



We are OSINTCurio.us

The image shows the word "facebook" in its characteristic lowercase, sans-serif font. The letters are white and appear to be mounted on or glowing against a dark, vertically-slatted wooden wall. The lighting is dramatic, with the letters being the primary light source, creating a strong contrast with the dark background and casting soft shadows on the wood grain.

facebook

FACEBOOK, OSINT, PRIVACY, SOCIAL MEDIA, TOOLS

The new Facebook Graph Search – part 2

This blogpost is inspired by [@djnemec](#)'s Github gist, which you can find here

<https://gist.github.com/nemec/2ba8afa589032f20e2d6509512381114>.

The next step

In this part, we're talking about combining searches. Just like **in part 1**, we will be translating JSON to Base64. And of course we'll take you through it step by step 😊

What to combine?

Well, you can only combine when you stay in the same category. In part 1 we've discussed the following categories:

- Search/top/
- Search/posts/
- Search/people/
- Search/photos/
- Search/videos/
- Search/pages/
- Search/places/

It's not possible to combine a query from 'photos' together with a query from 'people'. So you'll have to find a query to make which stays within one category (for example, posts you've viewed with your profile in a specific group).

How to start combining

In order to combine the queries, we'll have to put two (or more) JSON lines together. This can be best explained with an example. Let's say we're looking for people named 'John' who live in 'Mountain View, California' and work for 'Google'.

We're going to build the base URL first. In the case of the example, it will look like this:

`facebook.com/search/people/?q=john&epa=FILTERS&filters=`

`'search/people/'` because we want to search for people.

`'?q=john'` because this is our search query in order to find people named 'John'.

So now we need to find the ID's of the location '**Mountain View, California**' and the business page '**Google**'.

Mountain View, California = 108212625870265

Google = 104958162837

*(If you don't know how to find a page ID, please read the **first blog post**)*

Now we take the JSON line for finding people in a specific city and insert the ID of Mountain View:

`{"city": "{ \"name\": \"users_location\", \"args\": \"108212625870265\" }"}`

Second, we take the JSON line for finding people who work at a specific employer and insert the ID of Google:

`{"employer": "{ \"name\": \"users_employer\", \"args\": \"104958162837\" }"}`

Now we need to combine those two lines. In order to combine them, we'll need to remove some curly braces and add a comma. The curly

braces that need to be removed are highlighted and the comma that needs to be inserted is highlighted too:

```
{“city”:{“name”:\“users_location\”,\“args”:\“108212625870265\”}},  
{“employer”:{“name”:\“users_employer\”,\“args”:\“104958162837\”}}
```

The full correct JSON line will be:

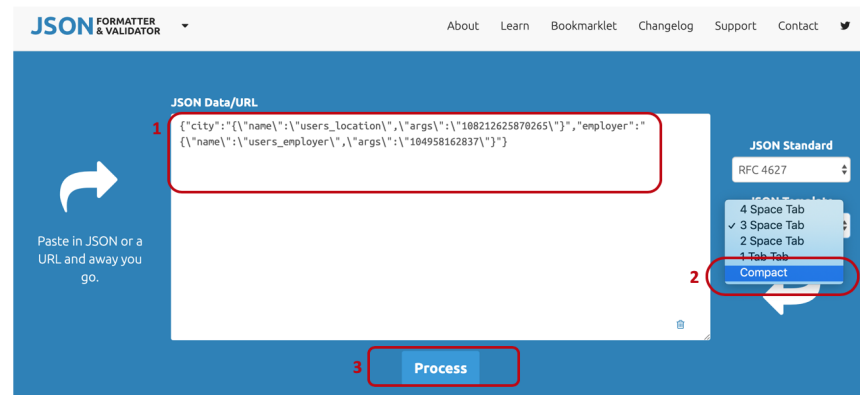
```
{“city”:{“name”:\“users_location\”,\“args”:\“108212625870265\”},“employer”:{“name”:\“users_employer\”,\“args”:\“
```

When trying combining these queries, it’s important to test them.

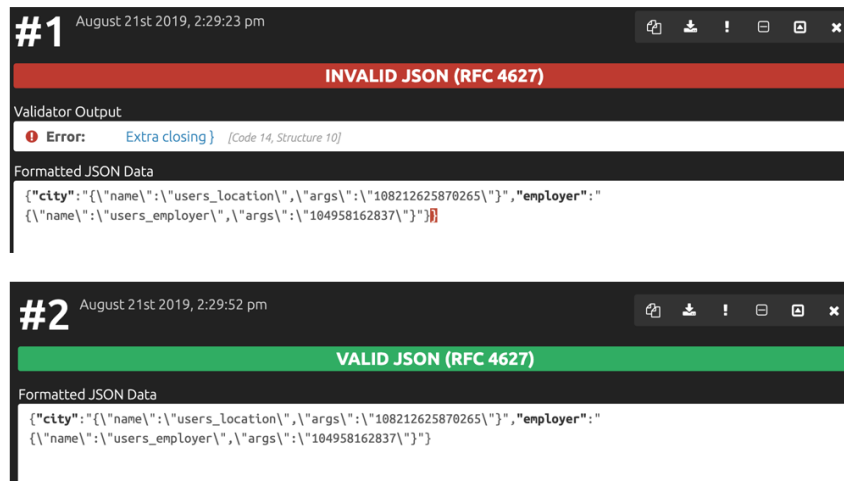
Testing can be done really easily via

<https://jsonformatter.curiousconcept.com/>.

1. Paste the JSON line you’ve created
2. Choose the JSON Template ‘Compact’
3. Hit ‘Process’



If you’ve made a mistake, you’ll see an error and it will include where you’ve made a mistake. Really helpful!



Example of jsonformatter.curiousconcept.com

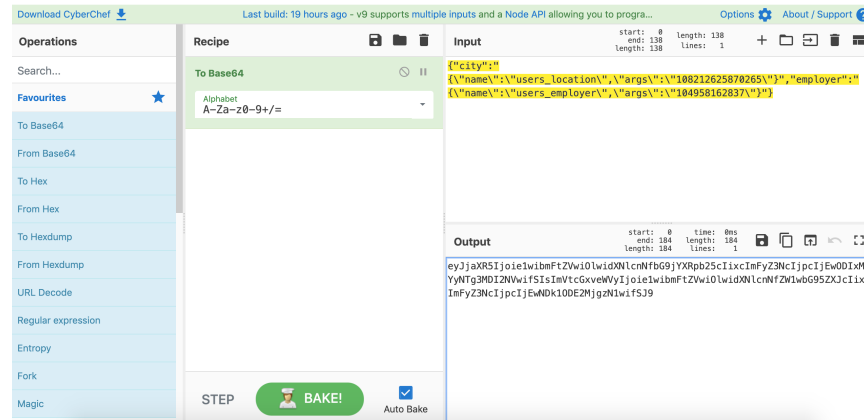
The most common mistake is that the quotations in the JSON line aren't straight. They need to be straight, not slightly tilted.

If you're getting errors while testing your JSON line, make sure to copy and paste the JSON line in a text program like Microsoft Word, select the text and change the font to something like 'Lucinda Console'. Now copy and paste the JSON line and your problem should be fixed.

So now that we've got the right JSON line, we move back to **CyberChef**. We're going to 'bake' the JSON to Base64, just like we did in the first blog.

Our JSON line will now look like this when its translated to Base64:

eyJjaXR5Ijoie1wibmFtZVwiOlwidXNlcnNfbG9jYXRpb25clixcImFyZ3NcIjpcIjEwODIxMjYyNTg3MDI2NVwifSIsImVtcGxveWVy



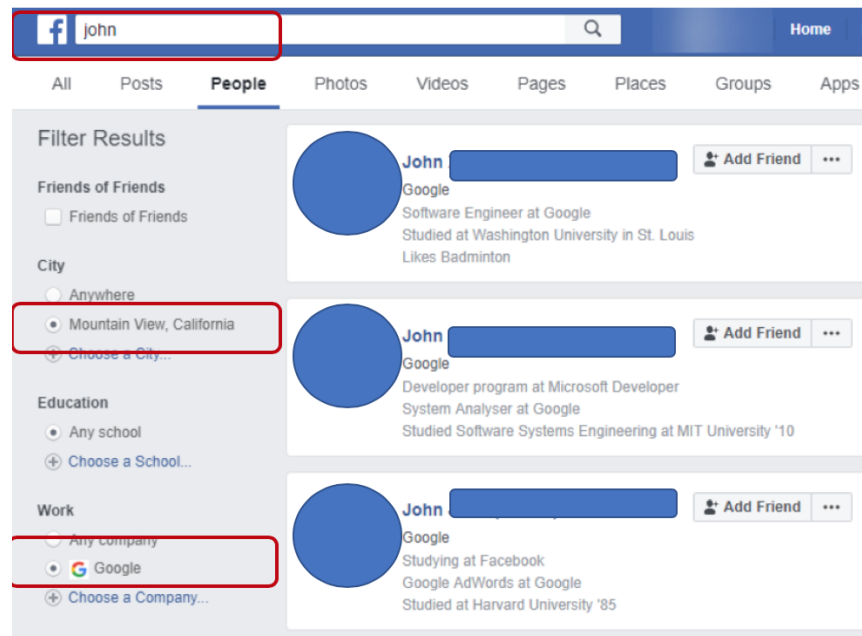
Let's put it together!

Ok, we've created the base URL and we've created a search combining 2 queries. Lets put them together:

[facebook.com/search/people/?](https://facebook.com/search/people/?q=john&epa=FILTERS&filters=eyJjaXR5Ijoie1wibmFtZVwiOlwidXNlcnNfbG9jYXRpb25cIixcImFyZ3NcIjpcIjEwODIxMjYyNTg3MDI2NWwifSI6ImVtcGxveW9yIjoie1wibmFtZVwiOlwidXNlcnNfZW1wb695ZkIicIixcImFyZ3NcIjpcIjEwNDk1ODE2MjgzNiwifSI9)

[q=john&epa=FILTERS&filters=eyJjaXR5Ijoie1wibmFtZVwiOlwidXNlcnNfbG9jYXRpb25cIixcImFyZ3NcIjpcIjEwODIxMjYyNTg3MDI2NWwifSI6ImVtcGxveW9yIjoie1wibmFtZVwiOlwidXNlcnNfZW1wb695ZkIicIixcImFyZ3NcIjpcIjEwNDk1ODE2MjgzNiwifSI9](https://facebook.com/search/people/?q=john&epa=FILTERS&filters=eyJjaXR5Ijoie1wibmFtZVwiOlwidXNlcnNfbG9jYXRpb25cIixcImFyZ3NcIjpcIjEwODIxMjYyNTg3MDI2NWwifSI6ImVtcGxveW9yIjoie1wibmFtZVwiOlwidXNlcnNfZW1wb695ZkIicIixcImFyZ3NcIjpcIjEwNDk1ODE2MjgzNiwifSI9)

Now you see the results for people named 'John', who live in 'Mountain View', who work for 'Google'!



Of course this is an option to filter in the left menu, but if you want to specifically search a page or city, using the page ID number is much more efficient than searching the specific page in the drop down menu when clicking 'Choose a City...'.

Trying queries

After reading part 1 and 2 we'll be able to build your own queries. You'll have to try different queries to figure out which ones work best for you. Even try to put more than 2 JSON lines in a query. Also, don't forget about the search bar! There are some good filtering options in there too!

And if you've paid attention to the way the URL's are built up when using the search bar, you'll notice the Base64 lines in there. You can always try

to reverse the Base64 to JSON (with **CyberChef**) in order to see how Facebook built the query so you can learn from it.

If you're looking for any new queries, check out **Kirby's** website where there is matrix with all kinds of helpful queries you could build. Check it out **here**.

Or if you've found any new interesting queries, feel free to share them in the comments below!

TECHNISETTE

2019-08-22

#BASE64, #FACEBOOK, #GRAPH, #GRAPH SEARCH, #JSON, #OSINT TOOLS, #SOCIAL MEDIA

SHARE THIS:

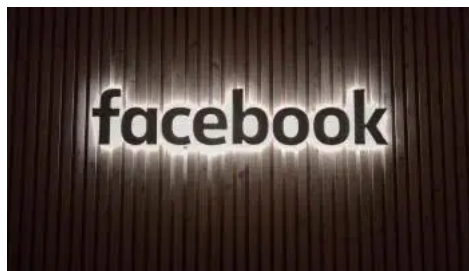


LIKE THIS:



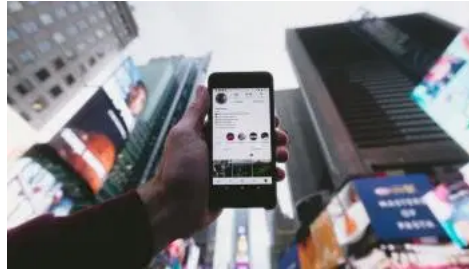
One blogger likes this.

Related



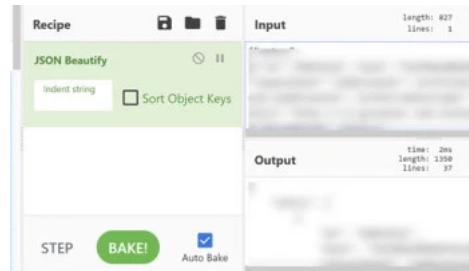
The new Facebook Graph Search - part 1

IN "FACEBOOK"



Searching Instagram - part 2

IN "GEOLOCATION"



JSON and Common Web Encodings Demystified

IN "FORENSICS"

3 thoughts on “The new Facebook Graph Search – part 2”

Nicolas Ntsiabaka

2019-09-19 AT 01:53

Hi, what is the query for tagged photos?

★ Like

REPLY

technisette

2019-09-24 AT 19:19

There isn't a real query for that anymore I'm afraid. But what helps is to searching in the search bar for the name of the person you're interested in > From the categories at the top, choose "Photos" > From the filters in the left menu, choose "Posted by" and select "Choose a source" > Try to choose a source (profile) of someone close to the person of interest. You can then see if there are any photo's related to the person of interest, posted by the source you choose. Hopefully this helps a little!

★ Like

REPLY

daniel

2019-09-28 AT 15:07

what is the query for "friends of my friends who live in" ?

★ Like

REPLY

Leave a Reply

Enter your comment here...

This site uses Akismet to reduce spam. [Learn how your comment data is processed.](#)



...

A WordPress.com Website.