## Exhibit 29

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Page 1 1 UNITED STATES DISTRICT COURT 2 SOUTHERN DISTRICT OF NEW YORK 3 - - - - x NETWORK-1 TECHNOLOGIES, INC., : 4 5 Plaintiff, : : 14 Civ. 2396 (PGG) 6 vs. GOOGLE, LLC and YOUTUBE, LLC, : 14 Civ. 9558 (PGG) 7 Defendants. : 8 9 - - - - - x 10 VIRTUAL VIDEOTAPED DEPOSITION OF: TREVOR DARRELL 11 Friday, July 10, 2020 DATE: 12 TIME: 1:11 p.m. EDT 13 LOCATION: Remote Proceedings 14 REPORTED BY: Denise M. Brunet, RPR 15 Reporter/Notary 16 17 18 19 Veritext Legal Solutions 20 1250 Eye Street, N.W., Suite 350 21 Washington, D.C. 20005 22 Job No. CS4168610

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1	Page 102		Page 104
1	aware of that, for example, on page 97 and on	1	SCCS.
2	page 108 and the following two pages. And I also	2	Q And what is include file?
3	cite code on pages 115, 117, and so on and so	3	A It's a file that was used in
4	forth.	4	particular, this is an include file in the C
5	Q All right. Well, let's look at the code	5	programming language, and it is part of the source
6	that you referenced on page 97. Is this code that	6	code for a computer application or a computer
7	appears on page 97 of your report code that was	7	program.
8	compiled into the Clango alpha release?	8	Q And an include file identifies other
9	A I believe it has, and I believe I relied	9	source code files to be included in the
10	on the testimony of the creators of this system	10	definitional and functional sense of the code. Is
11	for that opinion.	11	that fair?
12	Q So you did not have a separate	12	A I actually think it might be slightly
13	compiled or directory of the code that was	13	more fair to reverse it and say an include file is
14	itself actually compiled into the alpha. You're	14	a file that another source code file includes to
15	relying on the testimony that this is code that	15	access routinely defined or included elements.
16	was in the alpha?	16	Q Okay. Was the source code that you
17	A Whatever my opinions are, I believe my	17	excerpt on page 108 of your report included in the
18	basis for them in these paragraphs are the	18	Clango alpha release?
19	testimony from the creator's depositions.	19	A I can't recall which release it was, as I
20	Q And that's it, the testimony, right?	20	sit here today. I would have to refresh my memory
21	A That is it.	21	from the report.
22	Q There was no other document, for example,	22	Q Well, let me direct you to the text you
	Page 103		Page 105
1	that indicated that this particular code on	1	have in paragraph 189. You offer the assertion
2	page 97 of your report was actually part of the	2	that this source code file was created on
3	Clango alpha release, correct?	3	July 26th, 2000. Do you see that?
4	MR. HARDY: Objection to form.	4	A Yes.
5	THE WITNESS: I don't recall seeing	5	Q And that's three weeks after the date you
1		-	Q And that's three weeks after the date you
6	anything like that.	6	say the Clango alpha release took place, right?
6	anything like that. BY MR. LEDAHL:	6 7	- •
_			say the Clango alpha release took place, right?
7	BY MR. LEDAHL:	7	say the Clango alpha release took place, right? A That's correct.
7 8	BY MR. LEDAHL: Q Okay. And you also mention code that you	7 8	<ul><li>say the Clango alpha release took place, right?</li><li>A That's correct.</li><li>Q So unless people at Audible Magic were</li></ul>
7 8 9	BY MR. LEDAHL: Q Okay. And you also mention code that you excerpted starting at page 108 of your report; is	7 8 9	<ul><li>say the Clango alpha release took place, right?</li><li>A That's correct.</li><li>Q So unless people at Audible Magic were engaged in time travel, this file would never have</li></ul>
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7 8 9 10 11	BY MR. LEDAHL: Q Okay. And you also mention code that you excerpted starting at page 108 of your report; is that right? A Yeah. Q Now, this code on page 108 is an include	7 8 9 10 11	<ul><li>say the Clango alpha release took place, right?</li><li>A That's correct.</li><li>Q So unless people at Audible Magic were</li><li>engaged in time travel, this file would never have</li><li>been a part of any alpha release of the Audible</li><li>Magic Clango system, correct?</li></ul>
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7 8 9 10 11 12 13	BY MR. LEDAHL: Q Okay. And you also mention code that you excerpted starting at page 108 of your report; is that right? A Yeah. Q Now, this code on page 108 is an include file?	7 8 9 10 11 12 13	<ul> <li>say the Clango alpha release took place, right?</li> <li>A That's correct.</li> <li>Q So unless people at Audible Magic were</li> <li>engaged in time travel, this file would never have</li> <li>been a part of any alpha release of the Audible</li> <li>Magic Clango system, correct?</li> <li>A No.</li> <li>Q So it's your testimony that this file</li> </ul>
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7 8 9 10 11 12 13 14 15 16 17 18	<ul> <li>BY MR. LEDAHL:</li> <li>Q Okay. And you also mention code that you excerpted starting at page 108 of your report; is that right?</li> <li>A Yeah.</li> <li>Q Now, this code on page 108 is an include file?</li> <li>A Well, I believe it's literally an SCCS file. But it's an SCCS file that represents an underlying include file.</li> <li>Q When you say an SCCS file, what do you mean by that?</li> </ul>	7 8 9 10 11 12 13 14 15 16 17 18	<ul> <li>say the Clango alpha release took place, right?</li> <li>A That's correct.</li> <li>Q So unless people at Audible Magic were</li> <li>engaged in time travel, this file would never have</li> <li>been a part of any alpha release of the Audible</li> <li>Magic Clango system, correct?</li> <li>A No.</li> <li>Q So it's your testimony that this file</li> <li>created on July 26th was included in a release</li> <li>created at least three weeks earlier, according to</li> <li>your testimony?</li> <li>A I believe my testimony is this is</li> </ul>
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	Page 106		Page 108
1	months or years before. And indeed this file was,	1	Q What's the first date that this source
2	according to the testimony, most likely obtained	2	file was in Audible Magic Clango software?
3	from a external open source repository that had	3	A I'm not sure.
4	existed for years and reflected source code and	4	MR. HARDY: Objection to form. Sorry.
5	algorithmic knowledge that one of ordinary skill	5	BY MR. LEDAHL:
6	in the art would be very familiar with it.	6	Q You don't know?
7	So I believe my testimony in	7	A I don't know a specific date. I only
8	paragraph 189 is clear, which is that it's	8	know the testimony of the creators.
9	consistent with the testimony regarding the alpha	9	Q And you wrote that Mr. Wold created
10	release.	10	kd-tree code in July of 2000 in paragraph 189 of
11	Q So as to the functioning of the alpha	11	your report, correct?
12	release, am I understanding correctly that you're	12	A Correct.
13	relying on testimony and that the code that you	13	Q So do you have any basis to suggest that
14	reviewed was not actually the code from that alpha	14	that file was created before July 5th, 2000?
15	release?	15	A Yeah. The file he created I believe
16	MR. HARDY: Objection to form.	16	his testimony is not that he wrote this, but that
17	THE WITNESS: I don't believe I've give	17	he had downloaded it and used it. His testimony
18	an opinion on that one way or the other. It's	18	is that they had a version that was running prior
19	very consistent with the testimony. And the	19	to this. Obviously, there's no evidentiary record
20	testimony was that they incorporated available	20	of a version earlier than this, but that's not
21	implementations of approximate nearest neighbor	21	evidence that it didn't exist before.
22	searching, and that this file is consistent with	22	So I'm relying on the testimony of the
	Page 107		D 100
	1 age 107		Page 109
1	what they did at the time even though the date on	1	Page 109 creators for the dates and I'm relying on the
1 2	-	1 2	-
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2	what they did at the time even though the date on this the date that they have on the record		creators for the dates and I'm relying on the source code to show an example of what they were
23	what they did at the time even though the date on this the date that they have on the record was perhaps it had been moved in fact, if	3	creators for the dates and I'm relying on the source code to show an example of what they were talking about.
2 3 4 5	what they did at the time even though the date on this the date that they have on the record was perhaps it had been moved in fact, if you look at the source code control metadata, it	3 4	creators for the dates and I'm relying on the source code to show an example of what they were talking about. Q So just to be clear, you've seen no
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2 3 4 5 6 7	what they did at the time even though the date on this the date that they have on the record was perhaps it had been moved in fact, if you look at the source code control metadata, it appears that they cleaned up or relabeled or renamed the files. This file is clearly based on an	3 4 5 6 7	creators for the dates and I'm relying on the source code to show an example of what they were talking about. Q So just to be clear, you've seen no evidence of an actual file that implemented a kd-tree structure that's dated earlier than July 26th, 2000; is that correct?
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	what they did at the time even though the date on this the date that they have on the record was perhaps it had been moved in fact, if you look at the source code control metadata, it appears that they cleaned up or relabeled or renamed the files. This file is clearly based on an implementation of algorithms that, you know, date from 1997 to 1993 that were, according to the testimony, not written by Muscle Fish, but they were downloaded and used by Muscle Fish. So this file is just one of many copies that had likely been around the web that you could get. And so the fact that this file has a date on it of July of 2000 is not evidence that they didn't have access to the source code earlier; it's just this happens to be the date that the whatever archive process had produced.	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	creators for the dates and I'm relying on the source code to show an example of what they were talking about. Q So just to be clear, you've seen no evidence of an actual file that implemented a kd-tree structure that's dated earlier than July 26th, 2000; is that correct? A Well, I certainly have in the world. These this software release was well-known and available to anyone who wanted to download it for years prior to 2000. Q Sorry. Let me be clear. You've not seen any evidentiary record that Audible Magic or the Clango system had a file that implemented a kd-tree structure prior to July 26th, 2000, correct? A The evidentiary record that I have seen is that they express the desire and interest to
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	what they did at the time even though the date on this the date that they have on the record was perhaps it had been moved in fact, if you look at the source code control metadata, it appears that they cleaned up or relabeled or renamed the files. This file is clearly based on an implementation of algorithms that, you know, date from 1997 to 1993 that were, according to the testimony, not written by Muscle Fish, but they were downloaded and used by Muscle Fish. So this file is just one of many copies that had likely been around the web that you could get. And so the fact that this file has a date on it of July of 2000 is not evidence that they didn't have access to the source code earlier; it's just this happens to be the date that the whatever archive process had produced. I find the source file useful in showing	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	creators for the dates and I'm relying on the source code to show an example of what they were talking about. Q So just to be clear, you've seen no evidence of an actual file that implemented a kd-tree structure that's dated earlier than July 26th, 2000; is that correct? A Well, I certainly have in the world. These this software release was well-known and available to anyone who wanted to download it for years prior to 2000. Q Sorry. Let me be clear. You've not seen any evidentiary record that Audible Magic or the Clango system had a file that implemented a kd-tree structure prior to July 26th, 2000, correct? A The evidentiary record that I have seen is that they express the desire and interest to find an approximate nearest neighbor search
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	what they did at the time even though the date on this the date that they have on the record was perhaps it had been moved in fact, if you look at the source code control metadata, it appears that they cleaned up or relabeled or renamed the files. This file is clearly based on an implementation of algorithms that, you know, date from 1997 to 1993 that were, according to the testimony, not written by Muscle Fish, but they were downloaded and used by Muscle Fish. So this file is just one of many copies that had likely been around the web that you could get. And so the fact that this file has a date on it of July of 2000 is not evidence that they didn't have access to the source code earlier; it's just this happens to be the date that the whatever archive process had produced. I find the source file useful in showing an illustration of a contemporaneous example of	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	creators for the dates and I'm relying on the source code to show an example of what they were talking about. Q So just to be clear, you've seen no evidence of an actual file that implemented a kd-tree structure that's dated earlier than July 26th, 2000; is that correct? A Well, I certainly have in the world. These this software release was well-known and available to anyone who wanted to download it for years prior to 2000. Q Sorry. Let me be clear. You've not seen any evidentiary record that Audible Magic or the Clango system had a file that implemented a kd-tree structure prior to July 26th, 2000, correct? A The evidentiary record that I have seen is that they express the desire and interest to find an approximate nearest neighbor search algorithm in 1999 and early 2000, well before

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	Page 110		Page 11
1	available for years to anyone who was interested	1	we've been discussing on page 108, that Mr. Wold
2	in this matter.	2	testified that that was in the Clango system in
3	And the specific file that I reproduced	3	July of 2000.
4	on 108 was, I assume, the earliest record they	4	And separately, on page 113, in
5	could have which has a date of July 26th, 2000.	5	paragraph 189, I then proceed to discuss software
6	And that doesn't prove or disprove what dates they	6	related to the Clango August beta application.
7	may have earlier had this file.	7	Q Which file are you talking about in
8	Q And you my question to you, sir, is	8	connection with the August Clango beta application
9	the simple question: You've seen no evidence of	9	that you're discussing on page 113?
10	the existence of this file at Audible Magic	10	A I'm confused by your question, because I
11	earlier than July 26th, 2000, correct?	11	didn't refer to a file in the August beta
12	A I mean, I'd say no. I have seen evidence	12	application.
13	that this file was available to anybody who wanted	13	Q Okay. So you're not discussing an actual
14	on the Internet in the late '90s. And I've seen	14	source code file of the August beta application in
15	evidence in their testimony that they wanted to go	15	paragraph 113; is that fair? Or on page 113.
16	out and get something like that and they got it.	16	A No.
17	So to me, that's evidence.	17	Q Well, what file are you talking about,
18	Q What evidence have you seen that this	18	then?
19	file was implemented in any version of the Clango	19	A Well, in paragraph 196, I say that I have
20	system prior to July 26th, 2000, sir?	20	examined the source code files reflected in
21	A The deposition testimony of the creators	21	Exhibit 18 from the Audible Magic deposition. An
22	of the system.	22	then I reproduced a graphical folder depiction of
	Page 111		Page 11
1	Q And that's all?	1	the set of those files that I'm referring to in
2	A That's quite enough.	2	paragraph 198 excuse me, 196.
3	Q Have you seen evidence that that file	3	Q Now, the modification date of all the
4	that you excerpted on page 108 was incorporated	4	files that you referred to there on page 114, in
5	into a beta release of the Clango system?		
		5	paragraph 196, those are all with the exception
6	A In paragraph 195, I refer to the		paragraph 196, those are all with the exception of the first two files, those are all listing
6 7	A In paragraph 195, I refer to the testimony of Mr. Wold who discusses the source		
6 7 8		6	of the first two files, those are all listing
7	testimony of Mr. Wold who discusses the source	6 7	of the first two files, those are all listing modification dates in 2013, correct?
7 8	testimony of Mr. Wold who discusses the source code of the Clango August beta application.	6 7 8	of the first two files, those are all listing modification dates in 2013, correct? A Yeah.
7 8 9	testimony of Mr. Wold who discusses the source code of the Clango August beta application. Q Is that this file or a different file?	6 7 8 9	of the first two files, those are all listing modification dates in 2013, correct? A Yeah. Q Do you have any understanding of what
7 8 9 10	<ul><li>testimony of Mr. Wold who discusses the source</li><li>code of the Clango August beta application.</li><li>Q Is that this file or a different file?</li><li>A I'm sorry, could you repeat that</li></ul>	6 7 8 9 10	of the first two files, those are all listing modification dates in 2013, correct? A Yeah. Q Do you have any understanding of what modifications were made to those files prior to
7 8 9 10 11	testimony of Mr. Wold who discusses the source code of the Clango August beta application. Q Is that this file or a different file? A I'm sorry, could you repeat that question? I'm not sure I understand what you mean	6 7 8 9 10 11	of the first two files, those are all listing modification dates in 2013, correct? A Yeah. Q Do you have any understanding of what modifications were made to those files prior to that date in 2013?
7 8 9 10 11 12	testimony of Mr. Wold who discusses the source code of the Clango August beta application. Q Is that this file or a different file? A I'm sorry, could you repeat that question? I'm not sure I understand what you mean by "this file."	6 7 8 9 10 11 12	of the first two files, those are all listing modification dates in 2013, correct? A Yeah. Q Do you have any understanding of what modifications were made to those files prior to that date in 2013? A Could you repeat the question?
7 8 9 10 11 12 13	<ul> <li>testimony of Mr. Wold who discusses the source</li> <li>code of the Clango August beta application.</li> <li>Q Is that this file or a different file?</li> <li>A I'm sorry, could you repeat that</li> <li>question? I'm not sure I understand what you mean</li> <li>by "this file."</li> <li>Q Well, we've been talking about a file</li> </ul>	6 7 8 9 10 11 12 13	<ul> <li>of the first two files, those are all listing</li> <li>modification dates in 2013, correct?</li> <li>A Yeah.</li> <li>Q Do you have any understanding of what</li> <li>modifications were made to those files prior to</li> <li>that date in 2013?</li> <li>A Could you repeat the question?</li> <li>Q Sure. The files that are listed on</li> </ul>
7 8 9 10 11 12 13 14	<ul> <li>testimony of Mr. Wold who discusses the source</li> <li>code of the Clango August beta application.</li> <li>Q Is that this file or a different file?</li> <li>A I'm sorry, could you repeat that</li> <li>question? I'm not sure I understand what you mean</li> <li>by "this file."</li> <li>Q Well, we've been talking about a file</li> <li>that you've reproduced, or part of one, on</li> </ul>	6 7 8 9 10 11 12 13 14	of the first two files, those are all listing modification dates in 2013, correct? A Yeah. Q Do you have any understanding of what modifications were made to those files prior to that date in 2013? A Could you repeat the question? Q Sure. The files that are listed on page 114 of your report from this directory all
7 8 9 10 11 12 13 14 15	testimony of Mr. Wold who discusses the source code of the Clango August beta application. Q Is that this file or a different file? A I'm sorry, could you repeat that question? I'm not sure I understand what you mean by "this file." Q Well, we've been talking about a file that you've reproduced, or part of one, on page 108 of your report. And you just mentioned	6 7 8 9 10 11 12 13 14 15	of the first two files, those are all listing modification dates in 2013, correct? A Yeah. Q Do you have any understanding of what modifications were made to those files prior to that date in 2013? A Could you repeat the question? Q Sure. The files that are listed on page 114 of your report from this directory all reflect a modification date in 2013. Do you have
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7 8 9 10 11 12 13 14 15 16 17 18	testimony of Mr. Wold who discusses the source code of the Clango August beta application. Q Is that this file or a different file? A I'm sorry, could you repeat that question? I'm not sure I understand what you mean by "this file." Q Well, we've been talking about a file that you've reproduced, or part of one, on page 108 of your report. And you just mentioned testimony that you referred to from Mr. Wold and discussed in paragraph 195 of your report about the Clango beta release, you say.	6 7 8 9 10 11 12 13 14 15 16 17 18	of the first two files, those are all listing modification dates in 2013, correct? A Yeah. Q Do you have any understanding of what modifications were made to those files prior to that date in 2013? A Could you repeat the question? Q Sure. The files that are listed on page 114 of your report from this directory all reflect a modification date in 2013. Do you have any understanding as to what modifications were made to those files at any time between 2000 and 2013?
7 8 9 10 11 12 13 14 15 16 17 18 19	<ul> <li>testimony of Mr. Wold who discusses the source code of the Clango August beta application.</li> <li>Q Is that this file or a different file?</li> <li>A I'm sorry, could you repeat that question? I'm not sure I understand what you mean by "this file."</li> <li>Q Well, we've been talking about a file that you've reproduced, or part of one, on page 108 of your report. And you just mentioned testimony that you referred to from Mr. Wold and discussed in paragraph 195 of your report about the Clango beta release, you say.</li> <li>Is that testimony about this file that is</li> </ul>	6 7 8 9 10 11 12 13 14 15 16 17 18 19	of the first two files, those are all listing modification dates in 2013, correct? A Yeah. Q Do you have any understanding of what modifications were made to those files prior to that date in 2013? A Could you repeat the question? Q Sure. The files that are listed on page 114 of your report from this directory all reflect a modification date in 2013. Do you have any understanding as to what modifications were made to those files at any time between 2000 and 2013? A My understanding is there were none

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