

Tasks before lecture

Install selenium into Anaconda environment

In terminal:





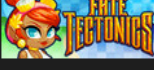


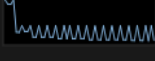

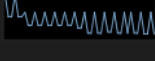
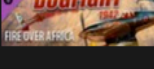

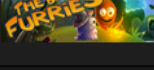

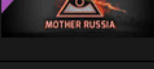



“pip install selenium”

Download “geckodriver”

[https://github.com/mozilla/geckodriver/
releases](https://github.com/mozilla/geckodriver/releases)

WEB Scraping
WEB Bot
WEB Spider
WEB Robot
WEB Harvesting
WEB Data Retrieval

Extracting
UNSTRUCTURED
EASY FOR HUMANS TO READ
data from websites

Sales as of Sep 19, 2017 7:46 PM PDT		HIDE DLC
	Vickinachi Lowest Price: \$4.99 \$0.49 -90%	 -90%
	DRAGON: A Game About a Dragon Lowest Price: \$4.99 \$0.49 -96%	 -90%
	Fate Tectonics Lowest Price: \$9.99 \$0.99 -90%	 -90%
	Stones of Sorrow Lowest Price: \$3.99 \$0.51 -87%	 -87%
	Dogfight 1942 Russia Under Seige Lowest Price: \$2.99 \$0.50 -83%	 -83%
	Dogfight 1942 Fire Over Africa Lowest Price: \$2.99 \$0.50 -83%	 -83%
	Brave Furies Lowest Price: \$3.99 \$0.79 -80%	 -80%
	The Black Watchmen - Mother Russia Lowest Price: \$4.99 \$0.99 -80%	 -80%
	Equalizer Lowest Price: \$9.99 \$1.99 -80%	 -80%

Shouty Box (Beta)

Anon: when is 7 days to die on sale
Anon: do you guys like dying light
Anon: waiting for the thanksgiving sale to finish my collection :P
Anon: im back guy lol
Anon: test
Anon1: Apple X is legit
Anon: When is the next Terraria sale? will it be 80% off?
Anon: When halloween sale????
Anon: In around 6 weeks
Anon: waiting for warband for sale

Anon

News

Valve changed something. Fixed code to compensate.

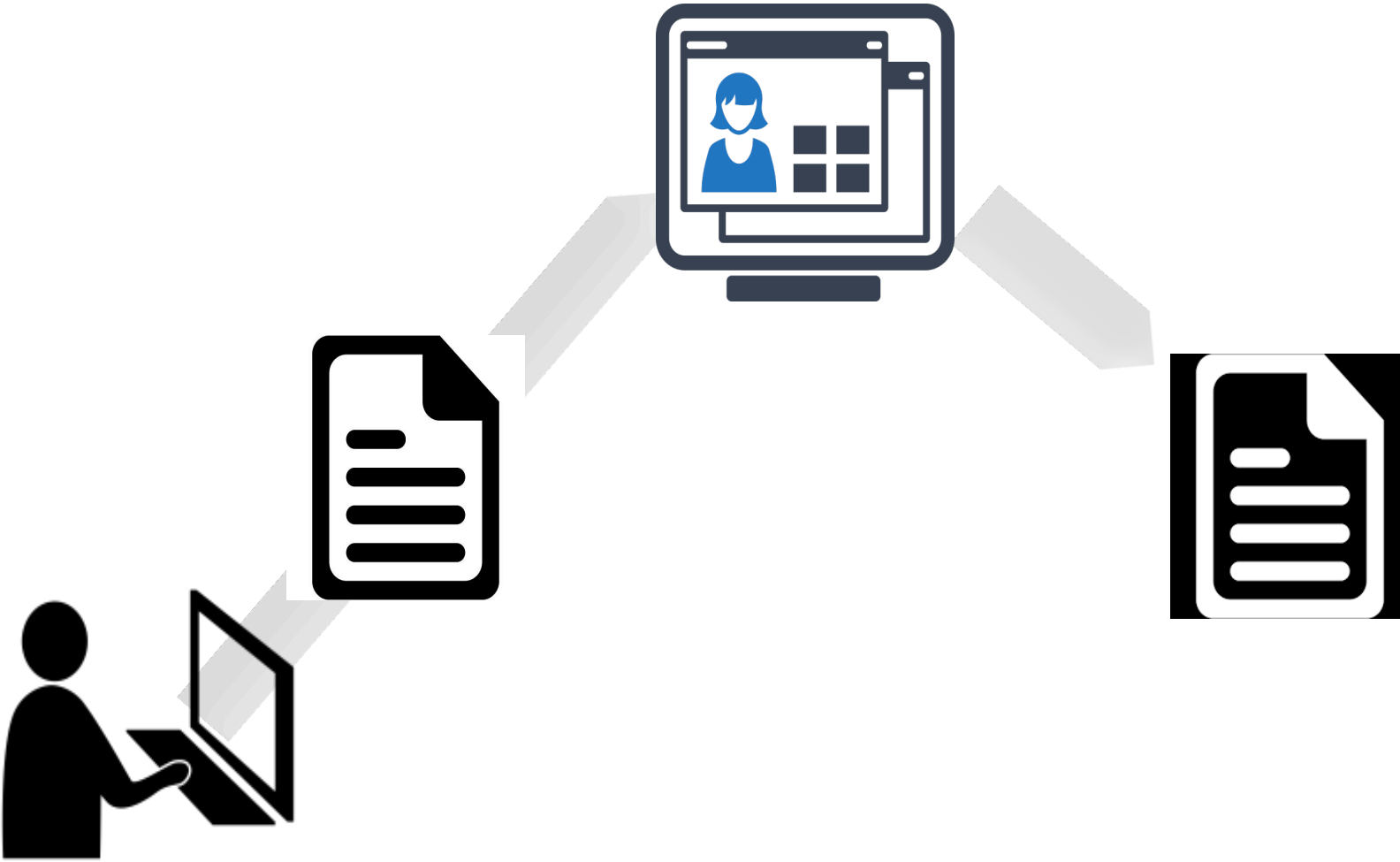
- Rhekua

HEY! How this website work?

Carefull

Extracting Game sales information

If a MACHINE uploaded the information online, we have a good chance to retrieve initial, before the MACHINE handled, form of the information



PROCESSING 0%

Publish

Click "Publish" to make your video live.

Draft saved.

Basic info

Translations

Advanced settings

small

Public

Description

Also share on



d

Add a message to your video

Tags (e.g., albert einstein, flying pig, mashup)

+ Add to playlist

VIDEO THUMBNAILS

Thumbnail selections will appear when the video has finished processing.

Custom thumbnail

Upload status:

Processing your video.

Your video will be live at:
<https://youtu.be/P4926UMasA8>

Video / Audio quality:

Your videos will process faster if you encode into a streamable file format. For more information, visit our [Help Center](#).

```
<div id="content" class="style-scope ytd-expander"> == $
  <-yt-formatted-string id="description" class="content
style-scope ytd-video-secondary-info-renderer" split-
lines>
  "Have you ever wondered how Facebook is able to
automatically display your Instagram photos? How
about how Evernote syncs notes between your computer
and smartphone? If so, then it's time to get
excited!

  During this 2 hour workshop, we'll walk you through
what it takes to link different IT systems together
thanks to this common tool called an Application
Programming Interface (API).

  We will start off easy, explaining the basics of
(web) APIs: what they are, how they work, and why
they matter.

  ---

<h1 class="title style-scope ytd-video-primary-info-
renderer">API for beginners</h1>
```

API for beginners

117,166 views

830 26 SHARE



Le Wagon

Published on Jun 5, 2016

SUBSCRIBE 12K

Have you ever wondered how Facebook is able to automatically display your Instagram photos? How about how Evernote syncs notes between your computer and smartphone? If so, then it's time to get excited!

During this 2 hour workshop, we'll walk you through what it takes to link different IT systems together thanks to this common tool called an Application Programming Interface (API).

We will start off easy, explaining the basics of (web) APIs: what they are, how they work, and why they matter.

Le Wagon is the first bootcamp bringing technical skills to creative entrepreneurs in London.

Web Scraping

Extracting data from websites

Two common ways:

- Downloading HTML file, where website text and visualization codes are stored
- Imitating web browser to visualize HTML file and only then copy data

```
40 <div id="mw-js-message" style="display:none;"></div>
41 <!-- sitenotice -->
42 <div id="siteNotice"><!-- CentralNotice --></div>
43 <!-- /sitenotice -->
44 <!-- firstHeading -->
45 <h1 id="firstHeading" class="firstHeading" lang="en"><span dir="auto">.fi</span></h1>
46 <!-- /firstHeading -->
47 <!-- bodyContent -->
48 <div id="bodyContent">
49 <!-- tagline -->
50 <div id="siteSub">From Wikipedia, the free encyclopedia</div>
51 <!-- /tagline -->
52 <!-- subtitle -->
53 <div id="contentSub"></div>
54 <!-- /subtitle -->
55 <!-- jumpto -->
56 <div id="jump-to-nav" class="mw-jump">
57 Jump to: <a href="#mw-navigation">navigation</a>, <a
58 href="#p-search">search</a>
59 </div>
60 <!-- /jumpto -->
61 <!-- bodycontent -->
62 <div id="mw-content-text" lang="en" dir="ltr" class="mw-content-ltr"><table class="infobox" cellpadding="3" style="border-spacing: 3px;
63 width:22em;"
64 <caption class="" style="">.fi</caption>
65 <tr class="">
66 <td colspan="2" class="" style="text-align:center;"><a href="/wiki/File:Ficora.png" class="image" title="Finnish Communications Regulatory Authority"></a></td>
68 </tr>
69 <tr class="">
70 <th scope="row" style="text-align:left;">Introduced</th>
71 <td class="" style="">1986</td>
72 </tr>
73 <tr class="">
74 <th scope="row" style="text-align:left;"><a href="/wiki/Top-level_domain" title="Top-level domain">TLD</a> type</th>
75 <td class="" style=""><a href="/wiki/Country_code_top-level_domain" title="Country code top-level domain">Country code top-level domain</a></td>
76 </tr>
77 <tr class="">
78 <th scope="row" style="text-align:left;">Status</th>
79 <td class="" style="">Active</td>
80 </tr>
81 <tr class="">
82 <th scope="row" style="text-align:left;"><a href="/wiki/Domain_name_registry" title="Domain name registry">Registry</a></th>
83 <td class="" style=""><a href="/w/index.php?title=FICORA&action=edit&redlink=1" class="new" title="FICORA (page does not exist)">FICORA</a></td>
84 </tr>
```

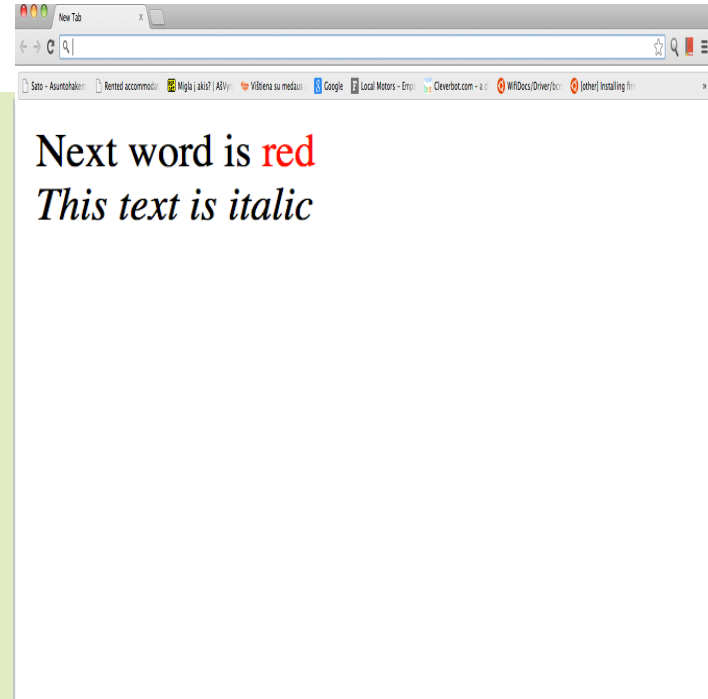


Static webpage

CODE

```
<!DOCTYPE html>  
<html>  
<body>  
  
Next word is <font color = red>red</font>  
<br>  
<i>This text is italic</i>  
  
</body>  
</html>
```

RESULT IN BROWSER



Text - “next word is...”

Tags - <font....>...

<Tags> is an agreement that user will see the same content that was created.



Felix always added HTML tags to his articles ... though he really questioned their effectiveness.

Why so many “tags”?

fancy, user friendly web pages

Search Engine Optimization

Example from

“Finland Forum”

Community



Jobs and Entrepreneurship in Finland

NEWTOPIC*

4509 topics • Page 1 of 91 • 1 2 3 4 5 ... 91

FINLAND	TOPICS	REPLIES	VIEWS	LAST POST
	Starting a business in Finland by gavin » Mon Dec 01, 2003 11:13 pm 1 ... 14 15 16	227	48519	by cors187 Sun Mar 10, 2013 11:10 pm
	Use Of Jobs Forum - Please Observe by neil » Tue Mar 09, 2004 12:41 pm	0	16331	by neil Tue Mar 09, 2004 12:41 pm
	FAQ A21-A23 and other mysterious payscales, taxes etc. by Hank W. » Mon Nov 03, 2003 11:16 pm	0	11594	by Hank W. Mon Nov 03, 2003 11:16 pm

Regarding toiminimi

by timmys » Wed Jan 10, 2007 5:54 pm

Toiminimi is nothing more than Finnish meaning of the word entails: it is the name under which a particular legal entity conducts business. This entity can be either a natural person (private trader), partnership (avoin yhtiö/Ay), limited partnership (kommandiitti yhtiö/Ky) or a corporation (osakeyhtiö/Oy). The easier way to acquire the right to particular toiminimi is by registering your business. The other way to do it is free, but I wouldn't recommend it.

Registration forms (in english):

<http://www.ytj.fi/sivu.asp?path=605;634>

Fees (in english):

<http://www.prh.fi/en/kaupparekisteri/hinnasto.html>

The law which regulates toiminimi is: Toiminimilaki

<http://www.finlex.fi/fi/laki/ajantasa/1979/19790128> (in Finnish)

by Rosamunda » Thu Jan 11, 2007 11:33 am

Finland Blue wrote:

Hello Penelope,

Just curious to know, what kind of company your Oy will be?

Language training. I could've used a TMI ("natural person" I) but as we already had an Oy from a few years back we just re-did the paperwork and gave it a new name and business activity, no need to put up any new capital. From a tax point of view it can be more advantageous than the TMI but does involve a bit more paperwork.

Timmys.... most people I talk to use the term "TMI" exclusively to refer to private-trader companies. It may be incorrect but it has become common usage I believe.

by timmys » Thu Jan 11, 2007 3:08 pm

Penelope you are right on the common usage of the word, however I was merely trying to clarify the legal reality behind the term. Using it only to refer to "yksityinen elinkeinonharjoittaja" (private entrepreneur/trader) is not incorrect from a legal perspective. It is noteworthy to mention that I'm most definitely no expert in legal matters, in spite of being a public law student. Most of my grades are beyond pathetic.

As for creating a Oy (a Limited liability company) the Enterprise Finland site has basic instructions, the direct link is below.

<http://www.enterprisefinland.fi/liston/> ... =3863&l=en

by Hank W. » Thu Jan 11, 2007 4:09 pm

Just as a sidenote, there is a new free service <http://www.palkka.fi> for calculating hiring expences etc. for small businesses.

timmys

Posts: 40
Joined: Wed May 17, 2006 10:39 pm

Rosamunda

Posts: 9205
Joined: Sat Feb 07, 2004 1:07 am

timmys

Posts: 40
Joined: Wed May 17, 2006 10:39 pm





Structure is needed to collect data automatically

Message:

Comment form

Here is a photo of my bike:

[IMG]http://dl.dropbox.com/u/16875602/PermaLinks/gsxr.jpg[/IMG]

You'll notice the forums have automatically wrapped my URL with the [IMG] tags.

|



Data Base

User	Message	Date
whoever	Here is my pho...	2012-02-12
whoever2	I don't give a...	2012-02-13

Web Page

`<div="mess">here is my...</div>`

`<div="user">whoever</div>`

































...



Jobs and Entrepreneurship in Finland

NEWTOPIC*

4509 topics • Page 1 of 91 • 1 2 3 4 5 ... 9

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 FAQ A21-A23 and other mysterious payscales, taxes etc. by Hank W. » Mon Nov 03, 2003 1:16 pm	0	11594	by Hank W.  Mon Nov 03, 2003 1:16 pm
 Total tax percentage by Felice86 » Mon Mar 25, 2013 5:08 pm	13	166	by Felice86  Thu Mar 28, 2013 2:33 pm
 Looking for English-speaking teachers/assistants by Amandine.K » Thu Mar 28, 2013 11:19 am	0	24	by Amandine.K  Thu Mar 28, 2013 11:19 am
 Itella Posti not renewing my contract by umairfinland » Wed Mar 27, 2013 7:59 pm	14	169	by cors187  Thu Mar 28, 2013 10:26 am
 Job Brokers in Finland by roger_roger » Thu Mar 21, 2013 3:18 am	11	213	by Adrian42  Wed Mar 27, 2013 12:26 am
 English Language Teaching Jobs in Helsinki/Uusimaa by mankk11 » Thu Mar 21, 2013 3:00 pm	5	200	by Rosamunda  Tue Mar 26, 2013 7:15 pm
 Premier Business Networking Event April 2013 by richard berman » Tue Mar 26, 2013 5:18 pm	0	34	by richard berman  Tue Mar 26, 2013 5:18 pm
 german girl looing for a summerjob by Lisssy » Tue Mar 26, 2013 2:45 pm	0	39	by Lisssy  Tue Mar 26, 2013 2:45 pm
 Worker needed over summer-Helsinki Greater Area by cors187 » Mon Mar 18, 2013 2:35 am	11	388	by Rosamunda  Mon Mar 25, 2013 8:51 pm
 PhD accounting in Belgium or Finland by andtrip » Sun Mar 24, 2013 3:50 pm	0	66	by andtrip  Sun Mar 24, 2013 3:50 pm
 Business or IT Engineering? by ommmmid » Sun Mar 24, 2013 8:44 am	4	73	by ommmmid  Sun Mar 24, 2013 11:43 am
 Desperately looking for a job by khalid345 » Tue Mar 05, 2013 11:01 pm	10	591	by sentajazz  Sat Mar 23, 2013 4:35 pm
 Looking for an experienced English teacher.. by Vit » Sat Mar 23, 2013 4:33 pm	0	76	by Vit  Sat Mar 23, 2013 4:33 pm
 Requesting expat views on job search support by Oye » Tue Mar 19, 2013 3:19 pm	14	302	by geek5354  Fri Mar 22, 2013 3:14 pm

<p>Regarding toiminimi D by timmys » Wed Jan 10, 2007 5:54 pm</p> <p>Toiminimi is nothing more than Finnish meaning of the word entails: person(private trader), partnership(avoin yhtiö/Ay), limited partnership acquire the right to particular toiminimi is by registering your business Registration forms (in english): http://www.ytj.fi/sivu.asp?path=605;634 Fees(in english): http://www.prh.fi/en/kaupparekisteri/hinnasto.html</p> <p>The law which regulates toiminimi is: Toiminimilaki http://www.finlex.fi/fi/laki/ajantasa/1979/19790128 (in Finnish)</p>	<p>timmys Posts: 40 Joined: Wed May 17, 2006 10:39 pm</p> <p style="text-align: center;"><Tag 2></p>
<p>D by Rosamunda » Thu Jan 11, 2007 11:33 am</p> <p>« Finland Blue wrote: Hello Penelope, Just curious to know, what kind of company your Oy will be?</p> <p style="text-align: center;"><Tag 1></p> <p>Language training. I could've used a TMI ("natural person" !) but as we already had an Oy from a few years back we just re-did the paperwork and gave it a new name and business activity, no need to put up any new capital. From a tax point of view it can be more advantageous than the TMI but does involve a bit more paperwork.</p> <p>Timmys.... most people I talk to use the term "TMI" exclusively to refer to private-trader companies. It may be incorrect but it has become common usage I believe.</p>	<p>Rosamunda Posts: 9205 Joined: Fri Jan 02, 2004 1:07 am</p> <p style="text-align: center;"><Tag 2></p>
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What it takes to get these messages automatically?

- Automatically getting the source code of each page
- Saving into your computer

```
10 <meta name="keywords" content="" />
11 <meta name="description" content="" />
12
13 <title>Starting a business in Finland &bull; Finland Forum</title>
14
15
16
17 <!--
18   phpBB style name: prosilver
19   Based on style:   prosilver (this is the default phpBB3 st
20   Original author: Tom Beddard ( http://www.subBlue.com/ )
21   Modified by:
22 -->
23
24 <script type="text/javascript">
25 // 
26   var jump_page = 'Enter the page number you wish to go to!';
27   var on_page = '2';
28   var per_page = '15';
29   var base_url = './viewtopic.php?f=37&amp;amp;t=2432';
30   var style_cookie = 'phpBBstyle';
31   var style_cookie_settings = ''; path=/; domain=.finlandforum.org';
32   var onload_functions = new Array();
33   var onunload_functions = new Array();
34
35
36
37   /**
38    * Find a member
39    */
40   function find_username(url)
41   {
42     popup(url, 760, 570, '_usersearch');
43     return false;
44   }
45
46   /**
47    * New function for handling multiple calls to window.onload and window.unload by pentapenguin
48    */
49   window.onload = function()
50   {
51     for (var i = 0; i &lt; onload_functions.length; i++)
52     {
53       eval(onload_functions[i]);
54     }
55   };
56
57   window.onunload = function()
58   {
59     for (var i = 0; i &lt; onunload_functions.length; i++)
60     {
61       eval(omunload_functions[i]);
62     }
63   };
64
65 // ]]&gt;
66 &lt;/script&gt;
67 &lt;script type="text/javascript" src="./styles/prosilver/template/stylewitcher.js"&gt;&lt;/script&gt;
68 &lt;script type="text/javascript" src="./styles/prosilver/template/forum_fn.js"&gt;&lt;/script&gt;</pre></div><div data-bbox="418 135 850 275" data-label="Code-Block"><pre>&lt;?php
$homepage = file_get_contents('http://www.example.com/');
file_put_contents("whatever.txt", $homepage);
?&gt;</pre></div><div data-bbox="345 600 405 660" data-label="Image"><img alt="Red arrow pointing right"/></div><div data-bbox="410 615 735 665" data-label="Text"><p>Find pattern (relevant tags)</p></div><div data-bbox="640 600 700 660" data-label="Image"><img alt="Red arrow pointing right"/></div><div data-bbox="710 615 925 665" data-label="Text"><p>Call what to extract</p></div><div data-bbox="890 35 970 280" data-label="Image"><img alt="Blue rectangular graphic element"/></div>
```

Always Show Bookmarks Bar ⌘B

Stop ⌘.

Force Reload This Page ⌘R

Enter Presentation Mode ⌘F

Actual Size ⌘0

Zoom In ⌘+

Zoom Out ⌘-

Encoding ▶

Developer ▶

View Source ⌘U

Developer Tools ⌘I

JavaScript Console ⌘J

so that the product does 1 of 1

```
</div>
<div class="
11 <div class="postbody">
12
13
14 <h3 class="first"><a href="#p193001">Consumer rights info</a></h3>
15 <p class="author"><a href="/viewtopic.php?p=193001#p193001"></a>by <strong><a
href="/memberlist.php?mode=viewprofile&amp;u=7990">raamv</a></strong> &raquo; Tue Mar 27, 2007 2:28 pm </p>
16
17
18
19 <div class="content"><!-- m --><a class="postlink" href="http://www.kuluttajavirasto.fi/user/loadFile.asp?
id=5393">http://www.kuluttajavirasto.fi/user/loa ... spid=5393</a><!-- m -->
20 <br />
21 <br />In the first instance, the consumer can demand that the defect be repaired or the product be replaced with one that has no defects.
The seller is, however, entitled to repair the defect before delivering a non-defective product, if he can do it within a reasonable
period of time, without cost to the buyer and so that the product does not depreciate in value. The repair or replacement of the product
must be performed without any essential inconvenience to the buyer.
22 <br />If it is not possible for the seller to repair the defect or to deliver a non-defective product, or if he does not perform this
within reasonable time, the consumer can demand a reduction in price or cancellation of the whole deal.
23 <br />
24 <br />AND
25 <br />According to this:
26 <br /><a href="http://europa.eu/rapid/pressReleasesAction.do?
reference=MEMO/07/48&amp;format=HTML&amp;aged=0&amp;language=EN&amp;guiLanguage=fr" class="postlink">The Directive on Sale of Consumer
Goods and Guarantees</a>: If a product you buy does not conform to the agreement you made with the seller at the time of purchase, you
can take it back and have it repaired or replaced. Alternatively, you can ask for a price reduction, or a complete refund of your money.
This applies for up to two years after you take delivery of the product.
27 <br />Edit: To clean up some spaces to reduce confusion..</div>
28
29
30 <div class="notice">Last edited by <a href="/memberlist.php?mode=viewprofile&amp;u=7990">raamv</a> on
Tue Mar 27, 2007 11:37 pm, edited 1 time in total.
31
32
33 </div>
34 <div id="sig193001" class="signature">
35 <br /></div>
36
37 </div>
```



by Finland Blue » Wed Jan 10, 2007 3:20 pm

Hello Penelope,

Just curious to know, what kind of company your Oy will be?

» Wed Jan 10, 2007 3:20 pm
</p>

```
<div class="content">  
Hello Penelope,  
<br>  
<br>  
Just curious to know, what kind of company your Oy will be?  
</div>
```

</div>

<dl class="postprofile" id="profile136667">

by Rosamunda » Thu Jan 11, 2007 11:33 am

« Finland Blue wrote:

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Language training. I could've used a TMI ("natural person" !) but as we already had an Oy from a few years back and the same name and business activity, no need to put up any new capital. From a tax point of view it can be more advantageous than the TMI but does involve a bit more paperwork.

Timmys.... most people I talk to use the term "TMI" exclusively to refer to

```
<div class="content">
```

```
<blockquote>
```

```
<div>
```

```
<cite>
```

```
Finland Blue wrote:
```

```
</cite>
```

```
Hello Penelope,
```

```
<br>
```

```
<br>
```

```
Just curious to know, what kind of company your Oy will be?
```

```
</div>
```

```
</blockquote>
```

```
<br>
```

```
<br>
```

```
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```

```
<br>
```

```
<br>
```

```
Timmys.... most people I talk to use the term "TMI" exclusively to refer to private-trader companies. It may be
```

```
</div>
```

by suudella » Wed May 16, 2007 7:40 am

If I register a limited company with another partner in a country, is it a matter?

```
</p>
```

```
<div class="content">
```

```
If I register a limited company with another partner in a country,
```

```
</div>
```

```
</div>
```

```
<dl class="postprofile" id="profile203179">
```

1. Find text '`<div class="content">`'
2. Take text in between '`<div class="content">`' and '`</div>`'
3. Search for more

```
<a href="/memberlist.php?mode=viewprofile&u=14467">
suudella
</a>
</strong>
» Wed May 16, 2007 7:40 am
</p>
<div class="content">
If I register a limited company with another partner in a country outside EU, h
</div>
</div>
<dl class="postprofile" id="profile203179">
```

Unfort

view unanswered posts • view active topics

FINLAND FORUM OFFICIAL

Frequently Asked Questions
Find answers to frequently asked questions about Finland Forum, plus answers to common questions on this site.

FINLAND FORUM ASSISTANCE

Moving To Finland
How to? Read other's experiences. Find useful advice on shipping, immigration, residence

Living in Finland
Where to buy? Where can I find? How do I? Getting started.

by raamv • Wed Jan 10, 2007 2:22 am

Anyone know any guides on creating a Oy? Any pointers?

by Rosamunda • Wed Jan 10, 2007 10:23 am

Gevin gave all the best ones at the top of this thread and most of them are in English (eg Enterprise Finland and the patents office) he was running his own business in Finland when he posted the sticky (he now works in Russia).

More recently there have been a few changes: the minimum capital for an Oy has decreased from 8000 euro to (IIRC) 2500 euro. I set mine up last year but will only start using it this year so am not really an expert yet.

Display posts from previous: All posts | Sort by Post time | (Ascending) | Go

28 posts • Page 1 of 16 • 1 2 3 4 5 ... 16

< Return to Jobs and Entrepreneurship in Finland

Jump to: Jobs and Entrepreneurship in Finland | Go

Great Babysitter / Nanny service in english and spanish by sheyla • Wed Jan 09, 2013 10:16 pm	2	287	by macmillan Sun Mar 10, 2013 5:38 pm
Public Relations/ Communications internship wanted! by kaitlynn • Fri Mar 08, 2013 6:40 pm	2	147	by neronskos Sun Mar 10, 2013 12:09 pm
Looking for job in Helsinki by marisa • Wed Mar 06, 2013 10:28 pm	3	150	by rosamunda Fri Mar 08, 2013 7:33 pm
URGENT! Looking for a technical position? by marisa • Wed Feb 27, 2013 10:12 pm	7	616	by rosamunda Thu Mar 07, 2013 7:52 pm
Experienced web developer/web designer is seeking for a job by sigurd_rygg • Sat Feb 16, 2013 11:33 am	1	250	by krodas Thu Mar 07, 2013 7:26 pm
URGENT Looking for Accountant to help with Annual Tax return by loicsans • Thu Mar 07, 2013 10:42 am	0	107	by loicsans Thu Mar 07, 2013 10:42 am
what to expect for an interview for a technical position? by marisa • Wed Feb 27, 2013 10:12 pm	6	237	by cors187 Wed Mar 06, 2013 5:49 pm
Auxiliary trade name by The_SIB • Mon Mar 04, 2013 4:01 pm	4	161	by Rosamunda Mon Mar 04, 2013 8:54 pm

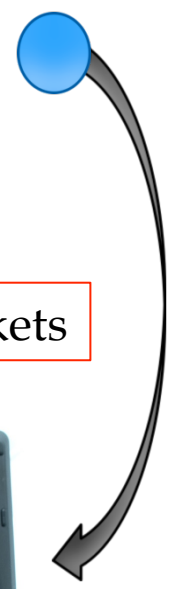
Display topics from previous: All Topics | Sort by Post time | (Descending) | Go

4509 topics • Page 1 of 91 • 1 2 3 4 5 ... 91

Visit each sub-category, gather all links to threads, visit each thread, gather page number, visit all pages in the thread, and extract messages from the

LOGIN • REGISTER

Username: Password:



Small queries Small packets



http://
www



Dynamic webpage



Practical part

We need to import “webdriver” from” selenium” library, in order to connect python environment with Firefox browser, and “time” library as we will need to set timeouts

```
from selenium import webdriver
import time
```

We need to import “webdriver” from” selenium” library, in order to connect python environment with Firefox browser, and “time” library as we will need to set timeouts

```
driver = webdriver.Firefox(executable_path="path/to/geckoriver")|
```

Now we can start manipulating the webbrowser
Main command is “.get” which will open the webpage we desire

```
driver.get("http://www.python.org")|
```

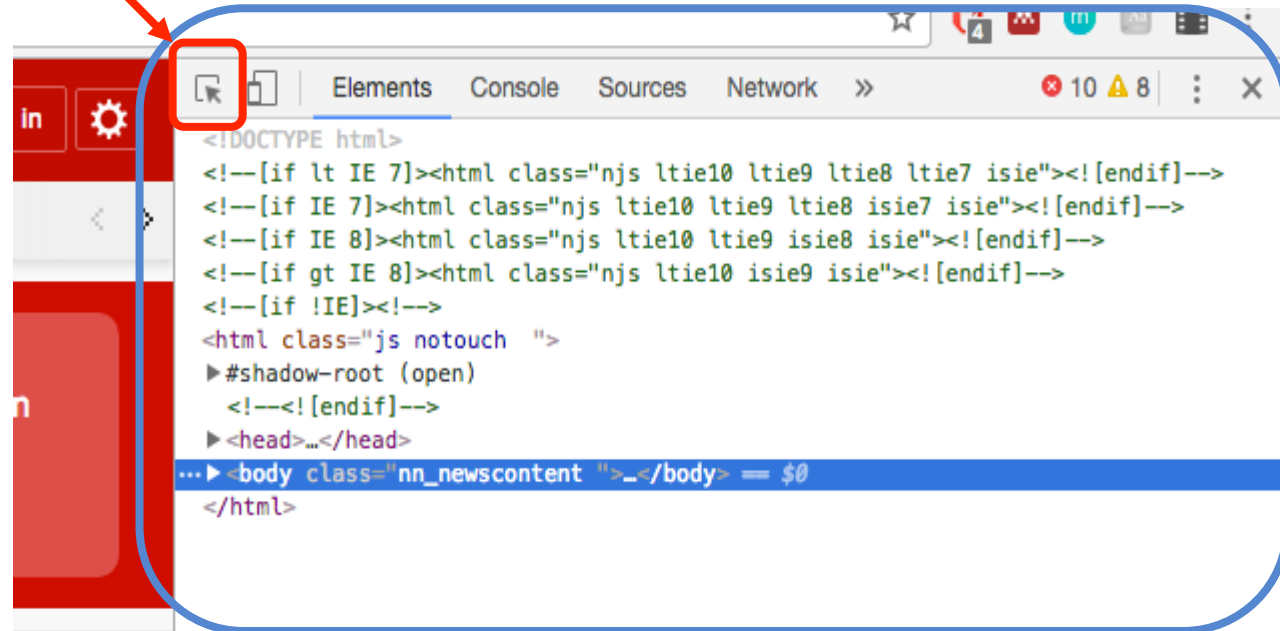


look at the page source

Website <http://www.newsnow.co.uk/h/>

On "Google Chrome" - Context menu -> **inspect**

Try "select an element" **button**



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Catalonia +

- TOP** The Guardian view on Catalonia's referendum: the Spanish state has lost [The Guardian](#) 22:01 Sun, 01 Oct
- TOP** Spain Can Blame Only Itself for Catalonia's Resistance [Bloomberg](#) 09:05
- 90% of those who turned out vote for Catalan independence [B92](#) 10:37
- Catalonia: preliminary results show 90% for independence [ANSAMED.info](#) 10:37

[more ▶](#)

UK Politics +

- TOP** Here we go again: Tories unveil slew of new controls for private rental sector [Letting Agent Today](#) 10:07
- TOP** Philip Hammond blasts Boris Johnson and warns: Nobody is unsackable [PoliticsHome](#) 09:47
- Britain Sets An Example With Its Human Rights Laws - Counter-Extremism Policy Must Be No... [HuffPost \(UK\)](#) 10:45
- Tory Chancellor Philip Hammond says he could see Monarch collapse coming - but it wasn't his... [Mirror.co.uk](#) 10:36

[more ▶](#)

North Korea +

- TOP** China urges caution on North Korea as US supercarrier makes Hong Kong stop [South China Morning Post](#) 09:57
- TOP** Why Donald Trump's insults may back Kim Jong-un into a nuclear-armed corner [South China Morning Post](#) 09:36
- North Korean propaganda leaflets again found in central Seoul [NK News](#) 10:38
- N. Korea slams S. Korea-US defense treaty as plot for aggression [Kuwait News Agency \(KUNA\)](#) 10:37

[more ▶](#)

Conservative Party Conference +

- TOP** Here are the policies announced at the Conservative conference [Chronicle Live](#) 10:05
- TOP** Here we go again: Tories unveil slew of new controls for private rental sector [Letting Agent Today](#) 10:07
- Conservative conference 2017: a 'review' or tweaks to status quo? [Times Higher Education](#) 10:26
- Conservative conference live: Hammond tells Boris Johnson he is sackable [The Guardian](#) 10:15

[more ▶](#)

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get titles by element class or ID

Titles are under class 'hl'

Search/Filter! [magnifying glass icon]

Take a tour Feedback Sign In [gear icon]

ENTERTAINMENT & ARTS LIFESTYLE BUSINESS & FINANCE INDUSTRY SECTORS MY NEWSNOW [left arrow] [right arrow]

however bringing you all

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Jobs - find Jobs | Property | Cars & Vehicles | More...

div.hl | 404 x 33 **shooting** +

- TOP** Las Vegas shooting suspect believed to be local resident *The Independent* 12:16
- TOP** With gunman dead, Las Vegas police make urgent appeal for suspect's companion and 2 vehicles

In the News Now

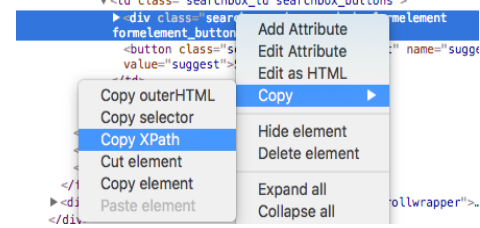
- Jagmeet Singh has become the first non-white politician to lead a major political party in Canada - *New York Times* 12:16
- Experimental implants developed at University College London that were not approved for human use were used outside

```
Elements Console Sources Network >> 10 8 [warning icon] [close icon]
<script>
  nn.ClickCapture.init();
  nn.Header.init();
  nn.SetupHamburgerButton();
</script>
▼ <div id="pwrap">
  ▼ <div class="lyt_wrap">
    ▼ <div class="lyt_cwrap">
      ▼ <div class="lyt_centre">
        ▼ <div id="content" class="lyt_centre_inner">
          ▼ <div class="pfeed pfeed_s_n">
            ▶ <div class="rubrikk">...</div>
            ▼ <div class="boxes_cols">
              ▶ <div class="newsteaser_wrap newsteaser_wrap_odd h-spacing--top">...</div>
              ▼ <div class="newsteaser_wrap newsteaser_wrap_even h-spacing--top">
                ▼ <div class="newsbox newsteaser newsbox_s_ht">
                  ▶ <div class="feed_title">...</div>
                  ▼ <div class="newsbox_inner">
                    ▼ <div class="newsfeed" data-config="{"lengths":[2],"init":0}">
                      ▼ <div class="split split_0">
                        ▼ <div class="split_in">
                          ▼ <div class="hl" data-id="904544363"> == $0
                            ▼ <div class="hl_inner">
                              ▶ <span class="f f UK" c="UK">...</span>
```

'Get all titles under class 'h1'

```
driver.find_elements_by_class_name('h1')
```

Step 13: additional elements



Get the XPATHs of an input field element, and of button to submit the query.
Enter query and push the button

input.q.selected | 257x30

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```
<div id="phead" class="bwrap">
  <div class="phead head_s_n">
    <div class="nn_topbar justify">
      ::before
      <div class="opennav sprite justify--left js"></div>
      <div class="off"></div>
      <div class="searchbox_wrap bg_tween">
        <form class="searchbox" action="/ajax/search-redir" accept-charset="UTF-8">
          <table>
            <tbody>
              <tr>
                <td class="searchbox_td searchbox_field">
                  <input name="qs" class="qshadow" value disabled="disabled">
                  <input name="q" class="q" accesskey="s" value data-nicetip="{"group":"ntsearchbar","css":"callout_inhead"}" autocomplete="off" autocorrect="off" spellcheck="false"> = $0
                </td>
              </tr>
            </tbody>
          </table>
        </form>
      </div>
    </div>
  </div>
</div>
```

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Locate element, and use `.send_keys("anytext")` function
Then `.click()` on another element to execute query

Documentation on Selenium with Python

<https://selenium-python.readthedocs.io/locating-elements.html>