CPS3320W01

Project 2\_2\_Delorean

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Write-up

1. Explain its central purpose: Delorean is a library for clearing up the inconvenient truths that arise dealing with datetimes in Python. Understanding that timing is a delicate enough of a problem delorean hopes to provide a cleaner less troublesome solution to shifting, manipulating, and generating datetimes. Delorean will provide natural language improvements for manipulating time, as well as datetime abstractions for ease of use. The overall goal is to improve datetime manipulations, with a little bit of software and philosophy. Delorean stands on the shoulders of giants pytz and dateutil.
2. describes useful and/or interesting ways in which it might be used (with at least two practical examples): I used several examples to explain it. Firstly, introduced Delorean, and then created a datetime using the current time in UTC format. Secondly, switched the time zone to Japan. According to the output of the British time in the first example, I found that its time was accurate to microseconds, but we did not care about it at the most time, so I omitted the data after the minute when the output shown the time in Japan. The third example was used to solve problems that many people will encounter in their lives. Take an example of my return to China. I took plane from New York to Shanghai at 03/28/2020 11:40, what time was it when I arrived in Shanghai? I set up the 03/28/2020 11:40 in the US/Eastern time zone and omitted the data after the minute firstly. Then I added 15-flight-hour on the time. Finally, I shifted the time into Asia/Shanghai time zone and got the correctly arriving time. The fourth example was getting the next Tuesday time in London. It is very convenient for people when they face the time zone to use the delorean.
3. provides a high-level overview of the different functions included in the library as found in its official documentation (and provide a link to the documentation): shift() function is used to change the time zone; timedelta() function is used to add or subtract time; next\_Tuesday(), last\_Friday(), last\_year() functions and so on are used to get the special time; truncate() function is used to filter second, minute, hour and so on.