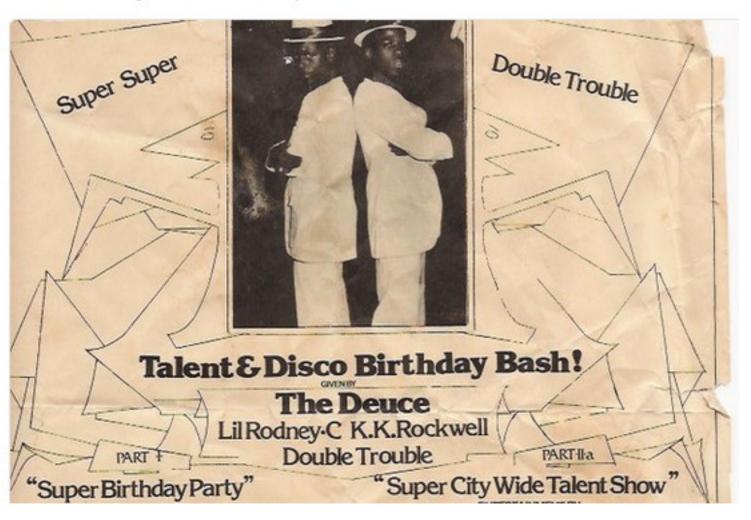
SELECT * FROM culture ORDER BY random() LIMIT 1;

18

Old School Flyers @oldschoolflyers : Mar 14



A talk by Leonard Richardson (@leonardr) http://www.crummy.com/

I love collection selection bots!





[Studio portrait of a dog.] digitalcollections.nypl.org/items/510d47e0 ...



Studio portrait of a dog.

They have artistic, aesthetic and educational value







Apollo 7 Hasselblad image from film magazine 3/M - Earth Orbit



flickr.com/photos/project ...



The audience stays engaged

MoMA MoMA Bot @MoMARobot · 15h

Stairway with Figure, 1930 moma.org
/collection/wor...



(versus generative bots)

All you need is a collection in a database

SELECT * from culture ORDER BY random() LIMIT 1;

What if the collection is not in a database?



Roller Derby Names @DeathBot3000 · Mar 15 Anita Donut (#0)











Roller Derby Names @DeathBot3000 · Mar 15 Rita Haymaker #95 for the River City Rollergirls











Roller Derby Names @DeathBot3000 · Mar 14 Annie Ouchley #1885 for the Marietta Derby Darlins







...



Roller Derby Names @DeathBot3000 · Mar 14 Outta Daway

4071 Ffor the Crown City Dellar-

What if you start with a bunch of books?

Fragmentation Damage vs. Large Targets: Large objects may be hit with multiple fragments. An object will be attacked once for each +1 Size Modifier (see p. B201) over 0. Thus, for an object with a Size Modifier of +4 (a linear measurement of 10 yards), four fragment attacks are made against it - roll individually for each attack.



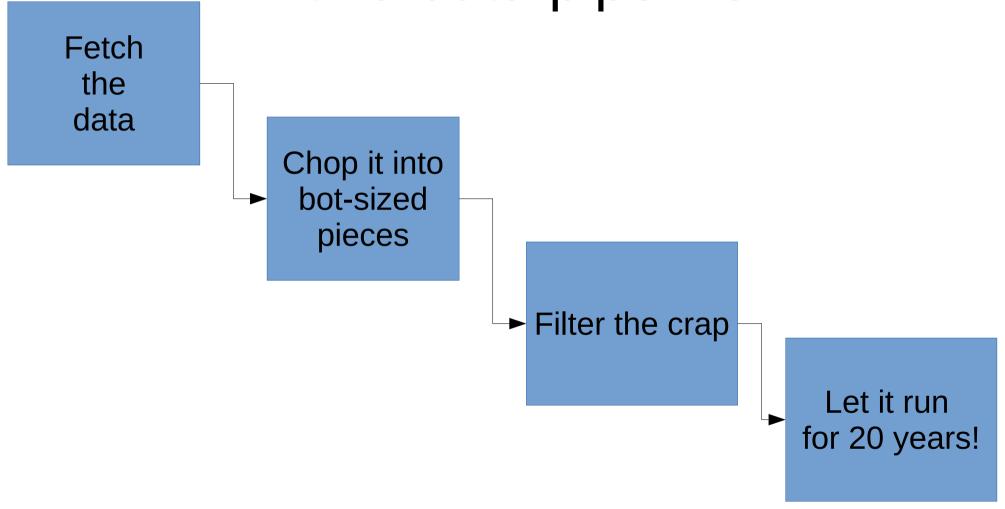
Your breathing becomes labored as the air seems to thin. You find yourself becoming exhausted more easily as you negotiate your way endlessly upward. Each step is an effort to avoid twisting an ankle or losing your foothold, and falling.

Source: TSR 2416 - DSE1 - Dragon's Crown (Dark Sun)

What if most of the collection is boring?



Make it bot-ready with a data pipeline!



The lingua franca: NDJSON

```
["Graveyard Gertie", "13", "2011-03-19", "Circle
City Derby Girls"]
["Ms Pummel Her", "007", "2010-06-07", "Cherry
City Derby Girls"]
["Dolly Trauma", "", "", "No Coast Derby Girls"]
["Louiville Slugga", "1117", "2012-06-03",
"Canberra Roller Derby"]
...
```

One JSON object per line

My process

- 1. Write a script that turns the raw data into a NDJSON file.
- 2. Write a script that takes that NDJSON file as input, and writes another NDJSON file.
- 3. Write a script that takes *that* NDJSON file as input, and writes *another* NDJSON file.

. . .

N. Write a script that pops the top item off the final NDJSON file, formats it, and posts it.

Pipeline components fetch the data

- Download web pages...
 - ...and then scrape them.
- Ask the GitHub API about Git repositories...
 - ...and then clone them.
- Get the data somehow…
 - ...and put it into an NDJSON file.
 - Or at least put the *metadata* in there.

Pipeline components crop the data

- Scrape useful information from an HTML file
- Split a PDF into page images
- Cut sentence fragments from a paragraph
- Turn a text file into a word-frequency histogram
- Extract text from a Minecraft world
- Parse a source code file into lines of text
- The output always includes a new NDJSON file!

Pipeline components filter the data

- Randomize the stream to avoid bias in a later component
- Remove items that
 - Are too big or too small
 - Are obviously offensive
 - Are duplicates, near-duplicates, or repetitive
 - Don't fit the theme of the bot
- The output always includes a new NDJSON file!

Advantages of the pipeline approach

- Leaves a record of each step
- Parallelizable
- Extensible
- Saves time when you change something
- Prevents duplicate posts

Bot credits

- @oldschoolflyers (by Darius Kazemi)
- @nypl_dogs (by Ashley Blewer)
- @moonshotbot (by Darius Kazemi)
- @MOMA_robot (by John Emerson)
- @DeathBot3000
- https://lonelydungeon.tumblr.com/
- @MinecraftSigns

More collection selection bots

- @ConwaysLives
- @pony_strategies
- @MythologyBot (by @BooDooPerson)
- @oblique_questions (by Matthew McVickar)
- @worldsofzzt (by @doscoon)

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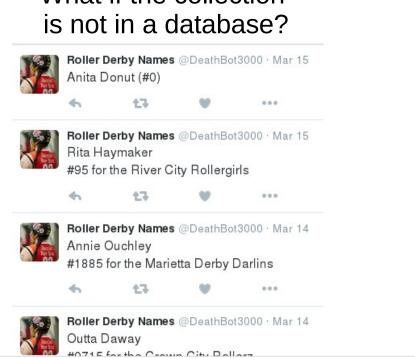


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Source: Compendium II (GURPS)

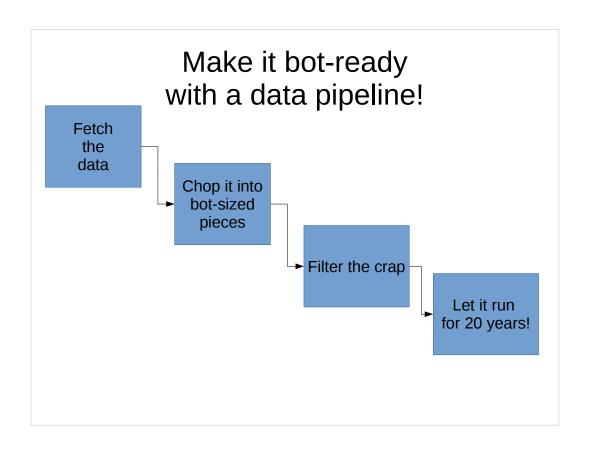


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What if most of the collection is boring?





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