

**what you are trying to do**

write a web scraper that

1. Detect the change inside a single web page
2. interactive with the change part
3. fill out the purchase information automotive
4. make the purchase

**why it is cool and/or useful**

Sometimes there is a limit to shopping online, the most common example is time limit discount online. The store will tell you that they will have some discount at a special time in a special day (like black Friday), however, the discount items are limited amount, so only the people who put their purchase first will enjoy the discount. If you are too late, then the items are out of stock, you can't enjoy the discount this time.

Other place I think is useful is when we try to buy something limited, like shoes, clothing, purse and etc. Those items may be expensive but some may be cheap, however they are all limited by the company that they will only sell certain amount. So, like the discount, only the first few people will have it.

My web scraper will help those people to get those discount and limited items easier. There are two main cool things. First, you don't need sit behind the computer and wait for the event start. Sometimes the discount or limited items are start midnight or early morning, or simply you can't make the purchase at that time. The web scraper will help you do that, also let web scraper to fill out the purchase information will definitely faster than other people to typing their information, so you will have higher chance to success your purchase.

**what the web site looks like under the hood (is it mostly HTML? JavaScript? etc.)**

mostly JavaScript, some HTML.

**what technology you'll use to do the scraping**

Beautiful soup 4 in Python will be the best choice to write a web scraper.

**what you are doing to do with the data once it is scraped**

detect the data change inside the web page and try to interactive with it.