EXHIBIT 18

REDACTED VERSION OF DOCUMENT(S) SOUGHT TO BE SEALED

EXHIBIT II

1	UNITED STATES DISTRICT COURT
2	NORTHERN DISTRICT OF CALIFORNIA
3	MATTHEW CAMPBELL, MICHAEL
4	HURLEY, and DAVID SHADPOUR,
5	on behalf of themselves and
6	all others similarly situated,
7	Plaintiffs,
8	vs. No. 4:13-cv-05996-PJH
9	FACEBOOK, INC.,
10	Defendants.
11	/
12	**HIGHLY CONFIDENTIAL - ATTORNEYS' EYES ONLY**
13	**CONTAINS SOURCE CODE**
14	
15	VIDEOTAPED 30(b)(6) DEPOSITION OF
16	RAY HE
17	Wednesday, October 28, 2015
18	
19	
20	
21	Reported by:
22	COREY W. ANDERSON
23	CSR No. 4096
24	Job No. SF 2173701B
25	PAGES 1 - 114
	Page 1

1	Q. Okay. Can you please point us to the	16:13:26
2	source code that performs that functionality?	16:13:29
3	A. Yes.	16:13:32
4	(Pause)	16:13:32
5	A. So at a high level, the code I have loaded	16:14:08
6	here will the	16:14:11
7	That	16:14:20
8	would be line 54.	16:14:24
9	Q. And is this the source code that says	16:14:39
10		16:14:42
11		16:14:50
12	A. Yes.	16:14:51
13	Q. A few lines below that there is code that	16:14:57
14	?	16:14:59
15	A. Yes.	16:15:01
16	Q. What function does that code perform?	16:15:04
17	A.	16:15:09
18		16:15:14
19		16:15:17
20		16:15:20
21		16:15:23
22	Q. What is a in the context of the	16:15:36
23	answer you just gave?	16:15:38
24	A. A	16:15:44
25		16:15:53
		Page 43

	Indict contibential - Attornets Etes on	
1		16:16:00
2	Q. What did you mean by	16:16:17
3		16:16:18
4	? What does	16:16:22
5	that mean?	16:16:25
6	A. So for instance, you have let's say you	16:16:26
7	share something, say I can see this, but Josh can't,	16:16:32
8	it's a photo. You have made it so only I can see	16:16:39
9	it.	16:16:42
10	Now, if I share it,	16:16:43
11		16:16:47
12		16:16:51
13		16:16:55
14	Q. In section 1 (b) the response states "	16:17:23
15		16:17:28
16	п	16:17:30
17	Do you see that?	16:17:32
18	A. Yes.	16:17:32
19	Q.	16:17:34
20	?	16:17:36
21	A.	16:17:41
22		16:17:44
23		16:17:47
24	Q. Does this code	16:17:56
25		16:18:01
		Page 44

		Inone Contidential - Attornets etes on	
1	Α.	So at the at a high level it's the code	17:55:21
2	on the le	eft.	17:55:23
3	Q.	Okay. And this is which file is this	17:55:24
4	again?		17:55:28
5	Α.	This is	17:55:28
6	Q.	Okay. And what lines are you referring	17:55:33
7	to?		17:55:35
8	Α.		17:55:38
9			17:55:43
10			17:55:51
11			17:55:56
12	Q.	In the context of	17:56:18
13			17:56:26
14		?	17:56:29
15	Α.		17:56:40
16			17:56:43
17			17:56:48
18			17:56:58
19			17:57:02
20	Q.	Can you point to the code that	17:57:06
21			17:57:08
22		?	17:57:13
23	Α.	Yes.	17:57:15
24		(Pause)	17:57:24
25	Α.	So the code I have on the left is code	18:00:30
			Page 83

	moner contributing - Arronners Eres or	, <u> </u>
1	couple of questions talking about	19:11:58
2		19:12:00
3	MR. RUDOLPH: Yes.	19:12:03
4	THE WITNESS: Just want to paint a picture	19:12:04
5	of what actually changed.	19:12:05
6		19:12:07
7		19:12:12
8	,	19:12:16
9		19:12:24
10		19:12:26
11		19:12:31
12	BY MR. RUDOLPH:	19:12:38
13	Q. Okay. Is there anything else?	19:12:39
14	A. That was it.	19:12:41
15	Q. If you can go back to please?	19:12:44
16	A. Yes.	19:12:51
17	Q.	19:13:03
18		19:13:05
19	Do you see that?	19:13:07
20	A. Yes.	19:13:07
21	Q. And you, we discussed that	19:13:08
22		19:13:10
23		19:13:13
24	A. Yes.	19:13:18
25	Q. Okay.	19:13:18
		Page 106

1	I, the undersigned, a Certified Shorthand
2	Reporter of the State of California, do hereby
3	certify:
4	That the foregoing proceedings were taken
5	before me at the time and place herein set forth;
6	that any witnesses in the foregoing proceedings,
7	prior to testifying, were administered an oath; that
8	a record of the proceedings was made by me using
9	machine shorthand which was thereafter transcribed
10	under my direction; that the foregoing transcript is
11	a true record of the testimony given.
12	Further, that if the foregoing pertains to
13	the original transcript of a deposition in a Federal
14	Case, before completion of the proceedings, review
15	of the transcript was not requested.
16	I further certify I am neither financially
17	interested in the action nor a relative or employee
18	of any attorney or any party to this action.
19	IN WITNESS WHEREOF, I have this date
20	subscribed my name.
21	Dated: 10/30/2015
22	P. 110-1
23	Corey W. anderson
24	COREY W. ANDERSON
25	CSR No. 4096
	Page 114

Campbell et al. v. Facebook, Inc. Case No. 13-CV-05996-PJH In the Matter of:

October 28, 2015 Date of deposition:

Ray He Witness:

Reason codes:

.. 2. %

To clarify the record.

To conform to the facts.

To correct transcription errors.

Page	Line	Reads	Should Read	Reason
1				Code
5	20	Q. What is it?	Q. What is it?	3
		A. Ray Sunshine He.	A. Ray Chengchuan He.	
15	19	A. I would estimate between three and –	A. I would estimate between three and – certainly	1
		certainly greater than three, and I would say less,	greater than three, and I would say less, fewer than	
		fewer than ten hours in person.	ten meetings in person.	
16	5	A. I met with Nikki, who is in the room, and	A. I met with Nikki, who is in the room, and	3
		Gina.	Jeana.	
20	15	A. That would be Nikki, Chris, Pryianka, and	A. That would be Nikki, Chris, Priyanka, and	3
		Gina.	Jeana.	
21	14	Mr. Jessen: I just object.	Mr. Jessen: I must object.	3
23	10	Q. List the ones that you know.	Q. List the ones that you know.	3
		A. Yes. Java, Python, C++, C, HaskellR.	A. Yes. Java, Python, C++, C, Haskell.	
23	16	A. CSS, if you consider that coding language,	A. CSS, if you consider that coding language,	3
		which not everyone does. Regular expressions,	which not everyone does. Regular expressions,	
		raw HTML and XML files, shell scripts, batch	raw HTML and XML files, shell scripts, bash	
		scripts.	scripts.	
24		A. Lisp. I mean, it depends on what you	A. I mean, it depends on what you consider	3
		consider Facebook code and depends on the time	Facebook code and depends on the time period in	
		period in question.	question.	

e e	3	3	3	3	3	3	3	3	3	3
	A. It	O. Two lines below that there is code that says ? A. Yes.	A. It would likely be the		 A. In the context of the Q. What's the A. 	THE	Ą.	A.		Q. What's an
	A. It	O. Two lines below that there is code that says A. Yes.	A. It would likely be the r.		A. In the context of theQ. What's theA.	THE WITNESS:	ned within	A.		Q. What's an
0.00	14	24	13	4,6	12, 14, 15	3	20	5	7	12, 14
	32	36	37	38	38	39	40	41	41	41

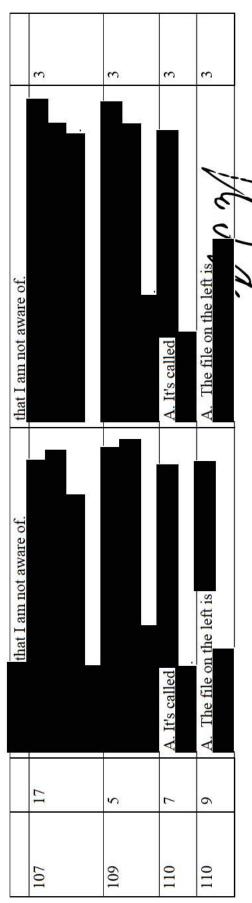
n 3	ight be 3	3	ю П	8	3	3	3	es	8	? 3	3
O. And what sort of data is returned in an?	Q. Is a relevant image something that might be returned with an	O. And is this the source code that says 7 A. Yes.	A. 1	A.	A. This is	A. Yes. That would be line 989 on on the right.	А.	A.	Q. What is A.	Q. Where is the A. The ?	O. Are there
O. And what sort of data is returned in an	Q. Is a relevant image something that might be returned with an	O. And is this the source code that savs? A. Yes.	A.	A.	A. This is	A. Yes. That would be line 989 on on the right.	Α.	A.	Q. What is A.	Q. Where is the A. The	O. Are there
19	7	10	18	22	25	13	21	11-14	15, 16	15, 16	16
41	42	43	43	44	46	48	48	49	49	51	52

A. It's an O. Can you point us to the code that executes the	A.	A.	I believe our site integrity systems use this infrastructure as well as our abuse prevention systems.	There are many factors I haven't listed that could contribute to something not returning a preview.	A. This is in M	A. The first one on line 153 is , line 826.	A. Yes. That would be the same code we previously mentioned line 860.	A. That would be	Q. Can you please point us to the source code that performs this functionality? A. The source code which actually handles the cancel action is on the left.	A. It's	A. So if you look on the left, that's the code which	A. This is a	
A. It's an O. Can you point us to the code that executes the	Y.	A	I believe our site integrity systems use this infrastructure as well as our use prevention systems.	There is many factors I haven't listed that could contribute to something not returning a preview.	A. This is in	A. The first one on line 153 is line 826.	A. Yes. That would be the same code we previously mentioned in line 860.	A. That would be	Q. Can you please point us to the source code that buys this functionality? A. The source code which actually handles the cancel action is on the left.	A. It's	A. So if you look on the left, that's the code	A. This is a O. Where is it located?	K. Where is it recared:
4, 6	9,11	19	-	5	19	25	22	10	17	22	7	9-10	
54	54	54	55	99	56	28	09	62	62	62	65	65	ò

-2	8	37	3								
	e that				ferred to this een a subset of engineral	ferred to this	ferred to this sen a subset of engineral	ferred to this sen a subset of engine a subset of engine and the term	ferred to this een a subset of engine n r with the term	ferred to this sen a subset of engine of the term subset of engine of engin	ferred to this sen a subset of engine sen a subset of engine r with the term eft in ecuted
A. This is the code that		iis		Q. From 2010 to 2012, I'm sorry, who would have referred to this? A. It would have been a subset of the creation of the Q. And what is the	Q. From 2010 to 2012, I's who would have referred? A. It would have been a sthe creation of the Q. And what is the I'm not an expert on	m 2010 to 2012, I's ould have referred? ? could have been a sation of the lawhat is the tan expert on is is	m 2010 to 2012, I's ould have referred? ? could have been a sation of the laboration at the tan expert on is is	From 2010 to 2012, I'm sorry, to would have referred to this a lit would have been a subset of the creation of the anot an expert on This is This is "? Are you familiar with the term "?	ould have referred? ould have been a sation of the lawhat is the t an expert on is is	Q. From 2010 to 2012, I's who would have referred ? A. It would have been a sthe creation of the Q. And what is the I'm not an expert on A. This is A.	Q. From 2010 to 2012, I'm who would have referred to a surface creation of the Q. And what is the I'm not an expert on A. This is A. The first is on the left in line 80. And this code is executed And this code is executed A.
A. This is	(O. Is this	500								
lo that	ie mai	ļ.	ed to this a subset of engineers after								
	A. This is the code that calls the code that		I'm sorry, 2009 to 2012 ed to this a subset of engineers aft		book's	book's	book's	book's he term "	book's he term "	book's he term "	book's he term "
	ode that ca			the	Q. And what is the l'm not an expert on Facebook's	the rt on Faceb	the rt on Faceb	Q. And what is the I'm not an expert on Facebook's A. This A. Are you familiar with the term " A. Yes.	the rt on Faceb	the rt on Faceb	the rt on Faceb.
	his is the co	this	Q. From 2010 to 2012, who would have referr ? A. It would have been the creation of the	And what is the	nd what is to an experi	And what is to not an experimental This	nd what is toot an experional his	nd what is to tan experience and experience bis his his his his his his his his his h	nd what is toot an experience you fami	Q. And what is the I'm not an expert on Fac A. This A. A. The you familiar with I'm A. Yes. The first is on the left in line 80.	O. And what is the l'm not an expert on Facel l'm not an expert on Facel A. This A. This A. Yes. The first is on the left in line 80. And this code is executed and this cod
	A. TI	O. Is this	Q. Frawho v	C. AI	C. Au I'm m	P. An I'm nc A. Th	V. Annormal T. M. T. A.	V. And I'm not I'm not A. This A. This A. The A. This A. The A. T	V. All I A. Titano O. Ali A. Ye	V. And I'm not A. Thi A. Yes. A. Yes. The firs	A. The filine 8 And t
	16	18	1-4	45	25	25	25 4 4 7	25 7 7 2	25 7 7 7 15 15	25 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	25 7 7 7 7 7 8 8 8
1											
	Ţ	<u> </u>	67 1-	3.3						68 25 72 4 74 7 75 2 76 15 78 7	

79	15	A. This is	A. This is	3
62	20	Q. Is the sometimes?	Q. Is the sometimes?	3
80	2	Okay. I think w	Q. Okav. I think we discussed that in the context	3
		of earlier. A. Yes.	of earlier. A. Yes.	
08	5	Q. And the same answer applies with respect to	Q. And the same answer applies with respect to	3
80	21	button made	The Like button made an	3
0.1	10	Server which returned the	Server Winch returned the	2
10	61	Q. Are mose me	A. Yes.	c
		Q – that we discussed earlier?	Q – that we discussed earlier?	
		A. [No response.]	A. Yes.	
83	5	A. This is	A. This is	3
83	10	But in particular where we call in to our	But in particular where we call in to our rendering	3
		rendering code is this	code is this	
84	5	A. This is	A. This is	3
85	4-6	Q. Are you familiar within sights dashboard?	you familiar with insights	3
		A. Yes.	A. Yes.	
		Q. What's your understand what the insights dashboard is?	Q. What's your understanding of what the insights dashboard is?	
		A. I believe it's used well, first of all, it	A. I believe it's used well, first of all, it depends	
		depends on what dashboard we are referring to.	on what dashboard we are referring to.	
98	I	A. I mean, there – within the context of	A. I mean, there - within the context of Facebook,	3
		Facebook, there is many things people might refer to as an insights dashboard and then there	there are many things people might refer to as an insights dashboard, and then there is comething	
		is something else that you know neonle are	else that von know neonle are Facebook	
		Facebook developers might refer to as the	developers might refer to as the insights	
		insights dashboard.	dashboard.	
88	20	A.	A.	3

3	3	3	3	3	3	3	3	3	3	3
The state of the s	Q. And what's the name of this file? A.		A. But the line 254.	A. You can view that as a	A. This is a this is I guess not really a file so much as a	A. "	A.	A. Yes. So we spent the last couple of questions talking about the		I don't want to guess about
Y. Y	Q. And what's the name of this file? A.	d.	A. But the line 254.	A. You can view that as	A. This is a this is I guess not really a file so much as a	Α.	A.	A. Yes. So we spent the last couple of questions talking about the d		I don't want to guess at what
18	23	4	6	24	20	25	14	1	6	7
06	93	96	96	100	102	102	103	106	106	107



, 2015 Date: November

Ray He