



**Amirkabir University of Technology
(Tehran Polytechnic)**

Report of the Web crawling and scraping

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First try: (Using bs4 for scraping Houzz website) Failed

Second try: (Using Scrapy) failed in runtime saving part

third try: (Using Scraping and additional functions) Successful

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+ Scraping Movie websites + BeautifulSoup + Pickle lib for pickling data

+ Implementing Scraping & Crawling with Octoparse toolkit

0) Introduction

0.1) How to Setup and run the code

In some cases you need to uncomment some lines(those that install libraries) and run other part's in order

This code is compatible with Colab and Python3

0.2) Houzz vs Lewis John?

At first Houzz (by now H) has rating and review for almost all of its products but Lewis John (by now L) has not review and rating for most of its products.

H is more simpler in terms of address of products but L is relatively complicated and is burst with a lot of branches and sub branches and it makes it even more difficult for Crawling.

In Robots.txt of H user have more permission for scraping products data than L. (I will explain Robots.txt later)

0.3) Output format

	A	B	C	D	E	F	G	H	I	J	K
1	names	described as	image 1	image 2	url						
2	Uttermost 23244 Gamlin - 41	['counter', 'gamlin gray', 'stool', 'ut	https://st.hzcdn.com/fimgs/ei	https://st.hzcdn.com/fimgs/1f2190fe0bc5effb_3671	https://www.houzz.com/products/uttermost-23244-gamlin-41-coun						
3	GDF Studio Evelyn Mid Cent	[]	https://st.hzcdn.com/fimgs/c1	https://st.hzcdn.com/fimgs/ffb1f4a90f9082d2_3629	https://www.houzz.com/products/gdf-studio-evelyn-mid-century-n						
4	Colter Leather Dining Arm C	['Black Colter Dining Arm Chair', 'C	https://st.hzcdn.com/fimgs/44	https://st.hzcdn.com/fimgs/171164d9080a7f74_754	https://www.houzz.com/products/colter-leather-dining-arm-chair-v						
5	Glacier Country Collection S	['dining chair', 'dining room', 'genu	https://st.hzcdn.com/fimgs/4c	https://st.hzcdn.com/fimgs/389106e507169138_303	https://www.houzz.com/products/glacier-country-collection-side-ch						
6	GDF Studio Oliver Farmhous	[]	https://st.hzcdn.com/fimgs/1c	https://st.hzcdn.com/fimgs/5201ffb10f9068ff_3657	https://www.houzz.com/products/gdf-studio-oliver-farmhouse-arm						
7	Paloma Cognac Velvet Accer	[]	https://st.hzcdn.com/fimgs/5f	https://st.hzcdn.com/fimgs/10311f450c378f89_6966	https://www.houzz.com/products/paloma-cognac-velvet-accent-cha						
8	Modern Dining Chairs Wood	['2xhome chairs', '2xhome Wood	https://st.hzcdn.com/fimgs/4c	https://st.hzcdn.com/fimgs/2d61e5af0b1051d7_007	https://www.houzz.com/products/modern-dining-chairs-wood-arm						
9	Victoria Modern Dining Chai	[]	https://st.hzcdn.com/fimgs/ei	https://st.hzcdn.com/fimgs/a4010a920f931da3_370	https://www.houzz.com/products/victoria-modern-dining-chair-wit						
10	West Palm Living Room Accc	['Beige accent chair', 'living room	https://st.hzcdn.com/fimgs/3c	https://st.hzcdn.com/fimgs/006140ec0d0d2e1a_612	https://www.houzz.com/products/west-palm-living-room-accent-ch						
11	Giselle Velvet Dining Chairs	['accent chair', 'armless', 'Dining',	https://st.hzcdn.com/fimgs/3c	https://st.hzcdn.com/fimgs/6b61b8190ae90000_745	https://www.houzz.com/products/giselle-velvet-dining-chairs-set-c						
12	Sienna Leather Dining Chair	['Dining', 'frame construction', 'fra	https://st.hzcdn.com/fimgs/1c	https://st.hzcdn.com/fimgs/4351474205b01de6_028	https://www.houzz.com/products/sienna-leather-dining-chair-matt						
13	High Wingback Linen Armch	['accent chair', 'accent chairs tuft	https://st.hzcdn.com/fimgs/bi	https://st.hzcdn.com/fimgs/25b18d4e0f272be9_048	https://www.houzz.com/products/high-wingback-linen-armchair-pu						
14	Divani Casa Joseph Modern	['accent chair', 'metal', 'orange', 'u	https://st.hzcdn.com/fimgs/9c	https://st.hzcdn.com/fimgs/52b102b70b48767e_14c	https://www.houzz.com/products/divani-casa-joseph-modern-oran						
15	Safavieh Clara Quilted Swiv	['accent chairs', 'contemporary', 'n	https://st.hzcdn.com/fimgs/2c	https://st.hzcdn.com/fimgs/9b6182ad0c92a147_534	https://www.houzz.com/products/safavieh-clara-quilted-swivel-tu						
16	Booth Performance Velvet S	['chair', 'Dining', 'Home', 'home di	https://st.hzcdn.com/fimgs/ff	https://st.hzcdn.com/fimgs/5921f7290e331305_458	https://www.houzz.com/products/booth-performance-velvet-swive						
17	Montalto Pin-Tuck Lift Chair	['brown', 'saville']	https://st.hzcdn.com/fimgs/f6	https://st.hzcdn.com/fimgs/fbf1ebce079a2427_771	https://www.houzz.com/products/montalto-pin-tuck-lift-chair-savil						
18	Omax Decor Jane Lounge Ac	['arm chair', 'armchairs', 'blue', 'co	https://st.hzcdn.com/fimgs/1c	https://st.hzcdn.com/fimgs/13c106380f99fc23_8349	https://www.houzz.com/products/omax-decor-jane-lounge-accent-						
19	Rosco Velvet Accent Chair, C	['charcoal chair', 'FOAM CHAIR', 'h	https://st.hzcdn.com/fimgs/2f	https://st.hzcdn.com/fimgs/5051853d0f283d69_364	https://www.houzz.com/products/rosco-velvet-accent-chair-charco						
20	Lemele Velvet Dining Chairs	['dining chairs', 'dining chairs with	https://st.hzcdn.com/fimgs/11	https://st.hzcdn.com/fimgs/ede1671e0a2856ed_71	https://www.houzz.com/products/lemele-velvet-dining-chairs-set-						
21	Gianna Velvet Dining Chair,	['accent chair', 'beige', 'Best', 'blac	https://st.hzcdn.com/fimgs/fa	https://st.hzcdn.com/fimgs/bc613d340c917f7e_676	https://www.houzz.com/products/gianna-velvet-dining-chair-gray-g						
22	Amy Swivel Accent Chair, Cc	['accent chairs', 'comfortable', 'cor	https://st.hzcdn.com/fimgs/5c	https://st.hzcdn.com/fimgs/42d13a110e910040_165	https://www.houzz.com/products/amy-swivel-accent-chair-coastal-						
23	Omax Decor Zola Lounge Ch	['accent chair', 'beige', 'blue', 'brov	https://st.hzcdn.com/fimgs/fe	https://st.hzcdn.com/fimgs/4bc12e8d0ba2f52d_625	https://www.houzz.com/products/omax-decor-zola-lounge-chair-br						
24	Heidi Velvet Dining Chairs,	['accent chair', 'beige', 'Best', 'blac	https://st.hzcdn.com/fimgs/0f	https://st.hzcdn.com/fimgs/eed169200ae90044_207	https://www.houzz.com/products/heidi-velvet-dining-chairs-set-of						
25	Aniline Leather Lounge Chair	['eames chair', 'eames inspired lo	https://st.hzcdn.com/fimgs/22	https://st.hzcdn.com/fimgs/659199710ef2282f_718c	https://www.houzz.com/products/aniline-leather-lounge-chair-and						
26	Xavier Velvet Dining Chair,	['black', 'chrome', 'chrome steel le	https://st.hzcdn.com/fimgs/1c	https://st.hzcdn.com/fimgs/d5c117280dd7053b_287	https://www.houzz.com/products/xavier-velvet-dining-chair-gray-g						
27	Frances Leather Craft Sofa,	['dark brown sofa', 'Leather Craft',	https://st.hzcdn.com/fimgs/21	https://st.hzcdn.com/fimgs/928112be07c720ec_789	https://www.houzz.com/products/frances-leather-craft-sofa-dark-b						
28	Nikki Velvet Dining Chairs,	['beautiful', 'Best', 'comfortable',	https://st.hzcdn.com/fimgs/4c	https://st.hzcdn.com/fimgs/af81daab0db1c274_740	https://www.houzz.com/products/nikki-velvet-dining-chairs-set-of						
29	Palermo White Sofa, Boucle	['3 seater', 'boucle fabric', 'boucle	https://st.hzcdn.com/fimgs/a2	https://st.hzcdn.com/fimgs/1e41e46d0e4dae50_63i	https://www.houzz.com/products/palermo-white-sofa-boucle-prvw						

We have 5 column: name of product, description, image1 , image2 , ULR of corresponding page of those images.

We can use these images for Machine learning and image recognition.

0.4) Robots.txt

If you want to have an access to this file you should search “WebsiteURL/Robots.txt”. This file announce the limitation of all type of users (humans, search engines, robots and other type of agents) Robots.txt for H and L are saved with names “HouzzRobots.txt” and LewisRobots.txt” in the main folder of the project.

For more information check this websites: [Link1](#) , [Link2](#)

0.5) Scrapy vs Selenium vs Beautiful Soup

In a nut shell:

if you are dealing with complex Scraping operation that requires huge speed and with low power consumption then Scrapy would be a great choice.

If you're new to programmer want to work with web scraping projects then you should go for *Beautiful Soup*. you can easily learn it and able to perform the operations very quickly up to a certain level of complexity.

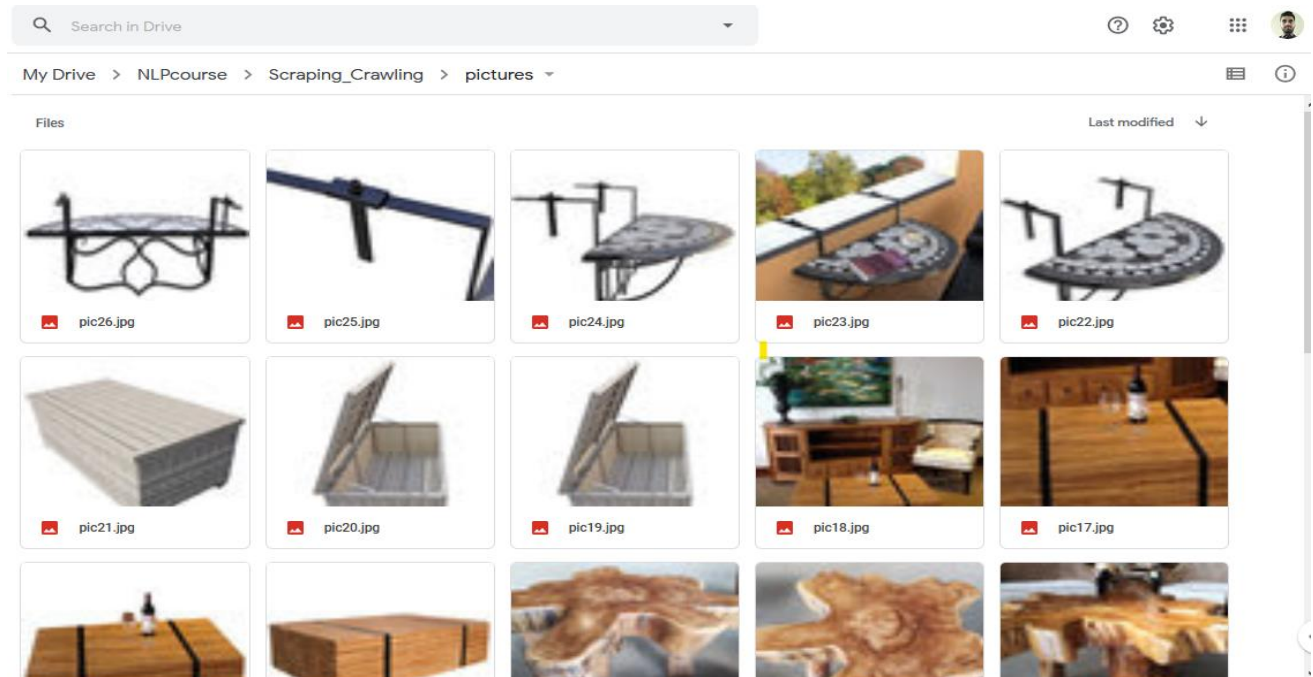
When you want to deal with Core JavaScript based web Applications and want to make browser automation with AJAX/PJAX Requests. then Selenium would be a great choice.

For more info, check [this](#) out

Phase 1) Scraping Houzz

First try: (Using bs4 for scraping Houzz website) Failed

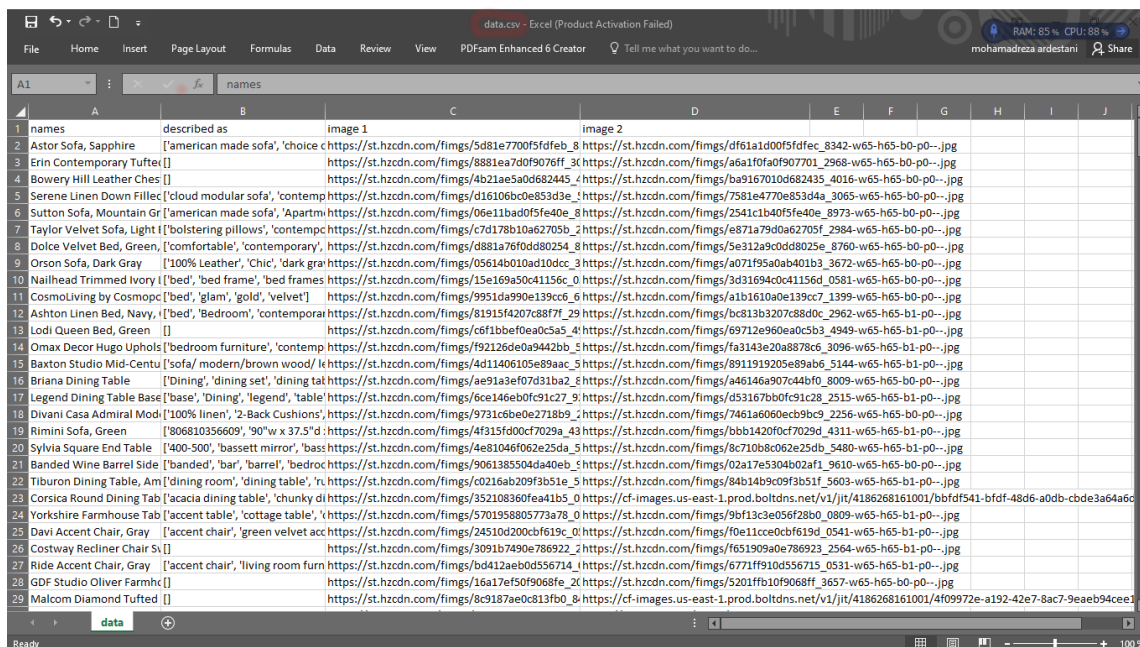
Collected images in the first try (but it's slow and we are going to second try)



Second try: (Using Scrapy) failed in runtime saving part

Data.csv file is for second try.

It works perfectly but the only issue is we save data at the end of scraping.



A	B	C	D
names	described as	image 1	image 2
1 names	described as	image 1	image 2
2 Astor Sofa, Sapphire	['american made sofa, 'choice	https://st.hzcdn.com/fimgs/5d81e7700f5dfdeb_8	https://st.hzcdn.com/fimgs/df61a1d00f5dfdec_8342-w65-h65-b0-p0--jpg
3 Erin Contemporary Tufted	['	https://st.hzcdn.com/fimgs/8881ea7d0f9076ff_3	https://st.hzcdn.com/fimgs/a6a1f0fa0f907701_2968-w65-h65-b0-p0--jpg
4 Bowery Hill Leather Ches	['	https://st.hzcdn.com/fimgs/4b21ae5ad0682445_4	https://st.hzcdn.com/fimgs/ba916701d0682435_4016-w65-h65-b0-p0--jpg
5 Serene Linen Down Fillec	['cloud modular sofa, 'contemp	https://st.hzcdn.com/fimgs/d16106bce853d3e_8	https://st.hzcdn.com/fimgs/7581e4770e853d4a_3065-w65-h65-b0-p0--jpg
6 Sutton Sofa, Mountain Gr	['american made sofa, 'Apartm	https://st.hzcdn.com/fimgs/06e11bad0f5fe40e_8	https://st.hzcdn.com/fimgs/2541c1b40f5fe40e_8973-w65-h65-b0-p0--jpg
7 Taylor Velvet Sofa, light l	['bolstering pillows, 'contemp	https://st.hzcdn.com/fimgs/c7d178b10a62705b_2	https://st.hzcdn.com/fimgs/e871a79d0a62705f_2984-w65-h65-b0-p0--jpg
8 Dolce Velvet Bed, Green	['comfortable, 'contemporary,	https://st.hzcdn.com/fimgs/d881a76f0dd80254_8	https://st.hzcdn.com/fimgs/5e312a9c0dd8025e_8760-w65-h65-b0-p0--jpg
9 Orson Sofa, Dark Gray	['100% Leather, 'Chic, 'dark gra	https://st.hzcdn.com/fimgs/05614b010ad10dce_3	https://st.hzcdn.com/fimgs/a071f95a0ab401b3_3672-w65-h65-b0-p0--jpg
10 Nailhead Trimmed Ivory l	['bed, 'bed frame, 'bed frames	https://st.hzcdn.com/fimgs/15e169a50c41156c_0	https://st.hzcdn.com/fimgs/3d31694c0c41156d_0581-w65-h65-b0-p0--jpg
11 CosmoLiving by Cosmopoc	['bed, 'glam, 'gold, 'velvet'	https://st.hzcdn.com/fimgs/9951da990e139cc_6	https://st.hzcdn.com/fimgs/a1b1610a0e139cc7_1399-w65-h65-b0-p0--jpg
12 Ashton Linen Bed, Navy, l	['bed, 'Bedroom, 'contemporar	https://st.hzcdn.com/fimgs/81915f420f6c8f7f_29	https://st.hzcdn.com/fimgs/bc31b3207c88d0c_2962-w65-h65-b1-p0--jpg
13 Lodi Queen Bed, Green	['	https://st.hzcdn.com/fimgs/c6f1bbe0e0a0c5a5_4	https://st.hzcdn.com/fimgs/69712e960e0a0c5b3_4949-w65-h65-b1-p0--jpg
14 Omax Decor Hugo Uphols	['bedroom furniture, 'contemp	https://st.hzcdn.com/fimgs/f92126e0a9442b_5	https://st.hzcdn.com/fimgs/fa3143e20a8878c6_3096-w65-h65-b1-p0--jpg
15 Baxton Studio Mid-Centru	['sofa, modern/brown wood/ l	https://st.hzcdn.com/fimgs/4d11406105e89aac_5	https://st.hzcdn.com/fimgs/8911919205e89ab6_5144-w65-h65-b1-p0--jpg
16 Briana Dining Table	['Dining, 'dining set, 'dining tal	https://st.hzcdn.com/fimgs/ae91a3ef07d31ba2_9	https://st.hzcdn.com/fimgs/a46146a907c44b0f_8009-w65-h65-b0-p0--jpg
17 Legend Dining Table Base	['base, 'Dining, 'legend, 'table'	https://st.hzcdn.com/fimgs/6ce146eb0f9c1c27_9	https://st.hzcdn.com/fimgs/d53167b0f9c1c28_2515-w65-h65-b1-p0--jpg
18 Divani Casa Admiral Mod	['100% linen, '2-Back Cushions, '	https://st.hzcdn.com/fimgs/9731c6be0e2718b9_2	https://st.hzcdn.com/fimgs/7461a6060ecb9bc9_2256-w65-h65-b0-p0--jpg
19 Rimini Sofa, Green	['806810356609, '90" w x 37.5" d	https://st.hzcdn.com/fimgs/4f315f4d00c7029a_43	https://st.hzcdn.com/fimgs/bbb1420f0c7029d_4311-w65-h65-b1-p0--jpg
20 Sylvia Square End Table	['400-500, 'bassett mirror, 'basi	https://st.hzcdn.com/fimgs/4e81046f062e25da_5	https://st.hzcdn.com/fimgs/8c710b8c062e25db_5480-w65-h65-b1-p0--jpg
21 Corsica Round Dining Tab	['banded, 'bar, 'barrel, 'bedroc	https://st.hzcdn.com/fimgs/9061385504da40eb_5	https://st.hzcdn.com/fimgs/02a17e5304b02af1_9610-w65-h65-b0-p0--jpg
22 Tiburon Dining Table, Am	['dining room, 'dining table, 'r	https://st.hzcdn.com/fimgs/c0216ab209f3b51e_5	https://st.hzcdn.com/fimgs/84b14b9c09f3b51f_5603-w65-h65-b1-p0--jpg
23 Corsica Round Dining Tab	['acacia dining table, 'chunky di	https://st.hzcdn.com/fimgs/352108360fe41b5_0	https://cf-images.us-east-1.prod.boltdns.net/v1/jt/4186268161001/bbfd541-bfdf-48d6-a0db-cbde3a64a60
24 Yorkshire Farmhouse Tab	['accent table, 'cottage table, '	https://st.hzcdn.com/fimgs/5701958805773a78_0	https://st.hzcdn.com/fimgs/9bf13c3e056f28b0_0809-w65-h65-b1-p0--jpg
25 Davi Accent Chair, Gray	['accent chair, 'green velvet acc	https://st.hzcdn.com/fimgs/24510d200cbf619c_0	https://st.hzcdn.com/fimgs/f0e11cce0cbf619d_0541-w65-h65-b1-p0--jpg
26 Costway Recliner Chair S	['	https://st.hzcdn.com/fimgs/3091b7490e786922_2	https://st.hzcdn.com/fimgs/f651909a0e786923_2564-w65-h65-b1-p0--jpg
27 Ride Accent Chair, Gray	['accent chair, 'living room furn	https://st.hzcdn.com/fimgs/bd412aeb0d556714_1	https://st.hzcdn.com/fimgs/6771f910d556715_0531-w65-h65-b1-p0--jpg
28 GDF Studio Oliver Farmhc	['	https://st.hzcdn.com/fimgs/16a17ef50f9068f2_2	https://st.hzcdn.com/fimgs/5201f1bf10f9068ff_3657-w65-h65-b0-p0--jpg
29 Malcom Diamond Tufted	['	https://st.hzcdn.com/fimgs/8c9187ae0c813fb0_8	https://cf-images.us-east-1.prod.boltdns.net/v1/jt/4186268161001/4f09972e-a192-42e7-8ac7-9eae94cee1

third try: (Using Scraping and additional functions) Successful

FinalData.csv is for the third try

In this try we store the data at running time 😊 .

FinalData.csv

Open with Google Sheets

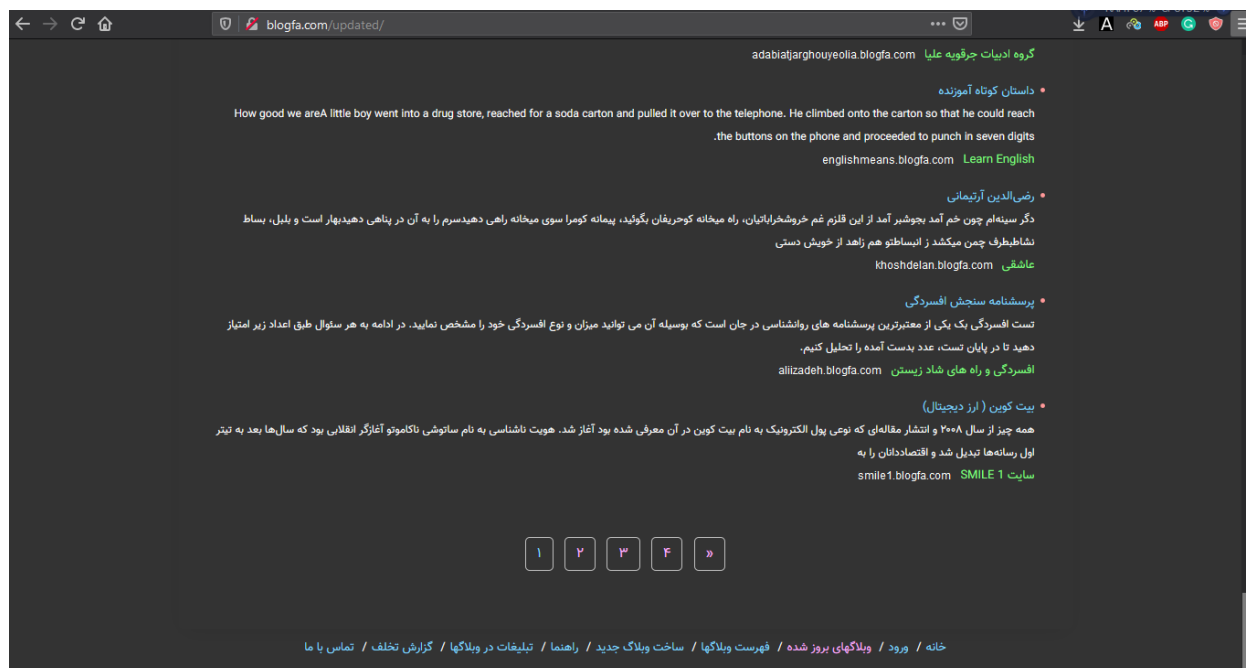
	A	B	C	D	E
1	names	described as	image 1	image 2	url
2	Uttermost 23244 Giar	['counter', 'gamlin gr	https://ik.hzcdn.com/	https://ik.hzcdn.com/	https://www.houzz.co
3	GDF Studio Evelyn I	[']	https://ik.hzcdn.com/	https://ik.hzcdn.com/	https://www.houzz.co
4	Colter Leather Dining	['Black Colter Dining	https://ik.hzcdn.com/	https://ik.hzcdn.com/	https://www.houzz.co
5	Glacier Country Coll	['dining chair', 'dinin	https://ik.hzcdn.com/	https://ik.hzcdn.com/	https://www.houzz.co
6	GDF Studio Oliver F	[']	https://ik.hzcdn.com/	https://ik.hzcdn.com/	https://www.houzz.co
7	Paloma Cognac Vel	[']	https://ik.hzcdn.com/	https://ik.hzcdn.com/	https://www.houzz.co
8	Modern Dining Chair	['2home chair', '2d	https://ik.hzcdn.com/	https://ik.hzcdn.com/	https://www.houzz.co
9	Victoria Modern Din	[']	https://ik.hzcdn.com/	https://ik.hzcdn.com/	https://www.houzz.co
10	West Palm Living Ro	['Beige accent chair	https://ik.hzcdn.com/	https://ik.hzcdn.com/	https://www.houzz.co
11	Giselle Velvet Dining	['accent chair', 'arm	https://ik.hzcdn.com/	https://ik.hzcdn.com/	https://www.houzz.co
12	Sienna Leather Dining	['Dining', 'Trame con	https://ik.hzcdn.com/	https://ik.hzcdn.com/	https://www.houzz.co
13	High Wingback Line	['accent chair', 'acce	https://ik.hzcdn.com/	https://ik.hzcdn.com/	https://www.houzz.co
14	Divani Casa Joseph	['accent chair', 'met	https://ik.hzcdn.com/	https://ik.hzcdn.com/	https://www.houzz.co
15	Avieeh Clara Quilt	['accent chair', 'con	https://ik.hzcdn.com/	https://ik.hzcdn.com/	https://www.houzz.co
16	South Performance	['chair', 'Dining', 'Mor	https://ik.hzcdn.com/	https://ik.hzcdn.com/	https://www.houzz.co
17	Montalto Pin-Tuck L	['brown', 'naville']	https://ik.hzcdn.com/	https://ik.hzcdn.com/	https://www.houzz.co
18	Omax Decor Jane L	['arm chair', 'armcha	https://ik.hzcdn.com/	https://ik.hzcdn.com/	https://www.houzz.co
19	Rosco Velvet Accen	['charcoal chair', 'FO	https://ik.hzcdn.com/	https://ik.hzcdn.com/	https://www.houzz.co
20	Lemlele Velvet Dinin	['dining chair', 'vini	https://ik.hzcdn.com/	https://ik.hzcdn.com/	https://www.houzz.co
21	Gianna Velvet Dining	['accent chair', 'beig	https://ik.hzcdn.com/	https://ik.hzcdn.com/	https://www.houzz.co
22	Amy Swivel Accent	['accent chair', 'con	https://ik.hzcdn.com/	https://ik.hzcdn.com/	https://www.houzz.co
23	Omax Decor Zola Lo	['accent chair', 'beig	https://ik.hzcdn.com/	https://ik.hzcdn.com/	https://www.houzz.co
24	Heidi Velvet Dining	['accent chair', 'beig	https://ik.hzcdn.com/	https://ik.hzcdn.com/	https://www.houzz.co
25	Aniline Leather Lou	['teames chair', 'eame	https://ik.hzcdn.com/	https://ik.hzcdn.com/	https://www.houzz.co
26	Xavier Velvet Dining	['black', 'chrome', 'ch	https://ik.hzcdn.com/	https://ik.hzcdn.com/	https://www.houzz.co
27	Frances Leather Ora	['dark brown sofa', 'Le	https://ik.hzcdn.com/	https://ik.hzcdn.com/	https://www.houzz.co
28	Nile Velvet Dining	['beautiful', 'Beac', 'c	https://ik.hzcdn.com/	https://ik.hzcdn.com/	https://www.houzz.co
29	Palermo White Sofa	['3 seater', 'boucle fa	https://ik.hzcdn.com/	https://ik.hzcdn.com/	https://www.houzz.co

FinalData.csv

checkpoints.csv

3 loaded completely

Phase 2) Blogfa.com



ادابات چرقويه عليا

داستان کوتاه آموزنده

How good we areA little boy went into a drug store, reached for a soda carton and pulled it over to the telephone. He climbed onto the carton so that he could reach the buttons on the phone and proceeded to punch in seven digits

englishmeans.blogfa.com Learn English

رضی‌الدین آرتیماعی

دگر سینه‌ام چون خم آمد پجوشبر آمد از این قارم غم خروخ‌خوابان، رله میخانه کوجریقان بگرفتد، پهمانه کوسرا سوی میخانه راهی دهیدسرم را به آن در پناهی دهیدبهار است و بلبل، بناسط نشاطیطرف چمن میکشد ز انبساطو هم زاهد از خویش دستی

عاشقی

khoshdelan.blogfa.com

پرستشنامه سنجش افسردگی

تست افسردگی یک یکی از معتبرترین پرستشنامه های روانشناسی در جهان است که بوسیله آن می توانید میزان و نوع افسردگی خود را مشخص نمایید. در ادامه به هر سؤال طبق اعداد زیر امتیاز دهید تا در پایان تست، عدد بدست آمده را تحلیل کنیم.

افسردگی و راه های شاد زیستن

alizadeh.blogfa.com

بیت کوین (ارز دیجیتال)

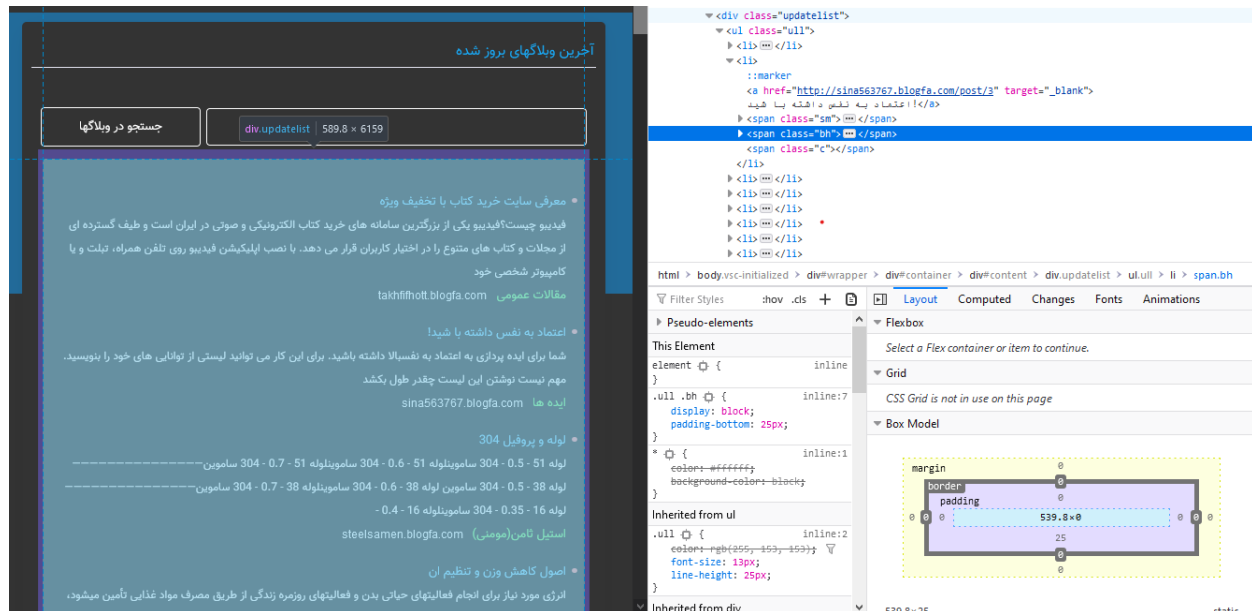
همه چیز از سال ۲۰۰۸ و انتشار مقاله‌ای که نوی پول الکترونیک به نام بیت کوین در آن معرفی شده بود آغاز شد. هویت ناشناسی به نام ساتوشی ناکاموتو آغازگر انقلابی بود که سال‌ها بعد به تیر اول رسانه‌ها تبدیل شد و اقتصاددانان را به

سایت 1 SMILE

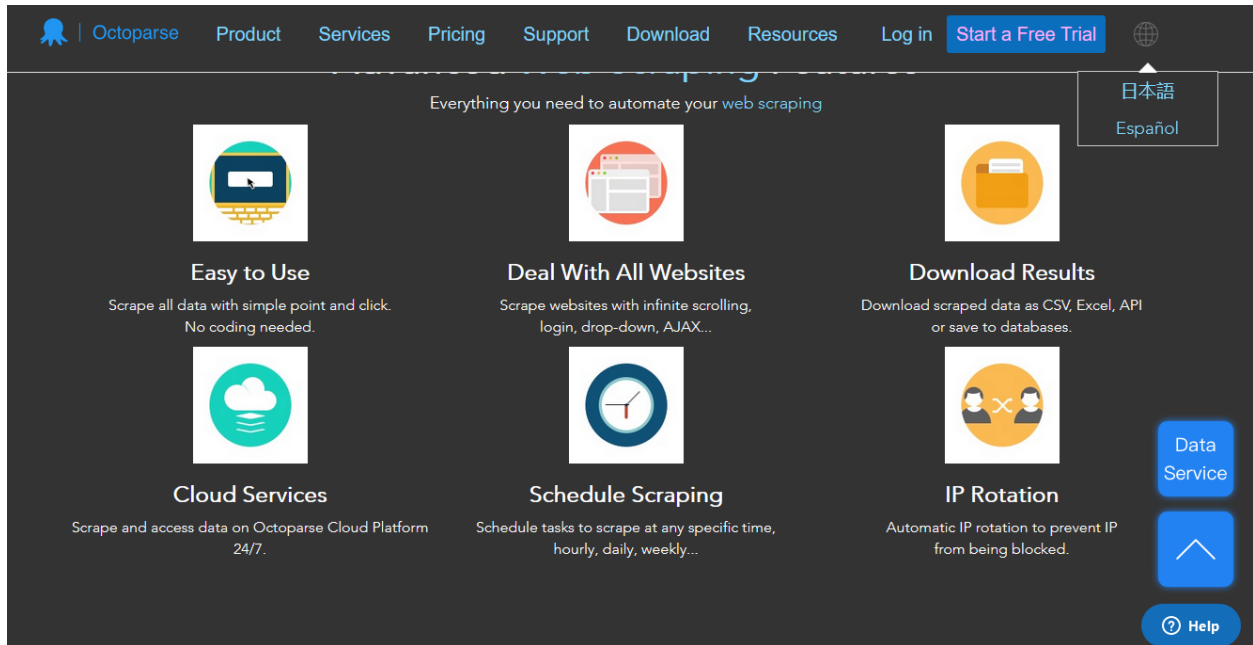
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Blogfa shows recent updated blogs in /undated/ directory. So we use this link. Also blog fa only has 5 pages for showing these result.
<http://blogfa.com/updated/?p=2> for instance this is page number two.



+ Implementing Scraping & Crawling with Octoparse toolkit



This website is highly reliable for scraping and crawling. In this framework we can set parameters without unnecessary coding for gathering data.

Sincerely yours and Thanks for your time and attentions.