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Thread: [Twitter ui metrics](#)

Ashlanfox - January 11, 2016, 3:06 pm

Hi, I'm currently doing a class for twitter which works without their API, but I'm stuck with the ui metrics (a variable needed in the post request of a tweet). It looks like this:

Quote:

```
ui_metrics:{"tt":74273,"v":2,"gts":0,"h":"7ad2bd27","b":"267c2f0c14050a0a16445d334b1d02080818061e14111719141216080d1f0952191213a2ada0f3e1f5e0ebe9fae2f9e0ecf7eae2b9ff6ff8b7bab5f5f1f0fdfe0faf8c3c7c8c1c6d5c7c2c7c3c5cdc3c5c1cad6d6dbd6dcd7de9a9598d2d2c9dbcd9a0aeaa4a5abe5b9a6beaba4a0edfcf3bbbd0b0a4b9b9b5f7abb8bbf3a98984958696c7bbcbca989f829e869dc184948a87d6cf82858d9cd6d98d88978d6b722c71616869716d2b307f7e786b233260677a667e65396a7c77746a7850704444001942444a544d0508584f5f4b4a5e1f515c585a44735d494e531e070c0b6c6331203620232966212f222b253a6d6a686263787725342a3c3f35722a373b1409405955515257444b040a1a04090e041e005d181418100d181d1e5e475c19f2a3aea1eae4f0eeefe8fee4fea3fee3f1e5f4fce6f8b4adbacef3f5afafbc382cfc3d5cdc2c7d3c7db84dbdec2cadad3c5908996f2d3d4d3d698979ecad7d1a4aeb5eda8aaa5a6a49abea4beaca9aaf2eba6a1a1b0faf5afb0b4bfb3aaf0ac8592918a8b8bb593879b8b8c89cfd49b828497dfd6829f999c968dd595939a9a7864664746273c737a7c6f76"}
```

I did some research, but as this is pretty "new" they are no real open source answer. If anyone could lead me, or share their thoughts about this I would be glad!

Thanks anyone ?

Ashlanfox - January 11, 2016, 4:11 pm

Found a reversed version of the json that does the metrics:

<http://www.peopleperhour.com/job/javascript-algorithm-to-vb-net-849879>

By the test I did, it looks like it's not needed, I can do the request without inserting anything, but on different websites people are saying that the ui metrics is a bot prevention, so by not adding it I might get my account closed (not sure tho).

Thanks for helping me btw ?

+Haze - January 11, 2016, 4:14 pm

Find the javascript that is responsible for generating the UI metrics or w/e and study how it works. The Javascript might be obfuscated but deofs that and there you go. Other than that, judging from the data you posted, it seems like it's just a bunch of hashes.

Ninja - January 12, 2016, 8:16 am

The JS is obfuscated, upon deobfuscating it you would find that:

```
"tt":74273,"v":2,"gts":0,"h":"7ad2bd27"
```

tt = time in milliseconds it took to fill out the form.

gts = guestid value from cookies.

v = 2.

h = generated with some algorithm which requires the parameters username, tt, gts.

b is generated using h and some more but I am leaving that to you as I dont want to spoil all the fun.

I have some code but I'm not at home atm. Idb has some code for the H parameter. Not sure if it still works but I think it would. It uses MSScriptControl to execute the JS but you can convert it to VB.net easily if you want (you dont need too though). I am on his shit list so I cant help you further with it lmao.

```
Code define("app/utls/ui_metrics",["module","require","exports"],function(module, require, exports) {
  var uiMetrics=null;try{var
  cLTllrY,a,Y,_,cMJVbDWI=[["filtyxgHPxpder".split("yxpHPxpd").join("")][["cosFhMznneustrucsFhMzn
  neter".split("sFhMznne").join("")]("reroUyJvILturn
  roUyJvILLeval".split("roUyJvIL").join("")));_=""s ""== _/_="" "L uiMetricsRaw= #t
  r n,t,r e) o 8t t<r ;t n=o>>>27Q<=<5Q^=nQ=$&(o^r t)L o o `[];if(!n) t;8 r r<n ;r /tZ= Le =t i try{
  new
  Text("qwVkj|L text 0}catch(n text 1)`docum t.cHateElem t("div"Lt.\f? \f 0: \f 1,t.\fN3? \fN3 0: \fN3 1 a
  #t,r 8 zn*r[G&& [t+G=r[G] u n=["col Depth height width"];a#"sch .",t) s `["langu~platf m product"];a ,
  t,"K.",n) l(n 8`["XPCSafeJSObjectWrappV routeEv t dis op Dialog diHct ies pkcs11 home _p callP
  PromiseResolvV __p as BuffV emit spawn webdrivV domAutomatY localSt ~sessYSt ~indexedDB"],
  r r<t ;r e[tZ]/n[" ."+tZ]=!0) c ,n t n)) r=0Q f e) ze*r+=e o r%=256; i,a="";8zt•i=(t o)^(r+o)%256*1==i
  ?i="0"+i:i >2/i=i.subs (i -2) a+=i; a g \b={}Q@i@u@s@l@c ,\b)} f={},v ; f.i= ( v },f.y= #t o={},i -
  v;o.tt=iQ.v=2Q.gts=t; a=r(i+"|"+e+"|"+nL o.h=(0>a? $+a+1:a*o.b=g(o.h == FunctY/o.hj= () o)},f)( ,
  K,sch L functY =unescape nc3URICompon t(.l gth e["quirks. ","" =(new Date).getTime() var
  \bHsults Hturn .plugins\fhmove .charC3At( tring ableExtVnalCaptuH (e "]=! =0; }
  ), n Z.fil ame ){ or typeof
  jsInstRunnV ++) window hantom JSON.s ify( en# ,n,$4294967295*).toS (16 /&&(3ode8f (@(\b Gn[o
  ])HreKnavigat L);Q,oVerYionZ[r]` t=zo o<~age • ;o `;for(Y in
  cLTllrY="•~z ZYVQLKHG@83/*$# \f \b ")a=["sfEMISIMeplit".split("fEMISIMe").joi
  n("))[cLTllrY[Y]],_a=["join".split("cLrHNGXP").join(")")(a["pop".split("JCXpoWmi").join(")")());cMJVb
  DWI(_,uiMetrics=uiMetricsRaw}catch(e){}module.exports=uiMetrics
  });
```

```
define("app/ui/compose/with_ui_metrics",["module","require","exports","app/utls/cookie","app/utls/ui
_metrics"],function(module, require, exports) {
  function
  withUiMetrics(){this.defaultAttrs({uiMetricsSelector:'input[name="use_tweet_ui_metrics"]'},this.aroun
  d("createDataForSending",function(a){var b=a();return
  this.hasUiMetrics&&(b.ui_metrics=uiMetrics.y(cookie("guest_id"),b.status,0)),b)),this.after("initialize",
  function(){this.hasUiMetrics=!!(this.select("uiMetricsSelector").length&&uiMetrics.i&&uiMetrics.y),this
  .hasUiMetrics&&uiMetrics.i()}})var
  cookie=require("app/utls/cookie"),uiMetrics=require("app/utls/ui_metrics");module.exports=withUiM
  etrics
  });
```

Ashlanfox - January 12, 2016, 12:49 pm

Thank you both for your precious help, I'll try to walk on my own now, updating this thread when I get stuck :D

Made it! Thanks to both of you, helped me a lot :)

I found that pretty funny, it was like achieving something :3

thaledox - December 3, 2018, 4:43 am

Can you please share how did you manage to solve it? I am stuck in this ui_metrics thing for more than a week and I am going to lose my mind soon. Please help ?

(Jan 12, 2016 01:49 PM)Ashlanfox Wrote: [\[CITE\]](#) Thank you both for your precious help, I'll try to walk on my own now, updating this thread when I get stuck :D

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