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18	ORACLE AMERICA, INC.,	Case No. 3:10-cv-03561 WHA
19	Plaintiff,	GOOGLE'S 4/12/12 COPYRIGHT LIABILITY TRIAL BRIEF
20	v.	Dept.: Courtroom 8, 19 th Floor
21	GOOGLE INC.,	Judge: Hon. William Alsup
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22	Defendant.	
22 23	Defendant.	
	Defendant.	
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23 24	Defendant.	
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I.

INTRODUCTION

ARGUMENT

The Court has asked for a "firm yes or no position on whether computer programming 2 languages are copyrightable." Order [Dkt 874] at 1. No, computer programming languages are 3 not copyrightable. Google has never taken any other position. In addition, as requested, Google 4 offers below a summary of some of the evidence it intends to present at trial relating to the 5 copyrightability issues the Court has identified. See Order [Dkt. 865] at 1. 6

- 7 II.
- 8

Α. Computer programming languages are not copyrightable.

The Copyright Act defines a computer program as "a set of statements or instructions to 9 be used directly or indirectly in a computer in order to bring about a certain result." 17 U.S.C. 10 § 101. A computer programming language is thus simply a language one can use to create a set 11 of statements or instructions to be used directly or indirectly in a computer in order to bring about 12 a certain result.¹ Without a computer programming language, the set of statements or instructions 13 cannot be understood by the computer. As such, a computer language is inherently a utilitarian, 14 nonprotectable means by which computers operate. 15

This commonsense approach to the statute makes the very distinction Congress itself 16 drew: the protectable material is the computer program (the set of statements or instructions); the 17 unprotectable material is the method or system (the language). So understood, original computer 18 programs may be protected, but the medium for expression in which they are created is not. 19

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Computer programming languages are systems for expression, or 1. methods of operation for communication.

21 The Copyright Act bars copyright protection for an "idea, procedure, process, system, 22 method of operation, concept, principle, or discovery," even if it is in an "original work of 23 authorship." 17 U.S.C. § 102(b). This is what the Supreme Court meant when it stated that "no 24 one would contend that the copyright of the treatise would give the exclusive right to the art or 25 manufacture described therein." Baker v. Selden, 101 U.S. 99, 102 (1879); see also Publications 26 Guy Steele, an early member of the Java team at Sun, and now an Oracle Software Architect, defines a language as "a vocabulary and rules for what a string of words might mean to a person 27 or a machine that hears them." Guy Steele, Growing a Language (Sun Microsystems, Oct. 1998) ("Steele") at 2, available at http://labs.oracle.com/features/tenyears/volcd/papers/14Steele.pdf. 28

Int'l v. Meredith Corp., 88 F.3d 473, 481 (7th Cir. 1996) ("The recipes at issue here describe a
 procedure by which the reader may produce many dishes featuring Dannon yogurt. As such, they
 are excluded from copyright protection as either a 'procedure, process, [or] system.'") (quoting
 17 U.S.C. § 102(b)).

In the case of computer programs, this means that a given set of statements or instructions
may be protected, but the protection does not extend to the method of operation or system—the
programming language—by which they are understood by the computer. In copyright terms, the
set of statements or instructions is the expression and the language used to make that expression
intelligible to the machine is the method of operation or system. *See* Google 4/3/12 Br. [Dkt.
852] at 6, 14 (explaining that the APIs are a "*system* that can be *used* to express," and that
computer languages are uncopyrightable for the same reason).² In its reply brief, Oracle did

12 not—and could not—dispute this point. See Oracle 4/5/12 Br. [Dkt. 859] at 3-4, 8. Oracle's

13 expert, too, agrees: "Programming languages are the *medium of expression* in the art of computer

14 programming." JOHN C. MITCHELL, CONCEPTS IN PROGRAMMING LANGUAGES (Cambridge Univ.

15 Press, 2003), Trial Ex. 2507 at 3 (emphasis added).

Oracle has no response to the common sense conclusion that a computer language is a

17 || system for expression, except to argue that Section 102(b) must mean something else when it says

18 "system."³ Oracle's own expert, however, has described programming languages as *abstractions*.

- 23 ³ Oracle also argues that a computer language can be "original, text-based, and capable of fixation," and thus that it must be copyrightable. *See* Oracle 4/5/12 Br. [Dkt. 859] at 9. First,
- 25 Section 102(b) bars copyright protection for "original works of authorship" that fall within its 25 enumerated classes of exclusion. *See* 17 U.S.C. § 102(b). Thus, the fact that a system is original, text-based and fixed does not mean that Section 102(b) does not apply.

Second, a language cannot be fixed. Certainly, a *description* of a language (e.g., a specification)
can be fixed. A computer program written *using* the language (e.g., the Gmail application on Android phones) or an *implementation* of a language (e.g., a compiler or interpreter) can be fixed.
But none of those things *is* "the language," any more than a dictionary "is" English, *Das Boot* "is"
German, or a C compiler "is" the C programming language. *See Baker*, 101 U.S. at 102 ("But")

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¹⁹ ² Similarly, fictional languages such as Na'vi and Dothraki cannot be copyrighted. While the film *Avatar* and the television series *Game of Thrones* are copyrightable (including the portions in the fictional Na'vi and Dothraki languages), and while, for example, a dictionary or grammar textbook for either language would be copyrightable, the languages *themselves* are not. Oracle asks why copyright should not protect such languages, *see* Oracle 4/5/12 Br. [Dkt. 859] at 9; the answer is that Section 102(b) says that they are not protected. Moreover, there is no reason to believe that allowing copyright owners to control who can express themselves in these languages would further the aims of copyright law.

See id. at ix ("Programming languages provide the *abstractions*, organizing *principles*, and
 control structures that programmers use to write good programs.") (emphases added).⁴ Thus even
 Oracle's own expert places programming languages firmly on the unprotectable "idea" side of the
 idea/expression dichotomy.

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2. By the same token, the APIs are not copyrightable.

The APIs at issue are integral to and part of the Java programming language. See infra 6 7 Part II.B. But whether that is the case, or whether they can be separated from the Java 8 programming language (as Oracle argues), it is undeniable that these APIs extend the language by 9 increasing its vocabulary. See Steele at 7 ("A true library does not change the rules of meaning 10 for the language; it just adds new words."). Whether the collective set is called "the Java 11 programming language" (adopting Google's view) or perhaps "the Java programming language 12 supercharged" (adopting Oracle's view), it is, to use Guy Steele's definition, "a vocabulary and 13 rules for what a string of words might mean to a person or a machine that hears them." *Steele* at 14 2. The whole of this collective set is thus as uncopyrightable as any programming language. The 15 APIs, as a subset of this uncopyrightable whole, are themselves uncopyrightable. See 17 U.S.C. § 102(b). 16

In its April 5th brief, Oracle argues that the opinion of the ECJ Advocate General suggests
that "interfaces" can be copyrighted, at least in some circumstances. *See* Advocate General's
Opinion, *SAS Institute Inc. v. World Programming Ltd.*, Case C-406/10, ¶ 85 (Nov. 29, 2011).
The opinion, however, uses "interface" in two senses, first referring to a file format (which it
concludes is an uncopyrightable idea) and later referring to specific source code in a computer
program, authored by the developer, that *implements* a file format (which it concludes may be
copyrighted). This is entirely consistent with Google's position.

there is a clear distinction between the book, as such, and the art which it is intended to illustrate.
The mere statement of the proposition is so evident, that it requires hardly any argument to support it."); *cf.* René Magritte, *La trahison des images.*

⁴ Oracle's expert has further described designing a programming language as requiring decisions regarding what *ideas* to leave out. *See id* at 3 ("A single application also helps with one of the most difficult parts of language design: leaving good ideas out."). And he has described studying programming languages as requiring "the study of *conceptual* frameworks for problem solving, software construction, and development." *Id.* at 5 (emphasis added).

The opinion first calls the file format used by SAS for data files a "logic interface." *See id.* ¶¶ 77-78. "Those formats may be regarded as blank forms which are to be filled with the
customer's data by the SAS System and which contain specific locations in which particular
information must be written in order for the system to be read and write the file correctly." *Id.*¶ 79. Blank forms are *per se* uncopyrightable under the Copyright Act. *Baker*, 101 U.S. at 107;
37 C.F.R. § 202.1(c).

7 Next, the opinion discusses how this logic interface—the file format—could be made part 8 of a computer program, explaining that "interface" could also refer to "the elements which create, 9 write and read the format of said SAS data files" which are "expressed in source code in the 10 program." SAS, Case C-406/10, op. at ¶ 82. The opinion concludes that the SAS source code that 11 *implements* the file format could be protected by copyright. See id. ¶¶ 81, 82. The Advocate 12 General opines that under EU law, WPL was nonetheless allowed to decompile this code to 13 reverse engineer the file format, so long as WPL wrote its own code to implement the file format. 14 See id. ¶ 83-90. In short, the opinion is consistent with Google's view, and distinguishes 15 between the *idea* represented by an interface, which is not copyrightable, and the *source code* 16 *implementing* an interface, which may be protected by copyright.

17 That these APIs are an uncopyrightable idea, system or method of operation becomes 18 clearer still when one focuses on precisely what Oracle claims is copyrightable: the structure, 19 selection and organization of the APIs. A set of nonsensical APIs could be created that had 20 exactly the same structure, selection and organization as the Oracle APIs, but that *did* different 21 things. For example, the sqrt() method could always return zero—indeed, every method that 22 returns a number could always return zero, while those that return text could always return the 23 letter a, those that return true or false could always return true, and so on, with a default result 24 being used for every variable type. This set of APIs would serve no useful purpose, but would 25 have *exactly* the same structure, selection and organization as the Oracle APIs. No reasonable 26 jury could ever conclude that the "expression" in this hypothetical set of APIs is substantially 27 similar to the "expression" in the Oracle APIs, notwithstanding the "copied" structure, selection 28 and organization. Thus, Oracle's infringement theory fails unless it accuses not just the structure,

1 selection and organization, but also the *purpose* of the APIs. In other words, Oracle's 2 infringement claim fails unless it is allowed to copyright *ideas*, which it cannot do. 17 U.S.C. 3 § 102(b); see also Anti-Monopoly, Inc. v. General Mills Fun Group, 611 F.2d 296, 300 n.1 (9th 4 Cir. 1979) ("business ideas, such as a game concept, cannot be copyrighted"); Chamberlin v. Uris 5 Sales Corp., 150 F.2d 512, 513 (2d Cir. 1945) ("Precisely, however, because it is the form of 6 expression and not the idea that is copyrightable, we hold that the defendant did not infringe on 7 the plaintiff's statement of the rules. The similarities of the two sets of rules derive from the fact 8 that they were necessarily drawn from the same source."); Whist Club v. Foster, 42 F.2d 782 9 (S.D.N.Y. 1929) ("In the conventional laws or rules of a game, as distinguished from the forms or 10 modes of expression in which they may be stated, there can be no literary property susceptible of 11 copyright."). 12 Indeed, Oracle now—on the eve of trial—candidly states that it claims Google's 13 *implementing source code* is a derivative work of Oracle's English-language descriptions 14 because Google's source code *does the things that the English descriptions describe*. See Oracle 15 4/5/12 Br. [Dkt. 859] at 10 (Oracle is claiming infringement based on "Google's creation of 16 derivative works from the English-language descriptions of the elements of the API 17 specifications"). That is nothing but an assertion that *Google's expression* infringes *Oracle's* 18 *ideas.* Oracle thus stands as an exception to the Supreme Court's statement that "no one would 19 contend that the copyright of the treatise would give the exclusive right to the art or manufacture 20 described therein." Baker, 101 U.S. at 102. 21 While Oracle argues the "extremity" of Google's position, the truly extreme position 22 would be to allow a party to devise a *system* (the Java language APIs), and then enforce 23 copyrights in *descriptions* of that system (Oracle's specifications) and *implementations* 24 (expressions) of that system (Oracle's libraries) to preclude others from practicing the system. 25 Oracle's approach is barred by *Baker v. Selden*: 26 To give to the author of the book an exclusive property in the art described therein, when no examination of its novelty has ever been officially made, would be a

surprise and a fraud upon the public. That is the province of letters-patent, not of copyright. The claim to an invention or discovery of an art or manufacture must

be subjected to the examination of the Patent Office before an exclusive right

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therein can be obtained; and it can only be secured by a patent from the government.

101 U.S. at 102. It is barred by *Mazer v. Stein*: "Unlike a patent, a copyright gives no exclusive right to the art disclosed; protection is given only to the expression of the idea—not the idea itself." 347 U.S. 201, 217 (1954). It is barred by *Sega Enters. Ltd. v. Accolade, Inc.*, under which "functional requirements for compatibility" with a system described by or implemented in a copyrighted work cannot be protected by copyright law. 977 F.2d 1510, 1522 (9th Cir. 1992).

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3. Google has never taken the position that a computer programming language can be copyrighted.

Google has never taken the position, before a court or agency or otherwise, that a
programming language was or is copyrightable. Google does believe that computer source code *implementing* a language can be copyrighted. Google has, for example, created programming
languages called "GO" and "Dart." Google has encouraged others to use these languages for free,
and has also provided an open source license for others to use Google's *source code and object code* that *implements* these languages. This is consistent with the positions Google has taken in
this case.

Google notes that Sun (now known as Oracle America) organized, formed and led the 16 American Committee for Interoperable Systems ("ACIS"),⁵ the chairperson of which was Sun's 17 Deputy General Counsel, Peter M.C. Choy. In a press release after the First Circuit's decision in 18 Lotus v. Borland, Mr. Choy "noted that the decision will make it more difficult for vendors to 19 attempt to lock out competitors and lock in consumers by asserting proprietary rights in certain 20 'building blocks' of software, such as programming languages, program interfaces, and the 21 functional aspects of user interfaces." First Circuit Lotus v. Borland decision supports 22 interoperability, Business Wire, Mar. 10, 1995 (emphasis added).⁶ Mr. Choy was also counsel of 23 record for an ACIS amicus brief filed with the Supreme Court, urging the Court to affirm the First 24 Circuit's judgment that the Lotus menu hierarchy was not copyrightable. ACIS argued that "[t]he 25 ⁵ The organization had the same mailing address as Sun's headquarters. At the time of the *Lotus* 26 case, the ACIS website was located at http://www.sun.com/ACIS/. 27

⁶ *Available via* LEXIS-NEXIS. Sun also distributed this press release by other means. *See, e.g.,* 28 <u>http://www3.wcl.american.edu/cni/9503/4860.html</u>.

1	decisive issue in [the Lotus] case is whether copyright law can protect the rules that enable two
2	elements of a computer system to work together." 1995 WL 728487, at *3. ACIS further argued:
3 4	The 1-2-3 command structure is more than a user interface; it is the interface between the Lotus program and <i>programs—referred to as "macros"</i> —that are written by users at their own considerable expense for execution in connection
5	with the 1-2-3 program. Because <i>the 1-2-3 command structure provides the template for the macros</i> and because the macros are the key to compatibility, the
6	First Circuit, consistent with holdings in other circuits, ruled that those elements necessary to macro compatibility are not protected by copyright.
7	<i>Id.</i> (emphases added). Thus, while not directly taking a position on whether programming
8	languages can be copyrighted, the brief implies that they cannot.
9	B. The APIs are integral to the Java programming language.
10	As Google has previously noted, Java's own books describing the APIs state that they are
11	available "to all Java programs" Trial Ex. 980 at xviii. Those books describe four of the
12	APIs (out of eight that then existed) as "the foundation of the Java language." Id. (back cover).
13	1. Without the APIs, the Java programming language is deaf, dumb and
14	blind.
15	The APIs are so fundamental that without them the Java programming language has no
16	ability to provide any output to the user. Similarly, without the APIs, the Java programming
17	language has no ability to accept input from the user. ⁷ When Mark Reinhold, Oracle's Chief
18	Architect of the Java Platform, was asked why the Java language APIs exist, he testified:
19 20	Well, if there were no APIs, we would only have a language. You would be able to write basic computations that never did any IO, had any communication with the outside world or the underlying platform.
21	You could write—you know, you could do computations on numbers and strings and generate them, but you wouldn't be able to do anything with them.
22	Reinhold 8/5/11 Depo. at 115:10-17. ⁸ He further explained, "But even doing that, even just to
23	manipulate a string requires the string API, so you're—you're, actually, pretty much just limited
24	to numbers, which are pretty boring." Id. at 115:19-22.
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26	⁷ There is one minor exception. A Java language program can be written to accept arguments from the "command line" at runtime. Even this facility, however, is limited to accepting a <i>single set</i> of arguments at the <i>beginning</i> of the program.
27 28	⁸ This testimony is subject to an objection, but only that the testimony is outside the scope of the Rule 30(b)(6) topics for which Dr. Reinhold was designated.
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1	In this respect, the Java language APIs are similar to libraries associated with some older
2	languages in the history of programming. In C, for example, input and output facilities are part of
3	what the designers of the C language called "the standard library, a set of functions that provide
4	input, output, string handling, storage management, mathematical routines, and a variety of other
5	services for C programs." BRIAN W. KERNIGHAN & DENNIS M. RITCHIE, THE C PROGRAMMING
6	LANGUAGE (Prentice Hall, 2d ed., 1988), Trial Ex. 3002 at 151. ⁹ Even the basic "hello, world" ¹⁰
7	C program in their book requires using the standard library in order to display the words "hello,
8	world" to the user. See id. at 6. ¹¹ Similarly, Oracle's "hello, world" program in the Java
9	programming language includes the following source code:
10	System.out.println("Hello World!"); ¹²
11	"System" refers to a class that is part of the java.lang API package, and "out" is a field defined in
12	the System class. The System class defines the "out" field as belonging to the "PrintStream"
13	class, which is part of the java.io API package. Thus, even implementing this most basic of
14	programs in the Java programming language requires using two of the accused APIs.
15	2. The APIs are fundamental to the Java programming language.
16	In its April 5th brief, Oracle conceded that the Java language specification requires the
17	defineClass() method from the ClassLoader class in the java.lang package. See Oracle 4/5/12 Br.
18	[Dkt. 859] at 7. In J2SE 5.0, the defineClass() method is an "overloaded" method; there are four
19	versions of the defineClass() method, the fourth of which has the following method declaration:
20	protected Class defineClass(String name, ByteBuffer b, ProtectionDomain
21	protection Domain)
22	$\frac{9}{10}$ The "Standard Template Library" is a similar library that has been incorporated into the
23	standard C++ specification. ¹⁰ The authors explain that a "hello, world" program—a program that prints the words "hello,
24	world"—is typically the first program a developer writes when learning a language. <i>See id.</i> at 5.
25	not part of the C language itself " <i>Id.</i> 151. Even the basic "hello, world" C program they
26	introduce, however, requires the standard library. All that is meant by their distinction between the "language" and the library is that "higher-level mechanisms must be provided in explicitly-
27	called functions." <i>Id.</i> at 2. That is, they require APIs. Notably, the authors discuss the C standard library as part of their book about the "C programming language."
28	¹² See <u>http://docs.oracle.com/javase/tutorial/getStarted/application/index.html</u> . 8
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As indicated in the parentheses, the method accepts three arguments, of types "String," "ByteBuffer" and "ProtectionDomain." String, ByteBuffer and ProtectionDomain are classes

defined, respectively, in the java.lang, java.nio and java.security APIs. Implementing this *single example* of a *single required class* thus requires implementing elements of *three* of the 37 APIs.¹³

5 This is only a single example—a single example that *Oracle* chose to highlight. Due to 6 the interdependencies between classes in the APIs, expressly requiring one element often will 7 necessarily require many others, just as the defineClass() method implicates the String, ByteBuffer and ProtectionDomain classes from java.lang, java.nio¹⁴ and java.security. Based on 8 9 the classes expressly required by the Java language specification and interdependencies in the 10 APIs, thousands of elements from the accused APIs are required in order to implement the Java programming language.¹⁵ In fact, the first edition of the Java language specification devotes over 11 12 300 pages to documentation for the java.lang, java.io and java.net packages. See Trial Ex. 4027 13 at 455-765. The documentation of the APIs was removed from later editions of the Java language specification only for space reasons. See Trial Ex. 984 at xxvi ("The specifications of the 14 15 libraries are now far too large to fit into this volume, and they continue to evolve. Consequently, 16 API specifications have been removed from this book.").

¹⁵ Oracle argues that when the Java language specification refers to APIs that are fully defined
 elsewhere, that means that the referenced definitions are not part of the language. *See* Oracle
 4/12/12 Br. [Dkt 859] at 7. This is backwards. When the Java language specification "does not

provide a complete specification" but refers the reader to the APIs for details, *see* Trial Ex. 984 at
6, the only fair conclusion is that the language specification is incorporating material by reference
from the API specifications.

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¹³ In its April 5th brief, Oracle also suggests that one could implement the defineClass() method *without* implementing the rest of the ClassLoader class. *See* Oracle 4/5/12 Br. [Dkt. 859] at 7.
Oracle has repeatedly claimed that it is being irreparably harmed by alleged "fragmentation" because Google did not fully implement *all* of the J2SE API packages. Here, however, it appears to argue that to implement the free and open Java programming language, one should implement only *part* of the APIs. To the extent that Android "fragments" Java at all—and witnesses at trial will dispute this point—the approach Oracle appears to suggest would "fragment" Java far more. Further, the evidence at trial will show that Java, and particularly Java ME, was "fragmented"

¹⁴ Oracle argues that because some of the accused packages were not part of the initial release of Java, they cannot be fundamental or integral to the Java programming language. Languages, however, are not static. *See* Trial Ex. 984 at xxv ("This specification defines the language as it exists today. The language is likely to continue to evolve."); *Steele* at 5 ("I now think that I, as a language designer who helps out with the design of the Java programming language, need to ask not 'Should the Java programming language grow?' but 'How should the Java programming language grow?'").

1	In addition, witnesses at trial will testify that developers expect the APIs to be available
2	when they program in the Java programming language, that the APIs are routinely taught in
3	beginning courses regarding use of the language, and that no developer can credibly claim to be
4	proficient in the Java programming language unless he or she knows the APIs. And, in addition
5	to statements highlighted in prior briefs, Sun also stated, for example, that the java.lang API
6	"provides the classes and interfaces that form the core of the Java language and the Java Virtual
7	Machine," and that several objects defined in java.lang are "closely intertwined with the Java
8	language definition." Trial Ex. 980 at xix. Oracle's expert has testified that the Java
9	programming language cannot be implemented without including at least some of the APIs.
10	Indeed, Sun described the Java programming language as follows:
11	<i>The Java programming language</i> is a general-purpose concurrent class-based object-oriented programming language, specifically designed to have as few
12	implementation dependencies as possible. It allows application developers to write a program once and then be able to run it everywhere on the Internet.
13	Trial Ex. 984 at xxi (emphasis added). Because any useful program in the Java programming
14	language requires the APIs, "the Java programming language" only allows a developer to write a
15	program once and run it everywhere if the "language" is understood to include the APIs.
16	III. CONCLUSION
17	Computer programming languages are not copyrightable, and neither are Oracle's APIs.
18	Oracle accuses Google of infringement for <i>doing</i> what the Oracle API specifications <i>describe</i> .
19	That is a classic attempt to improperly assert copyright over an <i>idea</i> rather than <i>expression</i> . The
20	Court should hold that the structure, selection and organization of the APIs are uncopyrightable.
21	Dated: April 12, 2012 KEKER & VAN NEST LLP
22	/s/ Robert A. Van Nest
23	By: ROBERT A. VAN NEST
24	Attorneys for Defendant GOOGLE INC.
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	GOOGLE'S 4/12/12 COPYRIGHT LIABILITY TRIAL BRIEF Case No. 3:10-CV-03561 WHA