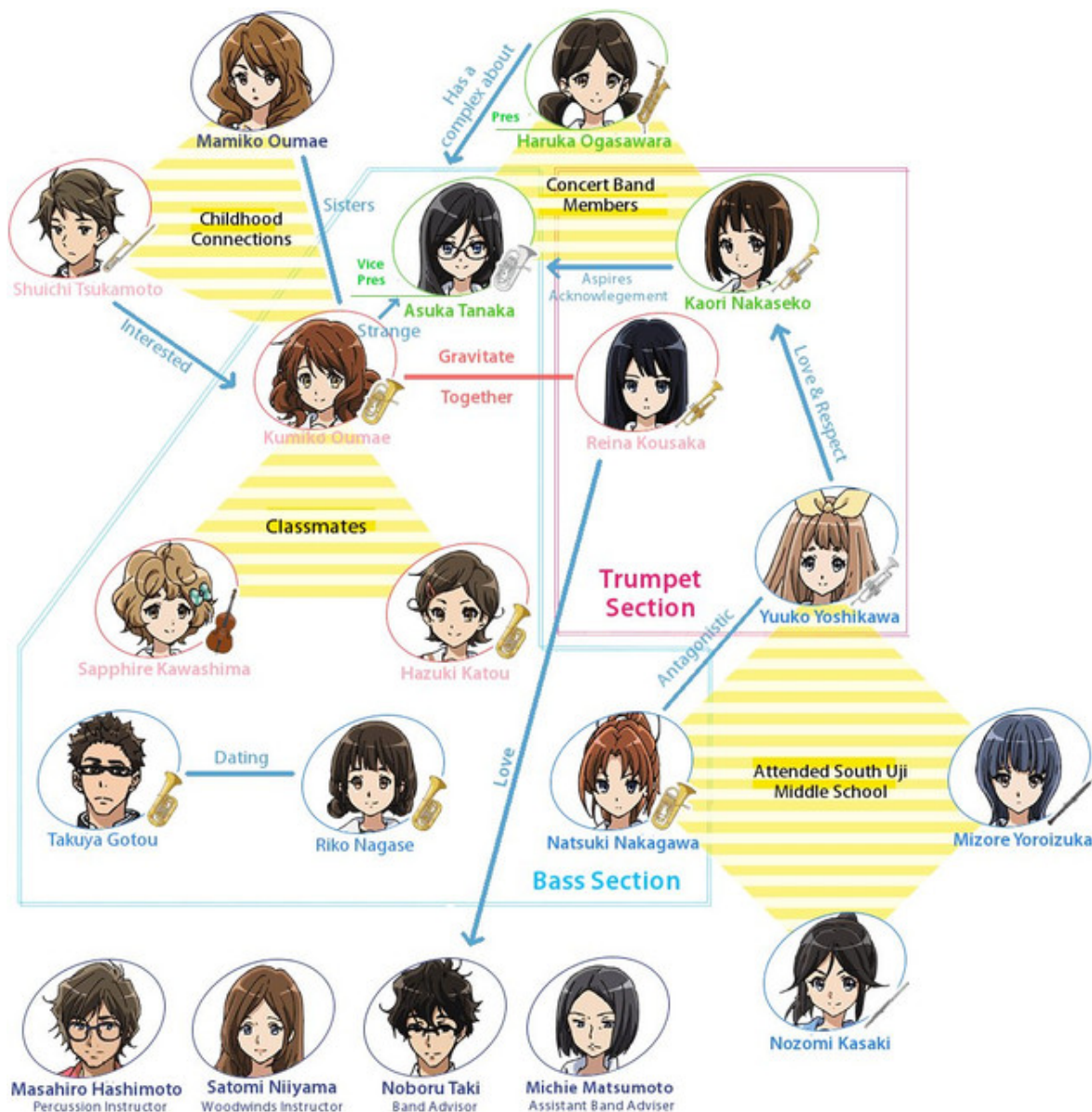


Imaginarium assignment 2

Character relationship maps

Overview

In this assignment, you will make a collection of characters connected by different sorts of relationships. You could think of it as generating setups for *Fiasco* or making one of the relationship charts you sometimes see for manga and anime. For example, this is a character relationship chart Crunchyroll made for *Sound! Euphonium*, which I haven't seen, but appears to be a comedy about students in a middle school band:



Whether you think of yourself as generating setups for a narrative game like *Fiasco* or fandom artifacts for anime series from an alternate universe, you're still fundamentally making a diagram of narratively interesting relationships between characters in a story. So make some characters, characters subkinds, and so on, and a bunch of relationships that seem like they might be interesting. Then type `imagine 10 characters` (or 5 or 50, whatever you want) and see what happens.

That's basically the requirement. Don't worry about passing unit tests. Just have fun. You've earned it.

Relationship hacking

As you'll remember from the tutorial, relationships are represented using verbs. When you define a verb, Imaginarium basically needs to know the following:

- What's it called?
- What kinds of things go on the left side (subjects of the verb)?
- What kinds of things go on the right side (objects of the verb)?
- Does it have any special properties?
 - Symmetric: if I'm friends with you, you're friends with me.
 - Anti-symmetric: if I work for you, you don't work for me.
 - Reflexive: we're all friends with ourselves
 - Anti-reflexive: we don't work for ourselves
 - Numerical limits: an employee works for one employer, a child is parented by at least one adult
 - Is it a special kind of some other relationship?

For example, let's say we're making a *Fiasco* setup. We could start by saying:

```
Characters can relate each other
```

Which says that `relate` is a verb and both its subject and object are characters. Apologies for saying "relate" rather than "relate to", which would read better. But I haven't had time to modify the code that conjugates verbs to understand how to make certain conjugations when there's a preposition at the end. So `relate` it is.

The "each other" part tells the system it's symmetric: if I relate you, you relate me. But this still leaves open the possibility that the system will generate characters, one of whose relationships is with themselves. We want to outlaw that by saying that relating is anti-reflexive. We can do that by saying:

```
Characters cannot relate themselves.
```

And finally, we can say everybody should have two relationships. You do that by saying:

```
A character must relate two other characters.
```

You can do variations on this. You can change the number:

```
A character must relate three other characters.
```

You just put a lower bound on the number of relationships rather than requiring a specific number:

```
A character must relate at least two other characters.
```

Or you can make it an upper bound. Notice that in this form, you say “can” rather than “must” because if there’s only an upper bound, then zero is an allowable number:

A character can relate up to two other characters.

Finally, you can specify kinds of relationships:

Loving is a way of relating.

Hating is a way of relating.

Each of these introduces a new verb (love and hate, respectively), which from context must also take characters as their subjects and objects, since that’s what relate does. Moreover, if a character loves or hates another character, then it also automatically relates it. But more than that, the “is a way of” construction says that if two characters are to relate, then must either love or hate one another, or one of the other ways of relating, assuming you’ve specified more.

So “is a way of” is the direct equivalent for verbs of “is a kind of” for nouns. There can be many different ways of relating, and since we told every character has to relate two other characters, the system has to, for each character, pick two characters for them to relate and then pick a specific verb that is a way of relating for that pair of characters.

Making relationship charts

That’s really all you have to do to make relationship charts:

- Introduce a noun for characters – you can use the one from my examples of you want.
- Introduce the basic boilerplate for relate (or you can call it something else like connect if you prefer):

Characters can relate each other.

Characters cannot relate themselves.

- If you just say this, even on average every character will be connected to half the other characters, and that gets overwhelming. So put some kind of limit on it, like:
 - Characters must relate two other characters
 - Characters can relate to up to four other characters
- Introduce a bunch of interesting verbs and make them all be ways of your relate verb (or connect, or whatever name you choose)
- Type imagine 10 characters (or 5 or whatever)

Specializing verbs to kinds of characters

Just because a verb is a way of relating doesn’t mean it has to apply to all characters. For example, if we say:

Adult and child are kinds of character.

Children can be big or small.

Then we can make a verbs that are specialized to kinds of characters:

An adult can parent many children.

Parenting is a way of relating.

Children can be friends with each other.

Being friends with is a way of relating.

A big child can bully a small child.

Bullying is a way of relating.

An adult can be secretly in love with another adult.

Being secretly in love with is a way of relating.

So even though relate is a general verb that can apply to any pair of characters, big or small, adult or child, there can be ways of relating that are specific to adults, to children, to one of each, or even to specific kinds of children.

What to do

Looks through the examples included with this assignment. Place them in your Generators directory and you'll be able to run them. Remember that if you hit TAB, you can see a visualization of the relationships.

Then start from one as a base, remove what you don't like and add in some stuff you do like. The only requirements are that you include at least:

- 10 verbs (more if you like)
- 5 character types
 - Don't feel obligated to use humans as your base for characters. Cats, monsters, monster cats, bears, dogs, and semi-sapient kitchen appliances are all valid.
- 10 adjectives to describe the characters

And that you specialize some of the verbs to particular character types.

Important: while you may reuse code from our examples, you may not count that code toward the requirements of the assignment. That is, you can copy in the cat stuff or the Fiasco stuff if you like, but you still have to add 10 more verbs, 5 more character types, and 10 more adjectives **on top of** whatever you copied over. If you do use other code, be sure to acknowledge it in your code. That is, add a comment before the copied code saying something like this (the # at the beginning marks it as a comment):

```
# The following 10 lines were copied from cats.gen
```

Otherwise just have fun. Make something that surprises you, or makes you imagine stories, or that just makes you laugh.

Flash fiction

Now generate some relationship maps until you find something you find interesting. Write a bit of [flash fiction](#) about some or all of the characters you generate. In particular, write a story of at least 6 sentences and no more than one page. As always, we will not be grading you on the quality of your fiction. We just want you to try it and have fun. Put your fiction in a txt or pdf file in the directory with your generator.

Turning it in

As usual, make a zip file of the folder your generator is in and upload it to canvas.

Grading

This assignment will be **peer graded**. That means that your assignment will be seen and graded by three other students and your grade will be the median (middle number) of the different grades they assign. They will grade using the rubric for this assignment on canvas, which will basically come down to:

- Does your generator work? That is, does it run?
- Does it have the requisite number of verbs, and such?
- Did you write your flash fiction, and did it involve characters whose relationships could have come from the generator?