.col1{ font-weight:bold; width: 20%; display: inline-block; } .img { margin: 20px; width: 64px; display: inline-block; } .p{ line-height: 2; font-size:18px } .hem{ display:inline; } .bind{ display:inline-block; .bind1 { font-size:18px; </style> Nama : Muhammad Alfan Irsyadi Hutagalung : Persevere Kelas ID : 29 **Asal Universitas** : Universitas Sumatera Utara Jurusan/Fakultas : Matematika/FMIPA Let's Connect: You can open notebook in this repo with binder launch binder Latihan 1. Lakukan langkah persiapan untuk scrap web https://books.toscrape.com/ 2. Scrap https://books.toscrape.com/ untuk mencari info harga buku berdasarkan input user, dengan judul buku yang anda suka! 3. Tuliskan judul buku untuk rating >= 3 star ## Gunakan Jupyter Notebook untuk menampilkan hasil yang memuaskan !jupyter nbextension enable --py widgetsnbextension import ipywidgets as widgets from ipywidgets import interact, interact manual Enabling notebook extension jupyter-js-widgets/extension... - Validating: ok Jawaban Nomor 1: Lakukan langkah persiapan untuk scrap web https://books.toscrape.com/ Langkah 1: siapkan library yang dibutuhkan # download dan instal modul yang dibutuhkan !pip install builtwith !pip install python-whois !pip install pandas !pip install numpy !pip install beautifulsoup4 Requirement already satisfied: builtwith in d:\users\lenovo\anaconda3\lib\site-packages (1.3.4) Requirement already satisfied: six in d:\users\lenovo\anaconda3\lib\site-packages (from builtwith) (1.15.0) Requirement already satisfied: python-whois in d:\users\lenovo\anaconda3\lib\site-packages (0.7.3) Requirement already satisfied: future in d:\users\lenovo\anaconda3\lib\site-packages (from python-whois) (0.18. Requirement already satisfied: pandas in d:\users\lenovo\anaconda3\lib\site-packages (1.2.4)Requirement already satisfied: pytz>=2017.3 in d:\users\lenovo\anaconda3\lib\site-packages (from pandas) (2021. Requirement already satisfied: python-dateutil>=2.7.3 in d:\users\lenovo\anaconda3\lib\site-packages (from pand as) (2.8.1)Requirement already satisfied: numpy>=1.16.5 in c:\users\lenovo\appdata\roaming\python\python38\site-packages (from pandas) (1.22.2) Requirement already satisfied: six>=1.5 in d:\users\lenovo\anaconda3\lib\site-packages (from python-dateutil>= 2.7.3 - pandas) (1.15.0) Requirement already satisfied: numpy in c:\users\lenovo\appdata\roaming\python\python38\site-packages (1.22.2) Requirement already satisfied: beautifulsoup4 in d:\users\lenovo\anaconda3\lib\site-packages (4.9.3) Requirement already satisfied: soupsieve>1.2 in d:\users\lenovo\anaconda3\lib\site-packages (from beautifulsoup 4) (2.2.1) import re import urllib3 import urllib.request import pandas as pd import numpy as np from bs4 import BeautifulSoup import builtwith import whois from IPython.display import clear output from time import sleep Langkah 2: Cek websize Google site:https://books.toscrape.com $\times \mid \mathsf{Q}$ Q Semua : Lainnya Alat Sekitar 779 hasil (0.17 detik) Promosi Google Coba Google Search Console www.google.com/webmasters/ Anda punya books.toscrape.com? Dapatkan data pengindeksan dan pemeringkatan dari Google. https://books.toscrape.com · Terjemahkan halaman ini All products | Books to Scrape - Sandbox https://books.toscrape.com > p... · Terjemahkan halaman ini All products | Books to Scrape - Sandbox Langkah 3: Cek teknologi website dibuat menggunakan library builtwith builtwith.parse ('https://books.toscrape.com/') Out[111... {'web-servers': ['Nginx'], 'web-frameworks': ['Twitter Bootstrap'], 'javascript-frameworks': ['jQuery']} Langkah 4: Cek pemilik website menggunakan protokol whois dengan library python-whois print (whois.whois ('https://books.toscrape.com')) "domain name": ["TOSCRAPE.COM", "toscrape.com" "registrar": "Amazon Registrar, Inc.", "whois server": "whois.registrar.amazon.com", "referral url": null, "updated date": [$"2021-\overline{0}5-25 \ 22:54:15",$ "2021-05-25 22:54:16.257000" "creation date": "2016-06-28 20:26:52", "expiration date": "2022-06-28 20:26:52", "name servers": ["NS-1192.AWSDNS-21.ORG", "NS-1782.AWSDNS-30.CO.UK", "NS-437.AWSDNS-54.COM", 'NS-740.AWSDNS-28.NET" "ns-1192.awsdns-21.org", "ns-1782.awsdns-30.co.uk", "ns-437.awsdns-54.com", "ns-740.awsdns-28.net"], "status": ["clientTransferProhibited https://icann.org/epp#clientTransferProhibited", "renewPeriod https://icann.org/epp#renewPeriod" 1, "emails": ["abuse@amazonaws.com",

M06_S2_Teknikal_WebScraping

In [142...

%%html

<style>

@interact

Thank You!!

def show_rating_more_than (rate=(1,5,1)):

return df [df.Rating >= rate]

"owner-1961310@toscrape.com.whoisprivacyservice.org", "admin-1961310@toscrape.com.whoisprivacyservice.org", "tech-1961310@toscrape.com.whoisprivacyservice.org" "dnssec": "unsigned", "name": "On behalf of toscrape.com owner", "org": "Whois Privacy Service", "address": "P.O. Box 81226", "city": "Seattle", "state": "WA", "zipcode": "98108-1226", "country": "US" Langkah 5: Inspect element All products | Books to Scrape - Sandbox https://books.toscrape.com/catalogue/page-2.html ⊕ 2 Historical Fiction Seguential Art Warning! This is a demo website for web scraping purposes. Prices and ratings here were randomly assigned and have no real meaning Classics Philosophy Romance Womens Fiction HOW Fiction Childrens MUSIC WORKS Religion Nonfiction Music DAVID **BYRNE** Science Fiction Sports and Games 195 × 20 **** Add a comment Fantasy How Music Works Foolproof Preserving: A Guide Chase Me (Paris Nights New Adult Young Adult £12.84 £37.32 £30.52 £25.27 • Poetry ✓ In stock ✓ In stock Paranormal ✓ In stock ✓ In stock before i class="col-xs-6 col-sm-4 col-md-3 col-lg-3"> carticle class="product_pod"> ▶ ⟨div class="image_container">_</div> ▶ cp class="star-rating One">_ 半 W In Her Wake = Nomor 2: Scrap https://books.toscrape.com/ untuk mencari info harga buku berdasarkan input user, dengan judul buku yang anda suka! %%time urllib3.disable warnings () #disable annoying warnings judul = [] harga = [] rating = [] # def to number (kata): if kata == 'One' : return 1 elif kata =='Two': return 2 elif kata =='Three': return 3 elif kata =='Four': return 4 else: return 5 print ('Sedang memproses....') for page in range (1,51): response = urllib.request.urlopen(f'https://books.toscrape.com/catalogue/page-%d.html'%page) html = response.read() soup = BeautifulSoup(html, 'html.parser') for i in soup.find all ("article", class ="product pod"): for j in i.find("h3"): judul.append(j.get('title')) text = html.decode() rate = re.findall('', text) price = re.findall ('(.*?)', text) rating.append (rate) harga.append (price) clear output (wait=True) **if** (page != 50): string = 'Sedang memproses'+'.'* (page%4) else: string = 'Selesai :D' print (string) print ('Page %2d/50: '%page, ' ' '*int (np.floor (page/5)) +\ '\cdot' \int (np.floor (10- page/5)) +' '+str (page*2) +'%', end='') sleep (0.01) print(' ') harga = np.array(harga).flatten() rating = np.array(rating).flatten() df = pd.DataFrame({'Judul':judul, 'Harga':harga, 'Rating':rating}) df.Rating = df.Rating.apply (lambda x: int (to number (x))) df.Judul = df.Judul.apply (lambda x: x.lower()) Selesai :D Page 50/50: Wall time: 1min 21s In [114... @interact def show title contain (Judul='frank'): return df [df.Judul.str.contains (Judul.lower())] Nomor 3: Tuliskan judul buku untuk rating >= 3 star