

Software-Challenge

Description

A friend's grandmother regularly knits socks. But she spends way too much money on wool at the craft shop next door. Therefore, you want to programme a comparison portal for her (and all knitting grannies). The portal should display wool-knitting information from different websites.

To do so, you want to start by automatically reading information from a first website, the "[Wollplatz](https://www.wollplatz.de/)¹". You are interested in the price, the availability, the needle size and the composition.

You have selected the following billets for which you want to have the information:

Brand	Name
DMC	Natura XL
Drops	Safran
Drops	Baby Merino Mix
Hahn	Alpacca Speciale
Stylecraft	Special double knit

After starting the project, you are planning big things for your wool comparison portal.

Accordingly, you are already thinking about how you can capsule the code on this first website so that you can add more websites and functionalities later.

For the time being, however, you only want to save the data as a file in a simple, practical format.

¹ <https://www.wollplatz.de/>

Requirements

Technical:

Programming language: Python

Functional:

The listed balls of wool are automatically searched for on the website using the brand and name.

If available, the following information is stored in a file for each of the listed balls of wool:

- Price
- Availability
- Needle size
- Composition

Non-functional:

Create a few tests to verify the functional requirement.

Your code should be SOLID.

Use tools commonly used for software development, especially for larger projects.

Additional information

The challenge should be completed in 2-3 hours. If you need to read up on one or the other topic, maybe a bit longer. In any case, please let us know how much time you have spent.

The challenge is intentionally formulated openly so that you could also put in considerably more time. If you have an idea that you think is important but too extensive for this challenge, you can write it down for us in comments, a readme or similar.

Bonus: If you want to invest more time, you can also try to save the information not only in a file, but e.g., also store it in a database or display it in the browser. For this, please select any technologies that are convenient for you.