# Manifest Data

S-1 Speculative Sensation Lab <u>www.s-1lab.org</u> #manifestdata

#### S-1 Lab Manifest Data Project Team

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> > www.s-1lab.org/projects/manifest-data/

## digital metabolism

Q<sub>1</sub>: Does the digital have its own metabolism?

Q<sub>2</sub>: How is the digital's metabolism implicated in the anthroposphere?

...and how is the human implicated in the digital's metabolism?





Luke Caldwell eative Commons BY-SA 3.0 http://creativecommons.org/licenses/by-sa/3.0/

#### o)/parse\_ip.py to) with the full path

yz 3d-model @ ~/Desktop/tcpflow\_parse.xyz ss data @ ~/Desktop/tcpflow

d = dict((k,int(v.replace('.', ''))) for k,v in kwargs.iterite self.\_\_dict\_\_.update(d)

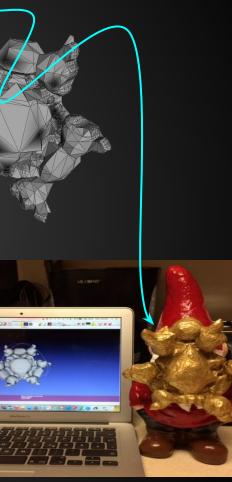
```
def goo_base_dir().
```

Netermine os and path structure

op\_gys = platform system() fop\_gys == "Winkyes" raise Exception("You can't run this on Windows...") base = "/home" if O\_gys == 'Linux' else "/Users" usr = getpass.getug () return os.path.join(wase, usr, 'Desktop')

def parse filenames(files):
 """
 parse timestamp, origin ip address and port, destination ip address
 divide origin ip address by origin port, destination ip address by
 shuffle columns and rejon with new lines
 """
 spl = re.compile(

#### @stargould



#### code manifest

https://bitbucket.org/swibble/manifest-data/

http://s-1lab.org/projects/manifest-data/

- DMG installer for Macs (-> downloads)
- Installation instructions for Linux
- Windows -- sorry, you are left out. :-(

### collecting data

problem 1: how can we access information that approximates what digital services like google and facebook know about us?

- data on these platforms is proprietary and access to information about yourself is highly limited.
- how much information leaks through everyday web usage?
- how can we capture these machinic forms of communication for humanistic purposes?

	7501	212c	5459	a238	e618	49e8	abd0	aee2
HTTP/1.1 200 OK Cache—Control: no—cache, must—revalidate	9406	9695	af95	fdd0	1703	0100	20ff	7ac2
Content-Type: image/gif	823c	10e4	a8c8	9d6a	7e91	46fb	6fce	53c4
Date: Fri, 27 Mar 2015 23:29:57 GMT	0f6c	f2f1	3eb7	739f	22ce	b3e4	ad17	0301
Expires: Fri, 01 Jan 1990 00:00:00 GMT P3P: policyref="https://cts.w55c.net/ct/p3p_policy_ref.xml", CP="UNI	0050	a288	d09d	9bf6	79de	c7bf	838e	a2b8
PUR COM INT STA OTC STP OUR CUR TAIO COR DSP NOI"	982b	9a0c	ad94	221b	147f	7039	7ddf	8158
Pragma: no-cache				1a5c				
Server: PixelTracking/v2.0.15#rel-ec2-master i-8415f179@us-east- 1b@dxedge-app_us-east-1_prod_asg				fc47				
Set-Cookie: wfivefivec=ceZ6A0tbAlj9vqcbKiYh2f4A3UBcpmQL; Domain=.w55c.				e26d				
net; Expires=Mon, 27-Mar-2017 23:29:58 GMT; Path=/				20da				
Content-Length: 42 Connection: keep-alive								
				f528				
GIF89aSOHNUE SOHNUE €NUE NUE NUE NUE NUE ÿÿÿ ! ùEOT SOHNUE NUE NUE NUE , NUE				5317				
NUL NUL SOH NUL SOH NUL @STX SOH DNUL ;HTTP/1.1 302 Found	bcda	019a	a4d5	<b>16aa</b>	8f46	2857	5cce	8849
Cache-Control: no-cache, must-revalidate Date: Fri, 27 Mar 2015 23:29:57 GMT	8c60	50cb	5b54	091b	8ad7	03fe	1703	0100
Expires: Fri, 01 Jan 1990 00:00:00 GMT	20e6	4cf6	542c	<b>bb</b> 98	f77e	5531	60ad	689c
Location: https://cm.g.doubleclick.net/pixel?google_nid=9675309&google	a408	ab65	84fc	eafc	2ee1	3f34	d941	d4f2
<pre>_hm=Y2VaNkEwdGJBbGo5dnFjYktpWWgyZjRBM1VCY3BtUUw%3D&amp;google_cm P3P: policyref="https://cts.w55c.net/ct/p3p_policy_ref.xml", CP="UNI</pre>	ae17	0301	0020	a684	ab72	ae75	59ed	8073
PUR COM INT STA OTC STP OUR CUR TAIO COR DSP NOI"				dcf4				
Pragma: no-cache				1703				
Server: PixelTracking/v2.0.15#rel-ec2-master i-8415f179@us-east-				4476				
<pre>1b@dxedge-app_us-east-1_prod_asg Set-Cookie: wfivefivec=ceZ6A0tbAlj9vqcbKiYh2f4A3UBcpmQL; Domain=.w55c.</pre>								
net; Expires=Mon, 27-Mar-2017 23:29:58 GMT; Path=/				e925				
Content-Length: 0	d383	81b0	9bc0	7915	e9da	778e	5296	d972
Connection: keep-alive	41a9	93f4	114f	7137	28db	03b2	80fa	4721

### tcpflow

network analysis tool that captures the content and metadata associated with every networking call.

- solution: capture data locally as it passes from your computer to remote services.
- like the NSA, we favored a "collect it all" approach
- contents of webpages, emails, images, etc are all collected into the designated folder.

problem 2: how do we turn all of this
information into something meaningful?

 some of this information is legible, while some is encrypted. just looking at content will be very limited.

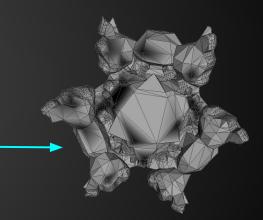
 solution: utilize metadata of networking connections simply because that's easiest to work with and follows standardized formats.

#### Filenames

1411917649T071.065.197.000.52804-192.168.001.140.00548 1411917651T192.168.001.140.00548-071.065.197.000.52804 1411917720T071.065.197.000.52808-192.168.001.140.00548 1411917720T192.168.001.140.00548-071.065.197.000.52808 1411917735T064.233.171.125.05222-071.065.197.000.52814 1411917735T071.065.197.000.52814-064.233.171.125.05222 1411917743T071.065.197.000.55328-172.231.210.179.00080 1411917743T172.231.210.179.00080-071.065.197.000.55328 1411917743T172.231.210.179.00080-071.065.197.000.55328 1411917743T192, 168, 001, 140, 00548-071, 065, 197, 000, 52804 1411917748T071.065.197.000.52804-192.168.001.140.00548 1411917753T050.097.122.002.00143-071.065.197.000.52817 1411917753T174.133.021.068.00143-071.065.197.000.52852 1413999244T071.065.192.222.51506-192.168.001.140.00548 1413999256T071.065.192.222.51495-074.125.022.189.00443 1413999257T071.065.192.222.51537-074.125.196.147.00443 1413999257T074.125.196.147.00443-071.065.192.222.51537 1413999268T004.053.016.143.00443-071.065.192.222.51538 1413999268T071.065.192.222.51538-004.053.016.143.00443 1413999269T023,022,080,236,00080-071,065,192,222,51540 1413999269T023,022,080,236,00080-071,065,192,222,51540 1413999269T023.022.080.236.00080-071.065.192.222.51542 1413999269T023.022.080.236.00080-071.065.192.222.51542 1413999269T071.065.192.222.51539-170.149.168.130.00080 1413999269T071.065.192.222.51540-023.022.080.236.00080 1413999269T071.065.192.222.51541-170.149.168.130.00080 1413999269T071.065.192.222.51542-023.022.080.236.00080 1413999269T170.149.168.130.00080-071.065.192.222.51539 1413999269T170.149.168.130.00080-071.065.192.222.51539 1413999269T170, 149, 168, 130, 00080-071, 065, 192, 222, 51541 1413999270T023.062.006.089.00080-071.065.192.222.51544 1413999270T023.062.006.089.00080-071.065.192.222.51544 1413999270T023.062.006.089.00080-071.065.192.222.51545 1413999270T023.062.006.089.00080-071.065.192.222.51545 1413999270T063.245.217.181.00080-071.065.192.222.51543

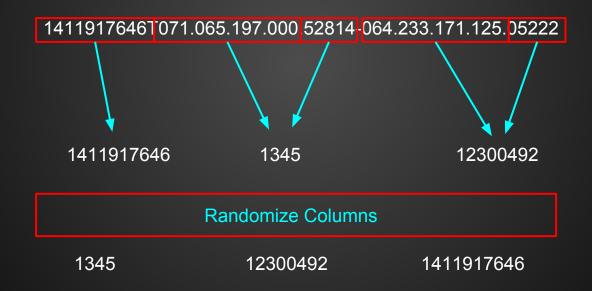
#### .xyz model format

3-D Model

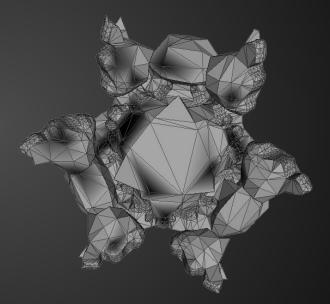




Timestamp | Orig IP / Orig Port | Dest IP / Dest Port



- Use MeshLab to turn xyz coordinate system into a point cloud.
- Create mesh by connecting all the points.
- 3-D print the mesh



## parsing the information (alt)

 Geolocate IP addresses to generate a Google map of network connections.

• <u>S-1 Map gallery</u>



#### Benevolent Spyware for Digital Humanities

- Take tracking and data synthesis into your own hands to establish a more humanistic model for digital engagement.
- Spying on yourself has become harder than corporations spying on you.
  - Encryption hides information from you as much as from third-parties.
  - Asymmetry of control with digital platforms; platforms often obscure as much as they enable.
- Understand how interacting with systems of machinic control can make way for humanistic interventions that establish a more agential relationship with your digital shadow.

# 3d printing





### K+S-Denson\_SculptingData

2 01100101 01101110 01110100 01101001 01100011 01100101 0110011 00101100 00001101 00001010 01110011 01100101 0110010 011002001 01101100 01101101 01101111 01110011 01110100 00100200 01100000 01101100 01101100 00100200 01101111 01 21102211 21101120 01100001 01110011 01110011 21122101 21110211 22101120 00100022 01120001 01102111 2110220 01100100 01101001 01101110 01180001 01110100 01100101 00201101 00201010 01100111 01110010 0110000 100 01 10000 10010 01 01110011 00100000 01110011 01101111 01100011 01101001 01100101 01110100 01111001 01101111 01101001 00000 01 101 10011 00100000 01110011 0 0110111 10010 01110101 01101001 0110010 01100101 01110100 0 0110010 01111001 00100000 0010000 01101001 01110011 0 0110000 01110011 01110100 0 0110010 01100101 01110011 0 0110100 01100110 00100000 10 0010110 0110111 01110010 01 0110011 01100 0010000 01110 11 0110100 10000 01 0010000 10011 11 0111001 1110110 00 0110100 10110 01100101 10 0010000 01101001 00 01101020 11 0010111 000 01100001 00 0110010 01 00100000 00100000 1 0111000 01110101 1 0010000 01110011 11 0010110 01110111 00 0110000 01110010 01 0110111 01110100 11 0110010 01101110 10 0110100 1000110 01110010 10 0110011 01100101 00100000 01 0111001 01101111 01101001 01110011 01101001 01100101 00100000 01110111 01100101 0110010 0110010 01101000 01100101 00100000 01100100 **.** . . 11111 144

@medieninitiativ

101001 01100011 01100001 00101100

#### manifest data // manifest destiny



John Gast's American Progress (1872). "A project home page concretizes an abstract homesteading in the space of possible programs by expressing it as `home' territory in the more spatially-organized realm of the World Wide Web."

 Eric Steven Raymond, "Homesteading the Noosphere" (2000) Manifest Data intervenes on a much more quotidian and non-conscious type of homesteading: a second-order homesteading of the data created during the first-order activity.

"By giving users access to their platforms, Facebook and Twitter" provide "access to a particular means of communication whose use serves their own profit interests" (89).

- Christian Fuchs, *Digital Labor and Karl Marx* (2014)

"Diablo 3: Ultimate Evil Edition feels like the happy conclusion of a two-year public beta, with the initial purchasers on PC bearing much of the grief with the auction house and the slow pace to reach level 60. Those who have held off up to this point will benefit the most... It's just a shame that some newcomers won't appreciate what the early adopters went through to make the fantastic game it is today." (Miguel Concepcion, gamespot.com)

#### a white man's burden?

# Our Mission: To make the world more open and connected





#### #manifestdata