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United States Court of Appeals,
Second Circuit.UNITED STATES of America, Appellee,
v.
Sergey ALEYNIKOV, Defendant–Appellant.Docket No. 11–1126. | Argued: Feb.
16, 2012. | Decided: April 11, 2012.**Synopsis**

Background: Defendant was convicted in the United States District Court for the Southern District of New York, Cote, J., of stealing and transferring proprietary computer source code of his employer's high frequency trading system in violation of National Stolen Property Act (NSPA) and Economic Espionage Act (EEA), after the court denied defendant's motion to dismiss in part, [785 F.Supp.2d 46](#). Defendant appealed.

Holdings: The Court of Appeals, [Dennis Jacobs](#), Chief Circuit Judge, held that:

[1] computer source code did not constitute stolen “goods,” “wares,” or “merchandise” within meaning of NSPA and [2] defendant's theft of source code did not violate EEA.

Reversed.

[Calabresi, J.](#), filed concurring opinion.

West Headnotes (13)

[1] Indictment and Information

🔑 [Applicability of Rules of Pleading in General](#)

Since federal crimes are solely creatures of statute, a federal indictment can be challenged on the ground that it fails to allege a crime within the terms of the applicable statute.

[1 Cases that cite this headnote](#)

[2] Criminal Law

🔑 [Review De Novo](#)

The sufficiency of an indictment and the interpretation of a federal statute are both matters of law that are reviewed de novo.

[1 Cases that cite this headnote](#)

[3] Statutes

🔑 [Meaning of Language](#)

Statutes

🔑 [Words Used](#)

Statutory construction must begin with the language employed by Congress and the assumption that the ordinary meaning of that language accurately expresses the legislative purpose.

[4] Statutes

🔑 [Penal Statutes](#)

Due respect for the prerogatives of Congress in defining federal crimes prompts restraint in this area, where courts typically find a narrow interpretation appropriate.

[5] Robbery

🔑 [Property Subject of Robbery and Ownership and Possession Thereof](#)

Source code that defendant uploaded to server in Germany, then downloaded to his computer devices in New Jersey, and later transferred to Illinois, did not constitute stolen “goods, wares, or merchandise” within meaning of National Stolen Property Act (NSPA), since computer program was intangible intellectual property and NSPA did not criminalize theft of intangible things. [18 U.S.C.A. §§ 1030, 1832\(a\), 2314](#).

[6] Robbery

🔑 [Property Subject of Robbery and Ownership and Possession Thereof](#)

Under the National Stolen Property Act (NSPA), the government is required to identify a predicate good, ware, merchandise, security, or money that has been stolen. [18 U.S.C.A. § 2314](#).

[7] Robbery

🔑 [Property Subject of Robbery and Ownership and Possession Thereof](#)

The later storage of intangible property on a tangible medium does not transform the intangible property into a stolen good under the National Stolen Property Act (NSPA). 18 U.S.C.A. § 2314.

[8] Larceny

🔑 [Property Subject of Larceny](#)

Employer's high frequency trading system (HFT) system had not been “produced for or placed in” interstate or foreign commerce, and thus defendant's theft of source code relating to that system by uploading source code to server in Germany without authorization, downloading it to his computer devices in New Jersey, and later transferring it to Illinois, did not violate Economic Espionage Act (EEA), since system had not been designed to enter or pass in commerce, or to make something that did; employer did not have any intention of selling its HFT system or licensing it to anyone and it went to great lengths to maintain secrecy of its system. 18 U.S.C.A. § 1832.

[9] Statutes

🔑 [Other Matters](#)

Where Congress includes particular language in one section of a statute but omits it in another section of the same Act, it is generally presumed that Congress acts intentionally and purposely in the disparate inclusion or exclusion.

[1 Cases that cite this headnote](#)

[10] Statutes

🔑 [Context and Related Clauses](#)

The words of a statute must be read in their context and with a view to their place in the overall statutory scheme.

[11] Statutes

🔑 [Giving Effect to Entire Statute](#)

A statute should be construed so that effect is given to all its provisions, so that no part will be inoperative or superfluous, void or insignificant.

[12] Statutes

🔑 [Giving Effect to Entire Statute](#)

Statutes

🔑 [Penal Statutes](#)

Judges should hesitate to treat statutory terms in any setting as surplusage, and resistance should be heightened when the words describe an element of a criminal offense.

[13] Statutes

🔑 [Penal Statutes](#)

Ambiguity concerning the ambit of criminal statutes should be resolved in favor of lenity; when choice has to be made between two readings of what conduct Congress has made a crime, it is appropriate, before a court chooses the harsher alternative, to require that Congress should have spoken in language that is clear and definite.

Sergey Aleynikov appeals from his conviction, following a jury trial, for stealing and transferring proprietary computer source code of his employer's high frequency trading system in violation of the National Stolen Property Act, 18 U.S.C. § 2314, and the Economic Espionage Act of 1996, 18 U.S.C. § 1832. On appeal, defendant argues, *inter alia*, that his conduct did not constitute an offense under either statute. He argues that: [1] the source code was not a “stolen” “good” within the meaning of the National Stolen Property Act, and [2] the source code was not “related” to a product “produced for or placed in interstate or foreign commerce” within the meaning of the Economic Espionage Act. The judgment of the district court is reversed. Judge [Calabresi](#) concurs in the opinion and has filed an additional concurring opinion.

Attorneys and Law Firms

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Before JACOBS, Chief Judge, CALABRESI and POOLER, Circuit Judges.

Opinion

DENNIS JACOBS, Chief Judge:

*1 Sergey Aleynikov was convicted, following a jury trial in the United States District Court for the Southern District of New York (Cote, J.), of stealing and transferring some of the proprietary computer source code used in his employer's high frequency trading system, in violation of the National Stolen Property Act, 18 U.S.C. § 2314 (the "NSPA"), and the Economic Espionage Act of 1996, 18 U.S.C. § 1832 (the "EEA"). On appeal, Aleynikov argues, *inter alia*, that his conduct did not constitute an offense under either statute. He argues that: [1] the source code was not a "stolen" "good" within the meaning of the NSPA, and [2] the source code was not "related to or included in a product that is produced for or placed in interstate or foreign commerce" within the meaning of the EEA. We agree, and reverse the judgment of the district court.

BACKGROUND

Sergey Aleynikov, a computer programmer, was employed by Goldman Sachs & Co. ("Goldman") from May 2007 through June 2009, developing computer source code for the company's proprietary high-frequency trading ("HFT") system. An HFT system is a mechanism for making large volumes of trades in securities and commodities based on trading decisions effected in fractions of a second. Trades are executed on the basis of algorithms that incorporate rapid market developments and data from past trades. The computer programs used to operate Goldman's HFT system are of three kinds: [1] market connectivity programs that process realtime market data and execute trades; [2] programs that use algorithms to determine which trades to make; and [3] infrastructure programs that facilitate the flow of information throughout the trading system and monitor the system's performance. Aleynikov's work focused on developing code for this last category of infrastructure programs in Goldman's HFT system. High frequency trading is a competitive business that depends in large part on the

speed with which information can be processed to seize fleeting market opportunities. Goldman closely guards the secrecy of each component of the system, and does not license the system to anyone. Goldman's confidentiality policies bound Aleynikov to keep in strict confidence all the firm's proprietary information, including any intellectual property created by Aleynikov. He was barred as well from taking it or using it when his employment ended.

By 2009, Aleynikov was earning \$400,000, the highest-paid of the twenty-five programmers in his group. In April 2009, he accepted an offer to become an Executive Vice President at Teza Technologies LLC, a Chicago-based startup that was looking to develop its own HFT system. Aleynikov was hired, at over \$1 million a year, to develop the market connectivity and infrastructure components of Teza's HFT system. Teza's founder (a former head of HFT at Chicago-based hedge fund Citadel Investment Group) emailed Aleynikov (and several other employees) in late May, conveying his expectation that they would develop a functional trading system within six months. It usually takes years for a team of programmers to develop an HFT system from scratch.

*2 Aleynikov's last day at Goldman was June 5, 2009. At approximately 5:20 p.m., just before his going-away party, Aleynikov encrypted and uploaded to a server in Germany more than 500,000 lines of source code for Goldman's HFT system, including code for a substantial part of the infrastructure, and some of the algorithms and market data connectivity programs.¹ Some of the code pertained to programs that could operate independently of the rest of the Goldman system and could be integrated into a competitor's system. After uploading the source code, Aleynikov deleted the encryption program as well as the history of his computer commands. When he returned to his home in New Jersey, Aleynikov downloaded the source code from the server in Germany to his home computer, and copied some of the files to other computer devices he owned.

On July 2, 2009, Aleynikov flew from New Jersey to Chicago to attend meetings at Teza. He brought with him a flash drive and a laptop containing portions of the Goldman source code. When Aleynikov flew back the following day, he was arrested by the FBI at Newark Liberty International Airport.

The indictment charged him with violating the EEA by downloading a trade secret "that is related to or included in a product that is produced for or placed in interstate or foreign commerce," with the intent to convert such trade secret and to injure its owner, to the economic benefit of anyone other than

the owner, *see* 18 U.S.C. § 1832(a) (Count One); and with violating the NSPA, which makes it a crime to “transport[], transmit[], or transfer[] in interstate or foreign commerce any goods, wares, merchandise, securities or money, of the value of \$5,000 or more, knowing the same to have been stolen, converted or taken by fraud,” 18 U.S.C. § 2314 (Count Two). A third count charged him with unauthorized computer access and exceeding authorized access in violation of the Computer Fraud and Abuse Act, 18 U.S.C. § 1030.

Aleynikov moved to dismiss the indictment for failure to state an offense. *See* Fed.R.Crim.P. 12(b)(3)(B). The district court dismissed Count Three of the indictment but otherwise denied Aleynikov's motion. *United States v. Aleynikov*, 737 F.Supp.2d 173 (S.D.N.Y.2010).

As to Count One, the district court concluded: [1] the stolen source code is a trade secret; [2] the HFT system constitutes a “product” to which the source code relates because the system was developed and modified through the labor of Goldman's computer programmers; and [3] the HFT system was “produced for” interstate commerce because it facilitates the rapid execution of trades on financial markets such as the New York Stock Exchange and NASDAQ. *Id.* at 177–79. The district court reasoned that the whole purpose of the HFT system was “to engage in interstate and foreign commerce.” *Id.* at 179.

As to Count Two, the court held that the source code for Goldman's HFT system constitutes “goods” that were “stolen” within the meaning of the NSPA because, though source code is intangible, it “contains highly confidential trade secrets related to the Trading System” that “would be valuable for any firm seeking to launch, or enhance, a high-frequency trading business.” *Id.* at 187.

*3 Count Three was dismissed on the ground that Aleynikov was authorized to access the Goldman computer and did not exceed the scope of his authorization, and that authorized use of a computer in a manner that misappropriates information is not an offense under the Computer Fraud and Abuse Act. *Id.* at 192–94.

The jury convicted Aleynikov on Counts One and Two. He was sentenced to 97 months of imprisonment followed by a three-year term of supervised release, and was ordered to pay a \$12,500 fine. Bail pending appeal was denied because Aleynikov, a dual citizen of the United States and Russia, was feared to be a flight risk.

Aleynikov appealed his conviction and sentence, arguing, among other things, that the district court erred in denying his motion to dismiss the indictment in its entirety. The Government did not appeal the dismissal of Count Three of the indictment.

On February 17, 2012, following oral argument, we issued a short order reversing Aleynikov's convictions on both counts, and indicated that an opinion would follow.

DISCUSSION

On appeal, Aleynikov renews his challenge to the sufficiency of the indictment on both Counts One and Two.² As to Count One, he argues that the source code is not “related to or included in a product that is produced for or placed in interstate or foreign commerce” within the meaning of the EEA. As to Count Two, Aleynikov argues that the source code—as purely intangible property—is not a “good” that was “stolen” within the meaning of the NSPA.

[1] [2] Aleynikov's challenge requires us to determine the scope of two federal criminal statutes. Since federal crimes are “solely creatures of statute,” *Dowling v. United States*, 473 U.S. 207, 213, 105 S.Ct. 3127, 87 L.Ed.2d 152 (1985) (internal quotation marks omitted), a federal indictment can be challenged on the ground that it fails to allege a crime within the terms of the applicable statute. *See United States v. Pirro*, 212 F.3d 86, 91–92 (2d Cir.2000).³ The sufficiency of an indictment and the interpretation of a federal statute are both matters of law that we review *de novo*. *See Fiero v. Fin. Indus. Regulatory Auth., Inc.*, 660 F.3d 569, 573 (2d Cir.2011); *Pirro*, 212 F.3d at 92.

[3] [4] Statutory construction “must begin with the language employed by Congress and the assumption that the ordinary meaning of that language accurately expresses the legislative purpose.” *United States v. Albertini*, 472 U.S. 675, 680, 105 S.Ct. 2897, 86 L.Ed.2d 536 (1985) (quoting *Park 'N Fly, Inc. v. Dollar Park & Fly, Inc.*, 469 U.S. 189, 194, 105 S.Ct. 658, 83 L.Ed.2d 582 (1985)). “Due respect for the prerogatives of Congress in defining federal crimes prompts restraint in this area, where we typically find a narrow interpretation appropriate.” *Dowling*, 473 U.S. at 213 (internal quotation marks omitted).

We conclude that Aleynikov's conduct did not constitute an offense under either the NSPA or the EEA, and that the indictment was therefore legally insufficient. We consider the

statutes in the order they were briefed: the NSPA first, the EEA second.

I

*4 [5] The NSPA makes it a crime to “transport[], transmit[], or transfer[] in interstate or foreign commerce any goods, wares, merchandise, securities or money, of the value of \$5,000 or more, knowing the same to have been stolen, converted or taken by fraud.” 18 U.S.C. § 2314. The statute does not define the terms “goods,” “wares,” or “merchandise.” We have held that they provide “a general and comprehensive designation of such personal property or chattels as are ordinarily a subject of commerce.” *In re Vericker*, 446 F.2d 244, 248 (2d Cir.1971) (Friendly, C.J.) (quoting *United States v. Seagraves*, 265 F.2d 876, 880(3d Cir.1959)). The decisive question is whether the source code that Aleynikov uploaded to a server in Germany, then downloaded to his computer devices in New Jersey, and later transferred to Illinois, constituted stolen “goods,” “wares,” or “merchandise” within the meaning of the NSPA. Based on the substantial weight of the case law, as well as the ordinary meaning of the words, we conclude that it did not.

A.

We first considered the applicability of the NSPA to the theft of intellectual property in *United States v. Bottone*, 365 F.2d 389 (2d Cir.1966) (Friendly, J.), in which photocopied documents outlining manufacturing procedures for certain pharmaceuticals were transported across state lines. Since the actual processes themselves (as opposed to photocopies) were never transported across state lines, the “serious question” (we explained) was whether “the papers showing [the] processes that were transported in interstate or foreign commerce were ‘goods’ which had been ‘stolen, converted or taken by fraud’ in view of the lack of proof that any of the physical materials so transported came from [the manufacturer’s] possession.” *Id.* at 393. We held that the NSPA was violated there, observing that what was “stolen and transported” was, ultimately, “tangible goods,” notwithstanding the “clever intermediate transcription [and] use of a photocopy machine.” *Id.* However, we suggested that a different result would obtain if there was no physical taking of tangible property whatsoever: “To be sure, where no tangible objects were ever taken or transported, a court would be hard pressed to conclude that ‘goods’ had been stolen and transported within the meaning of 2314.” *Id.* Hence, we observed, “the statute would presumably not extend

to the case where a carefully guarded secret formula was memorized, carried away in the recesses of a thievish mind and placed in writing only after a boundary had been crossed.” *Id.* *Bottone* itself thus treats its holding as the furthest limit of a statute that is not endlessly elastic: Some tangible property must be taken from the owner for there to be deemed a “good” that is “stolen” for purposes of the NSPA.

Bottone’s reading of the NSPA is confirmed by the Supreme Court’s opinion in *Dowling v. United States*, 473 U.S. 207, 105 S.Ct. 3127, 87 L.Ed.2d 152 (1985), which held that the NSPA did not apply to an interstate bootleg record operation. *Dowling* rejected the Government’s argument that the unauthorized use of the musical compositions rendered them “stolen, converted or taken by fraud.” Cases prosecuted under the NSPA “have always involved physical ‘goods, wares, [or] merchandise’ that have themselves been ‘stolen, converted or taken by fraud’ —even if the stolen thing does not “remain in entirely unaltered form,” and “owes a major portion of its value to an intangible component.” *Id.* at 216.

*5 “This basic element”—the taking of a physical thing —“comports with the common-sense meaning of the statutory language: by requiring that the ‘goods, wares [or] merchandise’ be ‘the same’ as those ‘stolen, converted or taken by fraud,’ the provision seems clearly to contemplate a physical identity between the items unlawfully obtained and those eventually transported, and hence some prior physical taking of the subject goods.” *Id.* ⁴

We join other circuits in relying on *Dowling* for the proposition that the theft and subsequent interstate transmission of purely intangible property is beyond the scope of the NSPA.

In a close analog to the present case, the Tenth Circuit affirmed the dismissal of an indictment alleging that the defendant transported in interstate commerce a computer program containing source code that was taken from his employer. *United States v. Brown*, 925 F.2d 1301, 1305, 1309 (10th Cir.1991). Citing *Dowling*, the court held that the NSPA “applies only to physical ‘goods, wares or merchandise’ “ and that “[p]urely intellectual property is not within this category. It can be represented physically, such as through writing on a page, but the underlying, intellectual property itself, remains intangible.” *Id.* at 1307. The Court concluded that “the computer program itself is an intangible intellectual property, and as such, it alone cannot constitute goods, wares, merchandise, securities or moneys which have been stolen, converted or taken” for purposes of the NSPA. *Id.* at 1308.

Similarly, the Seventh Circuit has held that numerical “Comdata codes” used by truckers to access money transfers at truck stops constitute intangible property the theft of which is not a violation of the NSPA. *United States v. Stafford*, 136 F.3d 1109 (7th Cir.1998). The court reasoned that the codes themselves were not “goods, wares, or merchandise,” but rather “information”; that the defendant had not been charged with transporting pieces of paper containing the codes; and that the only conduct charged was “transferring the codes themselves, which are simply sequences of digits.” *Id.* at 1114–15.

The First Circuit has also concluded that the NSPA does not criminalize the theft of intangible things: The NSPA “does not apply to purely ‘intangible information,’ the theft of which is punishable under copyright law and other intellectual property statutes” but “*does apply* when there has been ‘some tangible item taken, however insignificant or valueless it may be, absent the intangible component.’” *United States v. Martin*, 228 F.3d 1, 14–15 (1st Cir.2000) (quoting *Brown*, 925 F.2d at 1307, 1308 n. 14).

[6] The Government argues that a tangibility requirement ignores a 1988 amendment, which added the words “transmit[]” and “transfer[]” to the terms: “transport[], transmit[], or transfer[].” The Government contends that the added words reflect an intent to cover generally transfers and transmissions of non-physical forms of stolen property. The evident purpose of the amendment, however, was to clarify that the statute applied to non-physical electronic transfers of *money*. See *United States v. Piervinanzi*, 23 F.3d 670, 678 n. 6 (2d Cir.1994). Money, though it can be intangible, is specifically enumerated in § 2314 as a thing apart and distinct from “goods,” “wares,” or “merchandise.” The addition to the possible means of transport does not bespeak an intent to alter or expand the ordinary meaning of “goods,” “wares,” or “merchandise” and therefore does not obviate the Government's need to identify a predicate good, ware, merchandise, security, or money that has been stolen.

B.

*6 [7] By uploading Goldman's proprietary source code to a computer server in Germany, Aleynikov stole purely intangible property embodied in a purely intangible format. There was no allegation that he physically seized anything tangible from Goldman, such as a compact disc or thumb drive containing source code, so we need not decide whether that would suffice as a physical theft. Aleynikov later

transported portions of the source code to Chicago, on his laptop and flash drive. However, there is no violation of the statute unless the good is transported with knowledge that “the same” has been stolen; the statute therefore presupposes that the thing stolen was a good or ware, etc., *at the time of the theft*. The wording “contemplate[s] a physical identity between the items unlawfully obtained and those eventually transported.” *Dowling*, 473 U.S. at 216. The later storage of intangible property on a tangible medium does not transform the intangible property into a stolen good.

The infringement of copyright in *Dowling* parallels Aleynikov's theft of computer code. Although “[t]he infringer invades a statutorily defined province guaranteed to the copyright holder alone[,] ... he does not assume physical control over the copyright; nor does he wholly deprive its owner of its use.” *Id.* at 217. Because Aleynikov did not “assume physical control” over anything when he took the source code, and because he did not thereby “deprive [Goldman] of its use,” Aleynikov did not violate the NSPA.

As the district court observed, Goldman's source code is highly valuable, and there is no doubt that in virtually every case involving proprietary computer code worth stealing, the value of the intangible code will vastly exceed the value of any physical item on which it might be stored. See *Aleynikov*, 737 F.Supp.2d at 187. But federal crimes are “solely creatures of statute.” *Dowling*, 473 U.S. at 213 (internal quotation marks omitted). We decline to stretch or update statutory words of plain and ordinary meaning in order to better accommodate the digital age.

II

We next consider the sufficiency of the indictment as to the EEA. As with the NSPA count, we conclude that the indictment was insufficient as a matter of law.

A.

The EEA contains two operative provisions. The first section (18 U.S.C. § 1831(a)), which is not charged in the indictment, applies to foreign espionage and is expressed broadly: “Whoever, intending or knowing that the offense will benefit any foreign government, foreign instrumentality, or foreign agent, knowingly ... without authorization ... downloads, uploads, ... transmits, ... or conveys a trade secret” is guilty of a federal offense, and may be imprisoned for up to 15 years. 18 U.S.C. § 1831(a).

[8] Aleynikov, however, was charged with violating 18 U.S.C. § 1832, which imposes the italicized limitation (which is not found in § 1831): “Whoever, with intent to convert a trade secret, *that is related to or included in a product that is produced for or placed in interstate or foreign commerce*, to the economic benefit of anyone other than the owner thereof, and intending or knowing that the offense will, injure any owner of that trade secret, knowingly ... without authorization ... downloads, uploads, ... transmits, ... or conveys such information” is guilty of a federal offense, and may be imprisoned for up to 10 years. *Id.* § 1832(a) (emphasis added).

*7 [9] Thus there is a limitation—that products be “produced for” or “placed in” interstate or foreign commerce—in the statute Aleynikov is charged with violating, a limitation that does not appear in the otherwise parallel foreign espionage statute. “Where Congress includes particular language in one section of a statute but omits it in another section of the same Act, it is generally presumed that Congress acts intentionally and purposely in the disparate inclusion or exclusion.” *Russello v. United States*, 464 U.S. 16, 23, 104 S.Ct. 296, 78 L.Ed.2d 17 (1983) (internal quotation marks and alteration omitted). The requirement that products be “produced for” or “placed in” interstate or foreign commerce therefore must be read as a term of limitation.

The legislative history confirms this. The version of § 1832 that appeared in the original Senate bill did not contain the limiting language. It applied to any person who steals “proprietary economic information having a value of not less than \$100,000”; it did not specify whether that economic information relates to a product produced for or placed in interstate commerce, and instead contained a categorical finding that “the development and production of proprietary economic information involves every aspect of interstate commerce and business.” S. 1556, 104th Cong. §§ 2(a), 3 (2d Sess.1996), reprinted in S.Rep. No. 104–359, at 1, 3. The limiting language was introduced in the House Bill. See H.R. Rep. No. 104–788, at 2 (1996), reprinted in 1996 U.S.C.C.A.N. 4021, 4021. The words of limitation in § 1832 were deliberately chosen.

The natural reading that takes account of the distinct meaning of the paired phrases (“produced for” and “placed in”) is that § 1832(a) identifies two separate but related categories. Products “placed in” commerce have already been introduced into the stream of commerce and have reached the marketplace. Products that have not yet been “placed in”

commerce but are still being developed or readied for the marketplace can properly be described as being “produced for,” if not yet actually “placed in,” commerce. Reading the statute in this way gives effect to both categories of product (those “produced for” commerce and those “placed in” commerce), without making one a subset of the other.

This interpretation has the added virtue of construing the two categories of product in relationship to one another (a sequential or temporal relationship), and finds support in the doctrine of statutory interpretation which instructs that words in a statute are known by the company they keep. See *Gustafson v. Alloyd Co., Inc.*, 513 U.S. 561, 575, 115 S.Ct. 1061, 131 L.Ed.2d 1 (1995) (invoking this doctrine “to avoid ascribing to one word a meaning so broad that it is inconsistent with its accompanying words, thus giving unintended breadth to the Acts of Congress” (internal quotation marks omitted)). The statute would fall short of critical protections if it applied only to the theft of trade secrets relating to those products that had already been “placed in” the marketplace; left vulnerable would be the class of trade secrets inhering in products that have not yet been placed on the market, such as prototypes—precisely the kinds of trade secrets that are likely to attract espionage. Congress thus plugged a gap by extending the statute’s coverage to include products “produced for” commerce as well as those already in the marketplace.

*8 The district court interpreted the phrase “produced for” interstate or foreign commerce more broadly. It held that the HFT system was “produced for” interstate commerce because “the sole purpose for which Goldman purchased, developed, and modified the computer programs that comprise the Trading System was to engage in interstate and foreign commerce” and because “Goldman uses the Trading System to rapidly execute high volumes of trades in various financial markets” and “[t]he Trading System generates many millions of dollars in annual profits.” *Aleynikov*, 737 F.Supp.2d at 179. Under that interpretation, a product is “produced for” interstate or foreign commerce if its purpose is to facilitate or engage in such commerce.

[10] [11] [12] The district court erred by construing the phrase—“produced for ... interstate or foreign commerce”—“in a vacuum.” See *Davis v. Mich. Dep’t of Treasury*, 489 U.S. 803, 809, 109 S.Ct. 1500, 103 L.Ed.2d 891 (1989). “It is a fundamental canon of statutory construction that the words of a statute must be read in their context and with a view to their place in the overall statutory scheme.” *Id.* That way, a statutory phrase “gathers meaning from the

words around it.” *Jones v. United States*, 527 U.S. 373, 389, 119 S.Ct. 2090, 144 L.Ed.2d 370 (1999) (internal quotation marks omitted). The district court’s broad interpretation of the phrase “produced for” commerce becomes untenable in light of the paired phrase “placed in” commerce. Since every product actually sold or licensed is by definition produced for the purpose of engaging in commerce, every product that is “placed in” commerce would necessarily also be “produced for” commerce—and the phrase “placed in” commerce would be surplusage. This interpretation is inconsistent with “one of the most basic interpretive canons, that a statute should be construed so that effect is given to all its provisions, so that no part will be inoperative or superfluous, void or insignificant.” *Corley v. United States*, 556 U.S. 303, 314, 129 S.Ct. 1558, 173 L.Ed.2d 443 (2009) (internal quotation marks and alteration omitted); see also *Duncan v. Walker*, 533 U.S. 167, 174, 121 S.Ct. 2120, 150 L.Ed.2d 251 (2001) (“It is our duty to give effect, if possible, to every clause and word of a statute.” (internal quotation marks omitted)). “Judges should hesitate to treat statutory terms in any setting as surplusage, and *resistance should be heightened when the words describe an element of a criminal offense.*” *Jones v. United States*, 529 U.S. 848, 857, 120 S.Ct. 1904, 146 L.Ed.2d 902 (2000) (internal quotation marks and alterations omitted; emphasis added).

Even construed in isolation, the phrase “produced for ... interstate or foreign commerce” cannot command the breadth that the district court and the Government ascribe to it. See generally *Fed. Commc’ns Comm’n v. AT & T Inc.*, — U.S. —, —, 131 S.Ct. 1177, 1184, 179 L.Ed.2d 132 (2011) (“[C]onstruing statutory language is not merely an exercise in ascertaining ‘the outer limits of [a word’s] definitional possibilities’” (quoting *Dolan v. U.S. Postal Serv.*, 546 U.S. 481, 486, 126 S.Ct. 1252, 163 L.Ed.2d 1079 (2006))). At oral argument, the Government was unable to identify a single product that affects interstate commerce but that would nonetheless be excluded by virtue of the statute’s limiting language.⁵ And even if one could identify one such example, or two, it would not be a category that would demand the attention of Congress, or be expressed in categorical terms.

*9 If § 1832(a) was intended to have such a sweep, we would expect to see wording traditionally understood to invoke the full extent of Congress’s regulatory power under the Commerce Clause. Notably, the EEA was enacted the year after the Supreme Court issued its landmark decision in *United States v. Lopez*, which held that Congress’s Commerce Clause authority is limited to those activities that “substantially affect interstate commerce.” 514 U.S. 549,

558–59, 115 S.Ct. 1624, 131 L.Ed.2d 626 (1995).⁶ The Supreme Court observes a distinction between “legislation invoking Congress’ full power over activity substantially ‘affecting ... commerce’ “ and legislation which uses more limiting language, such as activities “ ‘in commerce,’ “ and thereby does not purport to exercise the full scope of congressional authority. *Jones*, 529 U.S. at 856 (quoting *Russell v. United States*, 471 U.S. 858, 859–60 & n. 4, 105 S.Ct. 2455, 85 L.Ed.2d 829 (1985)). The temporal proximity between the enactment of the EEA and the decision in *Lopez* makes significant the omission from the EEA of the language blessed in that case as invoking the outer limit of Congress’s regulatory authority.

B.

Goldman’s HFT system was neither “produced for” nor “placed in” interstate or foreign commerce. Goldman had no intention of selling its HFT system or licensing it to anyone. *Aleynikov*, 737 F.Supp.2d at 175. It went to great lengths to maintain the secrecy of its system. The enormous profits the system yielded for Goldman depended on no one else having it. Because the HFT system was not designed to enter or pass in commerce, or to make something that does, Aleynikov’s theft of source code relating to that system was not an offense under the EEA.

[13] Even if we were to conclude that the phrase “produced for ... interstate or foreign commerce” is susceptible to a broader reading than we think it will bear, it would at most render § 1832(a) facially ambiguous, which would not assist the prosecution. “[A]mbiguity concerning the ambit of criminal statutes should be resolved in favor of lenity.” *Rewis v. United States*, 401 U.S. 808, 812, 91 S.Ct. 1056, 28 L.Ed.2d 493 (1971). And “when choice has to be made between two readings of what conduct Congress has made a crime, it is appropriate, before we choose the harsher alternative, to require that Congress should have spoken in language that is clear and definite.” *United States v. Universal C.I.T. Credit Corp.*, 344 U.S. 218, 221–22, 73 S.Ct. 227, 97 L.Ed. 260 (1952).

The conduct found by the jury is conduct that Aleynikov should have known was in breach of his confidentiality obligations to Goldman, and was dishonest in ways that would subject him to sanctions; but he could not have known that it would offend this criminal law or this particular sovereign.

CONCLUSION

For the foregoing reasons, the judgment of the district court is reversed.

CALABRESI, J., concurring:

I join the majority opinion in its description of the facts and history of this case, and in its discussion in Part I, which deals with the National Stolen Property Act (“NSPA”). I also join Part II, which considers the Economic Espionage Act (“EEA”), but as to that act I wish to add a few thoughts.

*10 I agree with the majority that the text of the EEA is such that it would require stretching to cover Aleynikov's acts. But texts must always be read in context, and context includes not only the whole of the statute (well addressed by the majority), but also the “mischief” the law was enacted to address. This is not the same as legislative history. It is significant that when English courts were not allowed to look at Hansard (the account of the laws' passage through Parliament), they nevertheless could, and frequently did, consider the circumstances because of which a law was introduced and passed. That is, they considered the situational context and mischief. *See Gorris v. Scott*, (1874) 9 L.R. Exch. 125 (Eng.) (refusing to apply an order of the Privy Council to a mischief different from that which prompted the issuance of the order); *see generally Heydon's Case*, (1584) 76 Eng. Rep. 637 (Exch.) 638; 3 Co. Rep. 7a, 7b (“[T]he office of all the Judges is always to make such construction as shall suppress the mischief, and advance the remedy, and to suppress subtle inventions and evasions for continuance of the mischief”).

The EEA was passed after the Supreme Court and the Tenth Circuit said the NSPA did not cover intellectual property. *See Dowling v. United States*, 473 U.S. 207, 226, 105 S.Ct. 3127, 87 L.Ed.2d 152 (1985); *United States v. Brown*, 925 F.2d 1301, 1307–08 (10th Cir.1991). While the legislative history can be read to create some ambiguity as to how broad a reach the EEA was designed to have, it is hard for me to conclude that Congress, in this law, actually meant to exempt the kind of behavior in which Aleynikov engaged. *See H.R.Rep. No. 104-788, at 6 (1996), reprinted in 1996 U.S.C.C.A.N. 4021, 4024–25 (citing Brown)*. I am not dissenting because I recognize the strength of the majority's analysis of the text and the legislative history, and because, as the majority says, ambiguous criminal statutes must be read in favor of the defendant. Nevertheless, while concurring, I wish to express

the hope that Congress will return to the issue and state, in appropriate language, what I believe they meant to make criminal in the EEA.

1 In addition to proprietary source code, Aleynikov also transferred some open source software licensed for use by the public that was mixed in with Goldman's proprietary code. However, a substantially greater number of the uploaded files contained proprietary code than had open source software.

2 Aleynikov challenges his conviction and sentence on several additional grounds as well. Because we conclude that the indictment failed to state an offense, we need not resolve these additional challenges.

3 On appeal, both the Government and Aleynikov frame their arguments in terms of the sufficiency of the indictment rather than the sufficiency of the evidence. Because the result and analysis would be the same under either formulation, for the purposes of this opinion we adopt the one used by the parties, and do not decide which is doctrinally more sound.

4 In holding the NSPA inapplicable to copyright infringement, *Dowling* also relied on particular features of the Copyright Act, including the carefully calibrated criminal penalties for infringement: Applying the NSPA to copyright infringement would be a “blunderbuss solution to a problem treated with precision when considered directly.” *Id.* at 226. At the same time, the Court's reasoning and analysis focuses on the pure intangibility of a copyright, and the requirement under the NSPA that there be a physical taking and removal of goods.

5 The only example provided by the Government of a trade secret that affects interstate commerce but that is beyond the purview of the EEA was a proprietary training manual for stock brokers. But by the Government's explanation, such a trade secret would not be covered because the broker to whom it relates is a person and not a “product,” not because the training manual was not “produced for ... interstate or foreign commerce” as the Government interprets that phrase.

6 *Lopez* held that Congress may regulate three categories of activity under its commerce power: [1] “the use of the channels of interstate commerce”; [2] “the instrumentalities of interstate commerce, or persons or things in interstate commerce”; and [3] activities that “substantially affect interstate commerce.” *Id.* It is the third of the three categories that is at issue in this case.

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