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Week 1

Ruby

      It is really intriguing to study Ruby. Overall, I think it's a good object-oriented programming language to practice and get things done. There are several parts that have made me excited about Ruby. Among them, syntactic sugar is the one, which makes code easier to read and write. In addition, I particularly liked the duck typing feature of dynamically typed Ruby. While talking about the syntaxes, I really loved some of them such as x**y (for doing x to the power of y) and two types of strings formation (' ' - around the string is interpreted literally and " " - around the string is for its evaluation). Ability to form hashes and arrays like ['4', '4.0'] is extremely important sometimes to create the sophisticated data structures. Along with that, I think it's really helpful to write conditional statements in one sentence since it makes code easier to understand and deal with. In Ruby, classes and methods can be nil so I imagine it's comfortable to code too. E.g

```
class NilClass
        def empty?
                True
        end
end
```

The most interesting part, for me, are the code blocks.

Although Ruby is the well-known widely used programming language, I guess it has some of the disadvantages while comparing with other programming languages. Such as, performance issue, Ruby is not hugely efficient in terms of execution speed. So, I consider it some time as the programming language to choose just to get something done or for building up some small startup. Despite being dynamically typed, it is difficult to catch as many errors as we can with static typing as compilers and tools can catch more errors with a statically typed system. And another important issue regarding Ruby is concurrency. For an instance, true or x.nagma? Is true whereas x.nagma? Might not be real. Therefore, I believe that there would be difficulty in debugging stuff. Previously, I didn't have any exposure to Ruby. But after learning it quite a bit, I assume it's easy to learn and carry on. Thus, as comparing to the languages I have been using (C# and JavaScript), I think Ruby is not that bad but I'd use it in the web-development stuff (especially for the backend). And I strongly believe that I will definitely use it at some point in the future.