Markov Model Name Generation

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This was a good opportunity to learn about Markov models with an interesting application. This built a model from a database of either boys or girls names and then used the model to generate new names.

## General Solution

The first step was to prompt the user for the input defining their request. This included:

* Male or female name
* Minimum & maximum name length
* Order of the Markov model
* Number of names to generate

Then the Markov model was built from either the boys or girls set of names at the requested order. Finally the names were generated. This involved taking building out from the root of the name and probabilistically determining the next letter in the name based on the pre-build model.

The names definitely had a gender-specific look to them.

Here are some examples:

Girls Names:

Kamiley

Lexus

Yadison

Karlet

Diyah

Brenel

Brenise

Aylie

Samantina

Nathalexandra

Boys Names:

Benjamed

Dustian

Fishi

Jeron

Semarquinnegan

Marquince

Jaylor

Maximiliott

Deacoby

Elises

This was another good project with which to learn the AI concepts. I came away with a good understanding of Markov models and had some fun doing it.