What's a Program?

All programs are just files on your computer filled with text. That text has a special syntax we call code. The programming language you're using defines the syntax of the code you are allowed to write. Programs are converted to machine code so that the computer can understand it.

Interpreted vs Compiled

Depending on the programming language you're using, it will either be a compiled language or an interpreted language. Compiled programs will first be converted to machine code and then you will be able to run the program. Interpreted languages will be interpreted and converted to machine code at run time.

Running a Ruby Program

Once you have a Ruby program as a file, you can run it through the Ruby interpreter to execute it. Your Ruby interpreter is accessible via the ruby command in your command line (assuming you have ruby installed correctly).

Words in a Program

Every word and character in a program has to be valid code for the Ruby language. Basically, every word can be one of three possible things:

- . A Ruby keyword, something that's part of the ruby language.
- Literal data, things like "Strings" and numbers like 1 or 2.
- . Barewords you define and create, things like variables and methods.

Anything that isn't one of those is invalid and the Ruby interpreter will throw an error.