whenever I tell you there's a content update.

Let's write our own entry

- `"cd"` to the `"11-September"` folder.
- Read through the `"Entry.java"` code
- We see another way to print text to a console screen.
 - What is this new way?
 - What kind of `"call"` does Java refer to this as?
 - What is the expected output?
 - Here, think about the difference between `"println"` and `"print"`
 - Where does this `"method"` come from? (Last class I referred to Java giving us something for `"free."`)

Let's write our own entry

- Today, we're also adding another piece of vocabulary: a **VARIABLE**
 - We'll read more about this in the next chapter.
- What is the variable's name?
- What do you expect it to contain?
 - Its contents are referred to as a "String" in Java: simply a grouping of characters and spaces.
- We can often add content from strings "inline" with other text of the same type.

Let's write our own entry

- Adding String variables to strings is called **CONCATENATION**
- Two examples of concatenating a variable in a "print" statement:

```
System.out.print("It is now " + time);
```

```
System.out.print("My name is " + name);
```

Let's write our own entry

- Fill in the requested information in the "Entry.java" file to create an entry like those in *The World Clock*.
- When you're finished:
 - `javac Clock.java -d .`
 - `javac Entry.java -d .`
 - Run your entry: `java WorldClock.Entry`

(The reason we run it this way is because I created these files as part of a single **PACKAGE**, another way of grouping and organizing files.)

(It's called "WorldClock": see "package WorldClock" lines)