From Peer-to-Peer Networks to Cloud Computing: How Technology is Redefining Child Pornography Laws

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INTRODUCTION

Congress has aggressively banned activity involving child pornography and has issued numerous directives to the United States Sentencing Commission ("Commission") to increase punishment. As a result, prosecutions and sentences have risen...
dramatically.\textsuperscript{1} With the demise of mandatory sentencing,\textsuperscript{2} a growing number of district court judges have deviated downward from the sentencing guidelines ("Guidelines"), particularly in possession cases. The debate over the appropriate sentences for convicted child pornographers has also intensified among scholars, judges, legislators, and the general public. Either through judicial rejection of guideline suggestions or through direct action by the Commission, sentencing reform appears likely.\textsuperscript{3} However, the concentrated focus on sentencing overlooks a vital, broader inquiry into the offenses themselves and the changes technology has wrought in how they are committed.

This Article seeks to fill this gap and provide a framework for a normative evaluation of the offenses and their sentences. It contends that laws enacted to address physical world issues of child pornography dissemination are obsolete in the virtual world. It was clear in the late 1970s, when investigative reporters first exposed the child pornography market, which actors fell into the categories of transporters, distributors, and receivers.\textsuperscript{4} For example, in the past, Suspect Sam would get child pornography from a smut peddler and Suspect Sam's possession of it would not even be a crime.\textsuperscript{5} Today, Suspect Sam most likely gets his child pornography from his home computer

\footnote{\textsc{Troy Stabenow, Deconstructing the Myth of Careful Study: A Primer on the Flawed Progression of the Child Pornography Guidelines} 2-3 (2009), available at http://www.fd.org/docs/Select-Topics-sentencing/child-porn-july-revision.pdf. For example, for one defendant who distributed five images of a child under the age of twelve, the 1987 Guideline range was 12 to 18 months; however, by 2004, the Guideline range was 188 to 235 months. \textit{Id.} at 27–28. See infra Part I.D for a discussion of the impact of this report.}

\footnote{See United States v. Booker, 543 U.S. 220, 258–60 (2005).}


\footnote{See \textsc{Dept of Justice, Attorney General's Commission on Pornography: Final Report} 599–603 (1986) [hereinafter FINAL REPORT].}

\footnote{See Osborne v. Ohio, 495 U.S. 103, 110–11 (1990) (noting that only nineteen states had banned possession of child pornography in 1990).}
and, by downloading images, he both receives and possesses the images. Current law dictates that Suspect Sam gets a minimum sentence of five years for receiving the images, and up to ten years for possessing them—with no mandatory minimum for the possession. In addition, simply because he used a computer to commit the offenses, Suspect Sam's sentence would be increased.

To further illustrate the impact of technology, if Suspect Sam downloaded the images from a peer-to-peer application and stored them in a shared online folder, in addition to the receiving and possessing charges, he could also be charged with distributing the images. These redundancies are not merely sentencing issues; more essentially, there is an overlap in charges since the very same action gives rise to multiple offenses. The once-clear divisions between distribution, transportation, and receipt are blurred in cyberspace. Thus, examining the child pornography statutes is a requisite to addressing current sentencing controversies. Meaningful scrutiny must be grounded in the rationale for the ban on child pornography—the harm to the children depicted.

This Article traces the history of the child pornography laws and sentencing policy in Part I. Part II explains the technologies that have caused some of the current controversies, and then Part III describes how these technologies have blurred the offenses. Finally, Part IV makes suggestions as to how the law could better reflect technology and comport with a refined harm rationale. Courts, legal scholars, and medical experts have explained the harm includes the sexual abuse captured in the images and the psychological injury the victim endures knowing the images are being viewed. This Article further develops the harm rationale by explaining that the harm rests on a fundamental injury to the victim's human dignity and privacy. Drawing on comparisons to diverse laws such as the Geneva Convention's ban on photographs of prisoners of war, this Article states that all traders in child pornography violate the rights of the children depicted, and therefore, inflict harm, albeit at different levels. This Article suggests that a statutory scheme that divides pornographers into three groups—producers, traders, and seekers—would best reflect how technology has

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7 See infra notes 51–52 and accompanying text.
8 See infra notes 153, 155 and accompanying text.
changed the manner in which pornography is gathered and spread. Sentences could be calibrated accordingly to punish for the harm inflicted by the pornographers.

I. BACKGROUND

A. Current Law

Federal laws enacted to protect children from child pornographers can be divided into two main categories: First, Congress has enacted a stringent ban on producing child pornography, with a mandatory minimum sentence of fifteen years.\(^9\) Second, Congress has banned all aspects relating to the trafficking of child pornography, including transporting, distributing, receiving, possessing, accessing, soliciting, or advertising child pornography.\(^10\) Congress has mandated minimum five-year sentences for transporting, distributing, and receiving, while the other offenses have no minimum sentence.\(^11\)

The following subsection provides a chronology of legislative and judicial action on pornography offenses, with complementary sentencing guidelines. The piecemeal and reactive development of the law demonstrates why deep structural changes are presently needed.

B. Legislative and Judicial History

Following an increased public awareness of the scourge of child pornography in the late 1970s, Congress passed the Protection of Children Against Sexual Exploitation Act of 1977.\(^12\) The Act punished commercial producers,\(^13\) transporters,\(^9\)\(^10\)\(^11\)

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\(^10\) Id. § 2252A.

\(^11\) Id. § 2252A(b)(1)-(2). Attempts are punished the same as the completed offenses. Id.


distributors, and receivers of obscene child pornography.\(^{14}\) During this same time period, states were also enacting their own bans on child pornography without the obscenity requirement.\(^{15}\) This led to the 1982 landmark ruling in *New York v. Ferber*,\(^{16}\) in which the United States Supreme Court held that child pornography was not protected by the First Amendment even if it was not obscene because it was "intrinsically related to the sexual abuse of children."\(^{17}\) The Court reasoned that the materials produced were a permanent record of the child's participation and the harm to the child was exacerbated by their circulation.\(^{18}\) The Court recognized the dignitary harm inflicted by child pornographers, observing that they violate "the individual interest in avoiding disclosure of personal matters."\(^{19}\)

Following *Ferber*, Congress amended the original federal child pornography legislation to remove the obscenity and commercial purpose requirements.\(^{20}\) Congressional hearings leading to the amendments found that much of the trade between child pornographers was by gift or exchange, so the commercial purpose requirement unnecessarily limited the reach of the law.\(^{21}\) Thus, from very early on, Congress was aware purveyors of child pornography were motivated by more than money;\(^{22}\) this impulse has been greatly exacerbated by technology.\(^{23}\)

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\(^{14}\) 18 U.S.C. § 2252. The obscenity requirement was based on congressional fear that the courts would strike the legislation as unconstitutional without it. See Amy Adler, *Inverting the First Amendment*, 149 U. PA. L. REV. 921, 929–30 (2001).

\(^{15}\) See Adler, *supra* note 14, at 930–32.


\(^{17}\) Id. at 759.

\(^{18}\) Id.

\(^{19}\) Id. at 759 n.10 (quoting Whalen v. Roe, 429 U.S. 589, 599 (1977)).


\(^{21}\) Mazzone, *supra* note 13, at 182. Congress also found the obscenity requirement posed enormous hurdles for prosecutors given the complexity of obscenity rules and standards. Id.


\(^{23}\) Id. at 373–74.
The hearings also revealed that production of child pornography was so clandestine that, between 1978 and 1984, only one person was convicted for producing child pornography.\textsuperscript{24} Thus, the need to stop the flow, rather than the production of child pornography, became the preferred route for prosecutors. The difficulty of reaching producers has not abated as most child pornography is now produced overseas in countries with few or no effective laws against child exploitation.\textsuperscript{25}

Originally, there was no federal ban on possessing child pornography in large part because the Supreme Court had previously ruled possession of obscene materials was protected by the First Amendment.\textsuperscript{26} However, in \textit{Osborne v. Ohio},\textsuperscript{27} the Court ruled that the mere possession or viewing of child pornography victimized children and the state could prohibit it.\textsuperscript{28} The \textit{Osborne} Court reiterated that pornography is a permanent record of a victim’s abuse that “causes the child victims continuing harm by haunting the children in years to come.”\textsuperscript{29} In addition, the Court reasoned that banning possession would protect future victims of child pornography by drying up the market for it.\textsuperscript{30} Congress reacted to \textit{Osborne} and passed the

\textsuperscript{24} See \textit{FINAL REPORT}, \textit{supra} note 4, at 604.
\textsuperscript{26} See \textit{Stanley v. Georgia}, 394 U.S. 557, 568 (1969). The \textit{Stanley} Court reasoned that prohibiting the possession of obscene materials in one’s home was inimical to the very premise of the First Amendment’s protection against state interference with what a person thinks, reads, or views in the privacy of his home. \textit{Id.} at 565–66. It specifically rejected the state’s claim that it had a legitimate interest in banning the possession of obscene material because this material may lead to sexual violence. \textit{Id.} at 566–67. The \textit{Stanley} Court stated that not only was there no empirical evidence that supported the state’s claim, but that crime prevention is better served by “education and punishment for violations of the law” than by criminalizing anticipatory conduct. \textit{Id.} The \textit{Stanley} Court also rejected the state’s contention that criminalizing possession was needed to support the state’s ban on the distribution of obscene materials, reasoning that this need did not justify a ban on what a person read or viewed in his home. \textit{Id.} at 567–68.
\textsuperscript{27} 495 U.S. 103 (1990).
\textsuperscript{28} \textit{Id.} at 109–10 (distinguishing its ruling in \textit{Stanley} and holding that the state’s interest in protecting children by banning possession of child pornography outweighed a defendant’s First Amendment rights because of the harm inflicted to children by all involved in the child pornography chain).
\textsuperscript{29} \textit{Id.} at 111.
\textsuperscript{30} \textit{Id.} at 109–10. The \textit{Osborne} Court also added a new prospective rationale for the possession ban: to thwart the use of images to seduce new victims. \textit{Id.} at 111.
Child Protection Restoration and Penalties Enhancement Act of 1990, which banned possession of three or more images of child pornography.\textsuperscript{31}

The advent of computer technology led to congressional concerns that existing legislation was out of date. In 1996, Congress expanded the definition of child pornography to encompass images that "[are] or appear[] to be, of a minor engaging in sexually explicit conduct."\textsuperscript{32} The Supreme Court struck down the ban on virtual child pornography because production of virtual child pornography did not abuse actual children.\textsuperscript{33} Congress responded with the 2003 PROTECT Act which, among other things, outlawed computer-generated

\textsuperscript{31} S. Res. 3266, 101st Cong. (1990) (enacted as 18 U.S.C. § 2252 (2012)). Subsequent legislation banned possessing any images but created an affirmative defense for possession of less than three images when the defendant took steps to destroy the images or reported them to the authorities. 18 U.S.C. § 2252A(d).

\textsuperscript{32} 18 U.S.C. § 2256(8)(B) (2012) (emphasis added) (repealed 2003). Congress's ban on pornographic images of such virtual children was based on congressional findings of compelling state interests in protecting actual children from all child pornography, whether depicting real or virtual children. "The legislative history of the CPPA was premised on thirteen findings, including that pedophiles use images of child pornography to seduce actual children to engage in sexual conduct by reducing their inhibitions and desensitizing them." Rogers, supra note 13, at 328; see Child Pornography Prevention Act of 1996, Pub. L. No. 104-208, § 121, 110 Stat. 3009-26, 3009-26-3009-27 (1996). Additionally, Congress found that both real and virtual child pornography whetted the appetite of molesters by fueling their fantasies and stimulating their desire to molest an actual child. § 121(1), 110 Stat. at 3009-26-3009-27. Congress found further that the child pornography prosecutions would be increasingly difficult as images of virtual children become indistinguishable from actual victims of child pornography. See id. § 121(1)(5)-(9).

\textsuperscript{33} Ashcroft v. Free Speech Coal., 535 U.S. 234, 256 (2002). The majority also rejected the government's indirect harm arguments. It ruled that the risks of virtual pornography whetting the appetite of child molesters or being shown by molesters to seduce children were too remote to support an abridgement of constitutionally protected speech. Id. at 253-54. In addition, the majority disagreed with the government's position that prohibiting virtual pornography is necessary to dry up the market for actual child pornography because they are part of the same market. Id. at 254-55. It noted the reverse—that allowing virtual pornography could in fact protect children by drying up the market of actual child pornography. The majority also upheld challenges to the CPPA's pandering section that prohibited materials that "convey[ed] the impression" that they were of a minor engaged in sexually explicit conduct. Id. at 255-56. The Court noted that the provision prohibited possession of a sexually explicit film containing no minors merely because it was promoted as containing minors. Id. at 257.
pornography that is "indistinguishable" from a real depiction, and created a five-year minimum sentence for transporting, distributing, or receiving child pornography. Part of the PROTECT Act included a new pandering provision with the same statutory sentence rules as the possession offense. Accordingly, even if images of child pornography are computer-generated, the speech offering or seeking them can be proscribed. Further acknowledging the impact of technology, in 2008, Congress expanded the ban on possession to include "access[ing] with intent to view" online images of child pornography after defendants had successfully argued they did not possess images unwittingly stored in their computers.

C. Sentencing History

Parallel to congressional and judicial actions on child pornography offenses were the development of the Guidelines. Congress included mandatory minimums and maximums in many of the child pornography laws and directed the Sentencing Commission to establish Guidelines to implement the Sentencing Reform Act of 1984, which created the mandatory sentencing Guidelines. The Guidelines were meant to limit

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35 18 U.S.C. § 2252A(a)(3)(B) (punishing a person who knowingly "advertises, promotes, presents, distributes, or solicits" child pornography). The Supreme Court upheld the constitutionality of the pandering provision and ruled that offers to engage in illegal activity were excluded from First Amendment protection. See United States v. Williams, 553 U.S. 285, 298-99 (2008).

36 See generally Rogers, supra note 13.


38 See, e.g., 18 U.S.C. § 2252(b).

39 Sentencing Reform Act of 1984, Pub. L. No. 98-473, § 212(a)(2), 98 Stat. 1837, 1987-88 (1984) (codified as amended at 18 U.S.C. § 3551(a) (2012)). See generally 2009 COMMISSION REPORT, supra note 3. To do so, the Guidelines are structured so that each offense has a base offense level, which is then adjusted up or down by applying special offense characteristics. For example, the current base level for receiving child pornography is twenty-two; special offense characteristics include adding two levels if the images involved a child under twelve years old, four levels if the images portrayed sadistic behavior, and two levels for use of a computer; decreases by two levels are made if the defendant did not intend to distribute the material. See U.S. SENTENCING GUIDELINES MANUAL § 2G2.2 (2013); ORIN S. KERR,
judicial discretion, provide for more uniformity in sentences, and reflect the purposes of punishing those who commit federal offenses.  

From the outset, the Commission labeled transporting, receiving, or distributing offenses as “trafficking” in child pornography.  

In a foreshadowing of current sentencing controversies, when possession was federally outlawed in 1991, the Commission amended the Guidelines by moving the receipt offense to the new possession guideline because it determined that “receipt is a logical predicate to possession.” This change lasted less than one month because of strong congressional objection to the reduced penalty for receiving child pornography. The Commission continued to recognize the overlap between possession and receipt but separate Guidelines existed for trafficking offenses and possession offenses until 2004, when the Commission finally consolidated them. As discussed below, the consolidation of sentencing criteria without changes in offense categories only served to worsen sentencing controversies.

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40 See, e.g., 18 U.S.C. § 3553(a)(2) (2012); 2009 COMMISSION REPORT, supra note 3, at 1 n.2. The four punishment rationales can be summarized as retribution, deterrence, incapacitation, and rehabilitation.

41 See 2009 COMMISSION REPORT, supra note 3, at 14 (using trafficking to refer to the § 2252 crimes of transporting, receiving, and distributing child pornography). Initially, there were only two offense characteristic increase triggers: minor under twelve years old and distribution based on retail value. Id. at 12, 17; see also infra notes 160–82 and accompanying text (discussing the significance of the distribution enhancement).

42 2009 COMMISSION REPORT, supra note 3, at 19.

43 Id. at 19–22.

44 Id. at 42–43. With the consolidation, the Commission added a two-level decrease if defendant’s conduct was limited to receipt without intent to distribute. Id. at 48. It did so specifically to ameliorate the disproportionality in sentences that the mandatory minimum was apt to create because it found that simple receipt was very similar to simple possession cases. Id.

45 See infra Part III.
Over the years, the Commission added numerous offense enhancements based on what it assessed to be aggravating factors, such as depicting prepubescent children or sadomasochistic attacks on children. While some enhancements were made after the Commission conducted a detailed study of empirical data, other enhancements resulted solely from congressional directive. The most controversial today are discussed below.

D. Current Sentencing Controversy

A chorus of scholars and judges have criticized the Guidelines as being more the product of public hysteria over child pornographers rather than being tied to a rational assessment of the goals of punishment. A leading critic of the current sentencing regime, Troy Stabenow, noted in his widely-cited report, “The flaw with U.S.S.G. § 2G2.2 today is that a common, first time offender can chart at the statutory maximum, regardless of Acceptance of Responsibility and Criminal History.” He outlined how the Commission increased the Guidelines based on congressional directives, such as the PROTECT Act’s mandate of five-year minimums for trafficking offenses, rather than on empirical studies.

For example, at the same time Congress made its failed attempt to ban computer-generated child pornography in 1996, it also directed the Sentencing Commission to increase sentences
whenever a computer was used in child pornography offenses.\(^{51}\) It did so but cautioned such a broad application did not adequately differentiate between computer users, who, in 1996, could range from a simple downloader to a "large-scale, commercial pornographer[] . . . who [could] upload, send or post illegal images."\(^{52}\)

The Commission's promise to monitor the array of computer usage is all the more necessary today because computer technology has fundamentally altered the child pornography landscape. While only twenty-eight percent of defendants used a computer to commit child pornography offenses in 1995, by 2008, ninety-six percent of defendants used one, and today, that number is most likely one hundred percent.\(^{53}\) This ubiquitous use is at the heart of the criticism of the enhancement.\(^{54}\) More significantly, the abilities the Commission ascribed only to sophisticated commercial operators, such as posting and uploading, can be performed by anyone today on a personal computer or tablet. Thus, the enhancement is flawed because the very nature of computer capabilities make the trafficker and purveyor distinction meaningless.

Another enhancement that has garnered extensive criticism is for the number of images possessed.\(^{55}\) First added in 2003, this enhancement did not have the benefit of empirical study or the standard notice and public comment period.\(^{56}\) Because computer technology allows individual to gather hundreds of images with the click of a mouse, some have criticized this enhancement as

\(^{51}\) 2009 COMMISSION REPORT, supra note 3, at 26, 30. The congressional directive was contained in the Sex Crimes Against Children Prevention Act of 1995. Id. at 26.


\(^{53}\) STABENOW, supra note 1, at 16; 2009 COMMISSION REPORT, supra note 3, at 30 n.148.

\(^{54}\) See, e.g., STABENOW, supra note 1, at 15–16. See generally Exum, supra note 48; Hessick, supra note 48.


\(^{56}\) STABENOW, supra note 1, at 23–24; 2009 COMMISSION REPORT, supra note 3, at 39 n.190. The effective date of the enhancement was in November 2004. See 2012 COMMISSION REPORT, supra note 3, at 140.
inconsequential in assessing blameworthiness.\textsuperscript{57} Professor Douglas Berman has echoed Stabenow's findings and has testified that sentencing enhancements such as use of a computer "[are] irrational because logically and factually, the characteristics are simply not genuine aggravating factors. Rather, they are inherent in just about any downloading offense."\textsuperscript{58}

Other scholars criticize the sentences as based upon a faulty premise that possession of child pornography is as bad or worse than the child abuse that created it.\textsuperscript{59} They assert this parity fails to recognize the derivative nature of the child pornography offenses in that images are unlawful only because they are recording and then spreading images of actual abuse.\textsuperscript{60} Critics further claim that part of the increase is based on an unproven preventative rationale that possessors of child pornography are more likely to abuse children.\textsuperscript{61} As part of its review of child pornography offenses, the Sentencing Commission examined a number of studies and concluded that while general recidivism rates for downstream users of pornography were similar to that of all federal offenders, the rate of sexual recidivism was less than commonly believed.\textsuperscript{62} Yet, it found also that as many as thirty-eight percent of downstream users had prior criminal sexually dangerous behavior.\textsuperscript{63}

In addition to scholarly criticism, surveys of district court judges conducted by the Commission in 2009 show that seventy percent believed the Guideline range for possession was too high; sixty-nine percent thought the range for receipt was too high; and thirty percent believed the range for distribution was too

\textsuperscript{57} See, e.g., United States v. Hanson, 561 F. Supp. 2d 1004, 1010 (E.D. Wis. 2008). See generally STABENOW, supra note 1, at 21; Friedman & Supler, supra note 55.

\textsuperscript{58} United States v. Grober, 595 F. Supp. 2d 382, 397 (D.N.J. 2008), aff'd, 624 F.3d 592 (3d Cir. 2010).


\textsuperscript{60} See, e.g., Hessick, supra note 48, at 865, 867–68.

\textsuperscript{61} See Hessick, supra note 48, at 870–71.

\textsuperscript{62} 2012 COMMISSION REPORT, supra note 3, at 306–10. It found a 30% rate of general recidivism, but only a 7.4% rate of sexual recidivism. Id. at 310.

\textsuperscript{63} Id. at 205.
Circuit courts have also expressed reservations about the Guideline ranges. For example, the Second Circuit, in *United States v. Dorvee*, found that a 240-month sentence for distribution of child pornography was substantively unreasonable. It was troubled that the Guidelines for trafficking offenses were not based on empirical data, but rather on congressional directive.

There are courts and scholars who support the Guidelines. For example, in testimony before the Sentencing Commission, Ernie Allen, President of the National Center for Missing and Exploited Children, explained that, as with other illegal contraband, child pornography needs to be stopped at the point of production and at the point of distribution and possession. He pointed out that the Supreme Court has found a causal link between the demand for images and the possession and distribution of the images. Some have discounted the oft-cited Stabenow report as fundamentally flawed. For example, one district court judge noted Stabenow fails to identify the characteristics of the "average offender" who charts at the statutory maximum, but when one does so, it is a person that has "more than 600 images of prepubescent child pornography containing sadistic and masochistic images."
It is telling that the Commission itself has criticized the direction Congress was taking. With the Sentencing Commission’s call for public hearings on child pornography sentences, even the Justice Department agreed that sentencing enhancements based on the use of a computer and the number of images involved in a crime need to be reassessed. In its 2012 report, the Commission recommended the guidelines be revised to better measure culpability. For example, it agreed that the number of images per se was an “outmoded measure[]” of an offender’s culpability; instead, it suggested a new measure that would focus on whether the offender engaged in online child pornography communities.

Both sides make some sound arguments. There is validity to critics’ arguments that derivative harm is typically less severe than direct harm. Yet they ignore that downstream users inflict independent psychological and dignitary harm. They may, in fact, be inflicting more harm than the producer of the image. Take, for example, a recent case in which an elementary school principal pled guilty to producing child pornography after he was caught surreptitiously recording boys’ genitals while they were in the bathroom. Here, the harm suffered by the victims

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We believe the Commission should complete its review of the sentencing guidelines applicable to child exploitation crimes and prepare a report to Congress that might include recommendations for reforming the current child exploitation guidelines. The goal of any such reform would be to update the guidelines to address changing technology and realities surrounding these offenses, improve the consistency of sentences across child exploitation crimes, and ensure that the sentences for certain child exploitation offenses adequately reflect the seriousness of the crimes.

Id.

73 2012 COMMISSION REPORT, supra note 3, at 320–25.
74 Id. at 321.
75 Id. at 312–14.
76 Some disagree with these arguments. See Hessick, supra note 48, at 866 (citing critics).
77 See supra notes 179, 183.
78 Warren Richey, Child Pornography: Former Elementary-School Principal Gets 30 Years, CHRISTIAN SCI. MONITOR (Nov. 22, 2011), http://www.csmonitor.com/USA/Justice/2011/1122/Child-pornography-Former-elementary-school-principal-gets-30-years. The FBI also found 32,000 images and over 12,000 videos of child pornography in his home, mostly obtained via the Internet. One might question whether the display was the “lascivious exhibition of the genitals” as required to
was the embarrassment and distress of knowing the images were being circulated; they were not physically abused in the creation of them. Thus, we cannot say that harm inflicted by downstream users is less severe than harm inflicted by the producer of the images; a more nuanced approach that focuses on case specifics would be a better measure of harm.

The danger, however, of the intensity of the criticism of current sentences is that it has caused some to dismiss the premise that any harm has occurred. Many defendants claim possession is a “victimless” crime, and while some lower courts agree, more reasoned courts have soundly rejected the notion that derivative use of child pornography is victimless. On the other hand, mulish support of the current sentencing regime in face of the mounting criticism of the Guidelines risks continued judicial nullification and randomized sentences. While Congress has sought to acknowledge the impact of technology on child pornography offenses, it has done so only by expanding the range of prohibited activities. It would be wise for Congress to also see technology as a limiting force in that the labels no longer define distinct behaviors, and therefore, the differential punishment scheme is increasingly devoid of rationale.

When we add to the sentencing controversy the new problem of how technology has conflated the offenses, we are left with a situation in dire need of reform. Essential to the solution is an understanding of the technological changes to the manner in which the child pornography crimes are being committed. The next Part traces these changes.

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79 See, e.g., United States v. D'Andrea, 473 F.3d 859, 865 (8th Cir. 2007); United States v. Rogers, 423 F.3d 823, 828 (8th Cir. 2005); State v. Berger, 134 P.3d 378, 386 (Ariz. 2006).

80 See, e.g., United States v. Goff, 501 F.3d 250, 259 (3d Cir. 2007) (criticizing the district court's reasoning that a possession offense had no real victim); United States v. Cunningham, 650 F. Supp. 2d 844, 863–64 (N.D. Ohio 2010) (criticizing courts that see possession as a victimless crime).

II. THE GROWTH OF TECHNOLOGY

As child pornography legislation developed over time, so did computer technology. The late 1970s and early 1980s saw the first spread of computers from isolated government and industrial usage to everyday personal usage. Concomitantly, connectivity between computers was evolving. In the 1970s, computer engineers at research institutions throughout the United States began to link their computers together using telecommunications technology. The first networking card was created in 1973, allowing data transfer between connected computers. In time, the network, originally limited to academic and military institutions, spread and became known as the Internet.

As computers were linked, file-sharing and online discussions were becoming increasingly popular. The first Internet discussion system, “Usenet,” was developed in 1979. Its main purpose was the exchange of text-based messages, but

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83 Blain, supra note 82.

84 Exhibits: Internet History 1970’s, Computer History Museum, http://www.computerhistory.org/internet_history/internet_history_70s.html (last visited Mar. 2, 2014). The Advanced Research Projects Agency Network (ARPANET) was the world’s first operational packet switching network and the core network of a set that came to compose the global Internet. The network was funded by United States Department of Defense for use by its projects at universities and research laboratories. With packet switching, a data system could use one communications link to communicate with more than one machine by collecting data into datagrams and transmitting these as packets onto the attached network link, whenever the link is not in use. Thus, not only could the link be shared, much as a single post box can be used to post letters to different destinations, but each packet could be routed independently of other packets. ARPANET—The First Internet, Living Internet, http://www.livinginternet.com/ilii_arpnet.htm (last visited Mar. 2, 2014).

through attachments, it allowed users to encode files and distribute them to participating subscribers of Usenet newsgroups.\textsuperscript{86}

Between 1979 and the mid-1990s, file-sharing was done through Usenet and bulletin board systems ("BBS").\textsuperscript{87} Thousands of BBSs sprang up, creating active virtual communities. The "alt" hierarchy enabled the Usenet community to exercise freedom of speech by allowing anyone to create a group, such as alt.sex.\textsuperscript{88} Bulletin boards and Usenet eventually became obsolete as the Internet grew in popularity.\textsuperscript{89}

In the 1990s, the tandem spread of applications like e-mail and the World Wide Web and the development of fast networking technologies like Ethernet\textsuperscript{90} saw computer networking become commonplace.\textsuperscript{91} The number of computers that are networked has grown explosively, from one million in 1992\textsuperscript{92} to over two billion by 2012.\textsuperscript{93} A very large proportion of personal computers regularly connect to the Internet to communicate and receive information. "Wireless" networking, which uses mobile phone networks, has meant that networking is becoming increasingly pervasive.\textsuperscript{94}

\begin{footnotesize}
\begin{enumerate}
\item See Sascha Segan, R.I.P Usernet: 1980–2008, PCMAG (July 31, 2008), www.pcmag.com/article2/0,2817,2326849,00.asp.
\item COMPUTER HISTORY MUSEUM, supra note 84.
\end{enumerate}
\end{footnotesize}
While file-sharing was initially done through Usenet and Bulletin Boards, in 1999, Napster was released.\textsuperscript{95} Napster was a centralized system that indexed and stored music files that users of Napster made available on their computers for others to download.\textsuperscript{96} Files were transferred directly between users after authorization by Napster.\textsuperscript{97} It became extremely popular, and in 2001, Napster was sued by several recording companies. Napster lost in court against these companies and was eventually shut down.\textsuperscript{98}

The next technological milestone was the development of decentralized file-sharing systems.\textsuperscript{99} The decentralized systems allow users to directly connect to each other's files, rather than going through a central index site.\textsuperscript{100} In 2001, Kazaa was released, with users mainly exchanging music files and other file types, such as videos, applications, and documents, over the Internet.\textsuperscript{101} Until its decline in 2004, Kazaa was the most popular file-sharing program in the world.\textsuperscript{102} As with Napster, it faced, and lost, numerous copyright infringement suits, until it declined in use and popularity.\textsuperscript{103}


\textsuperscript{97} A & M Records, 114 F. Supp. 2d at 905.


\textsuperscript{99} See Johnson et al., supra note 95, at 1–2.

\textsuperscript{100} Napster's Sons: Singing a Different Tune?, \textsc{BloombergBusinessWeek} (Feb. 20, 2002), http://www.businessweek.com/stories/2002-02-20/napsters-sons-singing-a-different-tune.


New iterations of file-sharing networks, such as Limewire and BitTorrent, continue to allow no-cost, decentralized, peer-to-peer file-sharing.\textsuperscript{104} Furthermore, file-sharing software evolved, so that computer users no longer had to install and configure sophisticated multiple file-sharing programs.\textsuperscript{105} Today, peer-to-peer members need only download the compatible software from the Internet to become part of the network and be able to download digital files from other members of that network.\textsuperscript{106} They can also upload or post their files onto the network.\textsuperscript{107} A crucial aspect of peer-to-peer file-sharing is that the default setting for these networks is that downloaded files are placed in the user’s “shared” folder, which allows others in the network to access the files.\textsuperscript{108} A user must affirmatively change his network setting to disable this sharing feature.\textsuperscript{109} The network is designed to encourage sharing by providing faster downloading if the user allows sharing.\textsuperscript{110} As the Internet has grown, so too has online child pornography.\textsuperscript{111} By 2005, child pornography over the Internet was a 3 billion dollar-a-year industry, consisting of over 4.2 million pornographic websites and approximately 372 million pornographic pages.\textsuperscript{112} The file-

\begin{footnotes}
\item[107] Id.
\item[108] See, e.g., United States v. Layton, 564 F.3d 330, 335 (4th Cir. 2009); United States v. Carani, 492 F.3d 867, 875–76 (7th Cir. 2007); United States v. Griffin, 482 F.3d 1008, 1013 (8th Cir. 2007).
\item[109] See Carani, 492 F.3d at 869.
\item[110] United States v. Geiner, 498 F.3d 1104, 1110–11 (10th Cir. 2007).
\end{footnotes}
sharing network Gnutella has reported receiving 116,000 requests for child pornography in 2010. The ability to seek, download, and share files has completely changed the landscape for many industries, notably in the legitimate entertainment world. It has had the same dramatic impact in the child pornography arena.

The newest technology is cloud computing where files are stored in a shared pool of computer resources on the Internet, accessible from any computer. Users do not download and install applications on their own device or computer; all processing and storage is maintained by the cloud server. The latest commercial uses promote file storage and access. For example, a person may store files from his computer onto a cloud service provider, such as Dropbox. The cloud system allows him to access his files from any computer by logging onto his cloud server. A cloud user may permit shared access to his files by designating users. Thus, similar to peer-to-peer networks, once a person allows access to his files, others may see them at any time. Unlike peer-to-peer networks, private cloud services require that a person designate who may have shared access.

The cloud is just the latest battleground between law enforcement and child pornographers. The ability of child pornographers to use cloud computing for their wares has already been recognized. While some cloud providers are employing filtering techniques to suppress access to illegal

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113 Exum, supra note 48, at 6; Pornography Industry Is Larger than the Revenues of the Top Technology, CY TALK BLOG (Jan. 1, 2010), http://blog.cytalk.com/2010/01/web-porn-revenue/.


117 See Mell & Grance, supra note 114.

118 See id. at 3.

119 See id.
images, there is a growing concern the cloud will provide deeper cover for pornographers.\textsuperscript{120} At the same time, cloud technology is beginning to raise possession and distribution questions.\textsuperscript{121}

### III. THE LINES BLUR

As file-sharing networks have proliferated, participants in the child pornography industry can no longer be defined by terms suited for a bricks-and-mortar world rather than a virtual world. We need to consider more fundamentally whether the problem is not just the piecemeal growth of offenses and enhancements, but whether the activities prohibited no longer have meaningful distinctions in the Internet age.

In the late 1970s when investigative reporters first exposed the child pornography market, it was clear who fell into the categories of transporters, distributors, and receivers (possession was not yet a crime).\textsuperscript{122} For example, the defendant in \textit{New York v. Ferber} was the owner of an adult bookstore and knowingly sold films of underage boys masturbating.\textsuperscript{123} Once sold, those films were distributed and were no longer available for Ferber to resell.\textsuperscript{124} In contrast, take the person today who uploads a child pornography video to a peer-to-peer network and then leaves his file open. The video is never depleted; even if someone downloads it, the original is still available for further downloads. As the following discussion explores, the ramifications of this new technology are causing a collapse of easily definable offenses and a swell of fresh defense challenges.

#### A. Receiving vs. Possessing

Let us compare the defendant in \textit{Osborne v. Ohio}\textsuperscript{125} to a contemporary possessor. Clyde Osborne was convicted of violating an Ohio statute that barred the possession of child pornography after police found four photographs of child


\textsuperscript{121} See infra notes 213–15 and accompanying text.

\textsuperscript{122} FINAL REPORT, supra note 4, at 603–04.

\textsuperscript{123} 458 U.S. 747, 751–52 (1982).

\textsuperscript{124} See id.

\textsuperscript{125} 495 U.S. 103 (1990).
pornography in a desk drawer in the bedroom of his house.\textsuperscript{126} The appellant testified a friend brought the pictures to his home.\textsuperscript{127} It appears Osborne was charged only with the possession offense.\textsuperscript{128} Contrast Osborne with the defendant in \textit{United States v. Davenport}, in which government agents found hundreds of images and videos of child pornography on the defendant's computer.\textsuperscript{129} The defendant was indicted on one count of receiving child pornography and on one count of possessing child pornography.\textsuperscript{130} He pled guilty and was sentenced to seventy-eight months in prison for each count, to run concurrently.\textsuperscript{131}

On appeal of the district court's denial of his motion to withdraw his guilty plea, the defendant argued the sentence on both possession and receipt violated his Fifth Amendment double jeopardy right because the two statutory provisions proscribe the same conduct.\textsuperscript{132} As the defendant claimed, "It is impossible to 'receive' something without, at least at the very instant of 'receipt,' also 'possessing' it." \textsuperscript{133} The Ninth Circuit conducted a \textit{Blockberger} analysis\textsuperscript{134} test and found that the receipt provision did not require proof of any additional elements beyond those required by the possession provision, and therefore, the

\textsuperscript{126} \textit{Id.} at 139.
\textsuperscript{127} \textit{Id.}
\textsuperscript{128} \textit{Id.} at 106–07.
\textsuperscript{129} 519 F.3d 940, 972 (9th Cir. 2008).
\textsuperscript{130} \textit{Id.}
\textsuperscript{131} \textit{Id.}
\textsuperscript{132} \textit{Id.} at 942–43. The Fifth Amendment's Double Jeopardy Clause guarantees that no person shall "be subject for the same offence to be twice put in jeopardy of life or limb." U.S. CONST. amend. V.
\textsuperscript{133} \textit{Davenport}, 519 F.3d at 943.
\textsuperscript{134} Blockburger v. United States, 284 U.S. 299, 304 (1932). The \textit{Blockburger} Court stated that if "the same act or transaction constitutes a violation of two distinct statutory provisions, the test to be applied to determine whether there are two offenses or only one, is whether each provision requires proof of a fact which the other does not." \textit{Id.} In determining whether two statutory provisions are punishing the same conduct, the courts first look to congressional intent. Absent clear intent to punish the defendant under two provisions, it is presumed that the legislature does not intend to impose two punishments for the same offense. \textit{See} Rutledge v. United States, 517 U.S. 292, 297 (1996). Nevertheless, the presumption against allowing multiple punishments for the same crime may be overcome if there is a clear indication of legislative intent to allow courts to impose them. \textit{See} Missouri v. Hunter, 459 U.S. 359, 368–69 (1983); Albernaz v. United States, 450 U.S. 333, 344 (1981); United States v. Bobb, 577 F.3d 1366, 1371 (11th Cir. 2009).
government could not charge defendant with both offenses.\(^\text{135}\) The court acknowledged that prior to 1998, when Congress changed the requisite number of images for a possession charge from three or more images to any number of images, prosecution for violating both provisions was permissible because of the variance in the number of images needed for prosecution of receipt versus possession.\(^\text{136}\) The court reasoned that the older statutory language would allow for multiple convictions, but the amended language made the possession crime fall in as a lesser-included crime of the receipt of child pornography.\(^\text{137}\)

Other courts have agreed with Davenport’s reasoning that the prohibition against double jeopardy bars multiplicitous charges of receipt and possession when a person downloads child pornography from the Internet.\(^\text{138}\) The remedy is to vacate the lesser offense,\(^\text{139}\) which still highlights a difficulty with the present statutory scheme—the receipt charge that remains has a mandatory five-year minimum sentence.\(^\text{140}\) Nevertheless, many courts have distinguished the Davenport line of cases and have

\(^{135}\) *Davenport*, 519 F.3d at 947. The receipt statute requires that pornographic material be “shipped or transported in . . . interstate . . . commerce by any means, including by computer,” while the possession law states the pornography need only be “produced using materials that have been . . . shipped or transported in . . . interstate . . . commerce.” Compare 18 U.S.C. § 2252A(a)(2)(A) (2012) with § 2252A(a)(5)(B). The Davenport court found that because possession’s nexus requirement can be met in one of two ways and receipt’s nexus requirement is one of those two ways, possession is a lesser included offense of receipt. *Davenport*, 519 F.3d at 944-45.

\(^{136}\) *Davenport*, 519 F.3d at 946-47; see supra Part I.C. In a change that was meant to demonstrate a “zero tolerance” policy toward child pornographers, Congress amended the possession offense in 1998 to ban possession of even one image, whereas previous legislation limited the offense to three or more images. See 18 U.S.C. § 2252A(a)(5)(B). Instead it gave defendants an affirmative defense if they possessed fewer than three images. *Id.* § 2252A(d).

\(^{137}\) *Davenport*, 519 F.3d at 944-45. The court did recognize that an affirmative defense was only applicable to the possession provision but stated affirmative defenses are not considered elements of the crime for Blockburger purposes. Accord United States v. Miller, 527 F.3d 54, 72 (3d Cir. 2008).


\(^{139}\) See, e.g., *Schaff*, 838 F. Supp. 2d at 1380-81; *Cunningham*, 2010 WL 3808853, at *1; *Pomarico*, 2010 WL 4608423, at *2.

\(^{140}\) See 18 U.S.C. § 2252A(b)(1).
upheld convictions for both receipt and possession when the government asserts that its charges are different for image downloads. For example, in United States v. Bobb, the defendant's convictions and sentences were based on activities that occurred on two different dates. The evidence at trial established the defendant received child pornography by downloading files from a pornographic website, and on another date, he possessed over 6,000 additional images. Accordingly, the Eleventh Circuit, while agreeing with the Davenport line of reasoning, upheld the defendant's convictions, finding that the government introduced evidence sufficient to convict him of distinct offenses.

With defendants using computers to obtain quantities of images via the Internet, it appears quite easy for the government to fashion a case in a manner to avoid double jeopardy violations by basing the receipt count on different images than the possession count. Yet, it is questionable whether such action is appropriate when the statutes themselves no longer reflect clear divisions of activity. It is outmoded to find, as some courts have, that those who traffic in child pornography by receiving it "are more directly tied to the market for such products" and the abuse of children necessary for that market than are possessors.

When the person engages in one act and thereby commits two crimes, the stated rationale for highly divergent punishments is dubious.

141 577 F.3d at 1369-70.
142 Id. at 1368-69.
143 Id. at 1375. When multiple images are found, courts have held that these images may not be the basis of multiple counts of the same offense. See, e.g., Polouizzi, 564 F.3d at 155. But see United States v. Flyer, No. CR 05-1049 TUC-FRZ, 2006 WL 2590459, at *5 (D. Ariz. Sept. 7, 2006). Therefore, the 6,000 images resulted in one count of possession. The number of images, however, is a sentencing enhancement. See supra notes 56-58 and accompanying text.
145 See United States v. Myers, 355 F.3d 1040, 1042-43 (7th Cir. 2004); accord United States v. Davenport, 519 F.3d 940, 951 (9th Cir. 2008) (Graber, J., dissenting) ("[T]he statutory provisions are directed toward different harms."); United States v. Grosenheider, 200 F.3d 321, 332-33 (5th Cir. 2000).
146 It is, of course, possible to inadvertently receive child pornography and then consciously choose to keep it. In that instance, the person would be guilty only of possession. See United States v. Watzman, 486 F.3d 1004, 1009-10 (7th Cir. 2007).
If we look at these cases in the context of the development of the child pornography laws, we can see the genesis of the original distinctions since possession was not initially covered and receipt was initially thought of as part of the commercial trade; these variables have disappeared. The Commission recognized this as early as 1990 when it tried to join the receiving and possessing offense Guidelines, a move roundly rejected by Congress.\footnote{When possession was federally outlawed in 1991, Congress directed the Commission to establish sentencing Guidelines for the new possession offense. 2009 COMMISSION REPORT, supra note 3, at 19. Initially, the Commission amended the Guidelines by moving the receipt offense to the new possession guideline because it determined that “receipt is a logical predicate to possession.” Id. It distinguished possession and simple receipt from receipt with intent to traffic. Id. This change lasted less than one month because of strong congressional objection to the reduced penalty for receiving child pornography. Id. at 20–22. Thus, separate Guidelines existed for trafficking offenses and possession offenses until 2004, when the Commission consolidated them. Id. at 42.} Additionally, in its 1996 Report to Congress, the Commission detailed that some courts were sentencing receipt cases as possession cases because there was little difference in the perceived seriousness of the offenses.\footnote{2009 COMMISSION REPORT, supra note 3, at 29–30.} The offense Guidelines were eventually combined, but this created a new problem—certain enhancements previously limited to the trafficking offenses now apply to simple possession cases.\footnote{Id. at 49; see supra notes 44–45 and accompanying text.}

When a person can receive and possess images with a few clicks of a mouse, the overlap in the offenses is obvious.\footnote{See 2012 COMMISSION REPORT, supra note 3, at 326–27 (recommending that the sentences for receipt and possession be aligned).} A child is harmed because the image is circulated, but the offender cannot be said to be more entrenched in the market by his receipt than by his possession of the image.

### B. Distributing vs. Possessing

The conflation of offenses is further complicated because distribution is both an offense and a sentencing enhancement to receipt and possession charges.

1. Distribution as an Offense

Peer-to-peer file-sharing, only popularized in the last few years, has dramatically altered the collecting of child pornography. It has also led to defendants being charged and
convicted of both distributing and possessing child pornography. For example, in *United States v. Schaffer*, a defendant downloaded images and videos from a peer-to-peer network and stored them in a shared folder on his computer, which was accessible to others.\(^{151}\) Arguing that he merely left open his shared file, the defendant sought to have his conviction for distribution set aside.\(^{152}\) The Tenth Circuit rejected his contention, noting that he freely allowed access to his computerized stash of images and videos, knowing that others could download his stash.\(^{153}\) The court made an analogy to a self-serve gas station reasoning that the gas station owner who advertises his product need not actively pump gas to be in the business of distributing it.\(^{154}\) Similarly, it reasoned that the knowing passive distribution of child pornography from a shared network was sufficient to sustain the conviction.\(^{155}\)

Recently, some courts have recognized the overlap between offenses caused by technology. The Third Circuit, in *United States v. Grober*, affirmed a sentence that substantially deviated from the Guidelines in a case where the defendant traded via the Internet a number of images of child pornography.\(^{156}\) Charged with transporting, receiving, and possessing child pornography, the defendant pled guilty.\(^{157}\) The district court ruled this was a "typical downloading" case, and sentenced him to sixty months imprisonment—the mandatory minimum—rather than the Guideline amount of 235 to 293 months.\(^{158}\) Rejecting the government's appeal of the sentence, the Third Circuit found that the deviation was appropriate because it agreed that the case "center[ed] on personal possession of illicit images obtained on

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\(^{151}\) 472 F.3d 1219, 1222 (10th Cir. 2007).

\(^{152}\) Id. at 1223.

\(^{153}\) Id.

\(^{154}\) Id. at 1223–24.


\(^{156}\) See 624 F.3d 592, 595, 611 (3d Cir. 2010).

\(^{157}\) Id. at 595–96.

\(^{158}\) Id. at 596, 598–99.
line, and involving no production or distribution other than noncommercial bartering,” notwithstanding the defendant’s guilty plea on the transporting and receiving counts.  

2. Distribution as Sentencing Factor

The category collapse among the child pornography offenses is striking when we look at the courts’ struggle with the meaning of the enhancement variables, particularly when images are distributed through file-sharing programs. From the outset, the Guidelines included an increase to the base level applicable to trafficking offenses if an image was distributed. It later distinguished between distributing in exchange for money or other “things of value” and distributing without any gain. Courts have interpreted the phrase “thing of value” to mean pornographic images a person actively trades over a peer-to-peer network. Even if the person only downloads images, he can meet the “thing of value” distribution enhancement if he knows others have access to his images through the shared network. Merely getting faster download speeds, a crucial design function of a peer-to-peer network, also constitutes a “thing of value.” Thus, a number of courts held that using a peer-to-peer network warrants a per se five-level distribution enhancement. Other courts apply only a lesser two-level enhancement when a defendant uses a peer-to-peer network. One court...
acknowledged either enhancement could apply—a troubling overlap because there appears to be no rhyme or reason to the choice.\footnote{167}

To rectify the problem, some courts have cut back on a per se approach and have ruled the issue should be decided on a case-by-case basis.\footnote{168} This solution has created its own issues because courts have allowed the enhancement with little direct proof of knowing distribution. Some courts have inferred knowledge based on the level of sophistication of the computer user.\footnote{169}

Most troubling is judicial use of a “willful blindness” standard to impose the distribution enhancement. For example, in 2010, the Eighth Circuit upheld a finding that the defendant’s conduct warranted a distribution enhancement when he downloaded images onto Limewire, a peer-to-peer program.\footnote{170} The court rejected the defendant’s contention that he did not know his computer was equipped to distribute.\footnote{171} It reasoned that “the purpose of a file sharing program is to share, in other words, to distribute. Absent concrete evidence of ignorance—evidence that is needed because ignorance is entirely counterintuitive—a fact-finder may reasonably infer that the defendant knowingly employed a file sharing program for its intended purpose.”\footnote{172} The implications of this court’s reasoning cannot be understated. A willful blindness standard could drastically increase a person’s punishment and, in today’s age, may impact every user of a peer-to-peer program. Furthermore, as new sharing platforms are created, more and more individuals will be sharing information, whether they are aware or not.\footnote{173} Criminality of such conduct must depend on more than a legal tool such as willful blindness.

\begin{footnotes}
\footnote{167} See Estey, 595 F.3d at 843.
\footnote{168} See id. at 843–44; Dodd, 598 F.3d at 451.
\footnote{169} See, e.g., United States v. Bastian, 603 F.3d 460, 466 (8th Cir. 2010).
\footnote{170} See Dodd, 598 F.3d at 451–52. As there was no evidence that defendant received anything of value to warrant the five-level enhancement, the government sought a two-level enhancement. Id. at 451.
\footnote{171} See id. at 451–52.
\footnote{172} Id. at 452; accord United States v. Durham, 618 F.3d 921, 932 (8th Cir. 2010) (finding that defendant established actual ignorance); cf. United States v. DuFran, 430 F. App’x 855, 857–58 (11th Cir. 2011); United States v. Layton, 564 F.3d 330, 335 (4th Cir. 2009).
\footnote{173} See infra notes 213–17 and accompanying text.
\end{footnotes}
Finally, courts are holding that defendants who use file-sharing programs are ineligible for any decrease in the base level offense originally passed by the Commission for simple receipt offenses with no proof of distribution.\textsuperscript{174} For example, in 2011, the Seventh Circuit noted it would be frivolous for a defendant who used a file-sharing program to argue for a two-level decrease.\textsuperscript{175} As the use of peer-to-peer networks continues to grow, it will cause a de facto elimination of this decrease.

As courts increasingly differ on what actions qualify for upward and downward sentence adjustments when a person uses a peer-to-peer network to obtain child pornography, the courts' actions are in danger of appearing arbitrary. For example, when calculating the sentence for a person convicted of possession, receipt, and distribution of child pornography via a peer-to-peer network, the sentencing court would have to use different base levels for each offense, and, in addition to other enhancement calculations, decide the applicability of the distribution sentencing factor, with the following possibilities: decrease by two, increase by two, or increase by five. Such discretion is arbitrary when it is not based on a reasoned calculation of the harm a defendant has inflicted, but rather on outmoded categories of offenses.

C. Transporting vs. Possessing

Peer-to-peer file-sharing has also resulted in defendants being charged with transporting child pornography when they leave their network open. In a case virtually indistinguishable from \textit{Shaffer},\textsuperscript{176} prosecutors chose to charge a defendant with transporting child pornography rather than distributing it.\textsuperscript{177} The same use of a peer-to-peer network now exposes a defendant to charges of transporting, distributing, receiving, and possessing child pornography.

As technology evolves, so too should the law. We should not have de facto and unintentional changes in offenses and sentences. For example, when the Commission combined the trafficking and possessing Guidelines, it exposed possessors to distribution enhancements because of sharing networks. In

\begin{footnotesize}
\begin{enumerate}
\item See 2009 COMMISSION REPORT, \textit{supra} note 3, at 48.
\item United States v. Armes, 415 F. App'x 729, 730 (7th Cir. 2011).
\item 472 F.3d 1219 (10th Cir. 2007).
\item United States v. Schade, 318 F. App'x 91, 93 (3d Cir. 2009).
\end{enumerate}
\end{footnotesize}
addition, the same network use has essentially eliminated the two-level receiving decrease. As the Commission moves forward with its review, it must assess whether these changes were intentional and whether they result in appropriate sentences.

IV. RECOMMENDATIONS

Political implications for members of Congress should they appear to be soft on child pornographers means statutory changes may be difficult to enact; nevertheless, these recommendations are made with a view of at least helping to shape a discussion of these issues. Employing a harm principle gives a starting point for addressing current offenses and sentencing controversies. As the landmark child pornography cases have stated repeatedly, users of child pornography cause the depicted child to be shamed and humiliated by the knowledge people are looking at the images of the child being abused.\footnote{178}{See supra notes 16–19, 29 and accompanying text. Other harms are that users contribute to the market for child pornography that could lead to abuse of additional children, and that children can be “groomed” into permitting acts of abuse against them if they see images and perceive that the behavior is acceptable. See generally Rogers, supra note 13.}

This humiliation is exacerbated by the Internet. As one court described, “[T]he child victims suffer not only from the initial physical sexual abuse of their tormentors, but also from the knowledge that their degradation will be repeatedly viewed electronically into near perpetuity by a large audience.”\footnote{179}{United States v. C.R., 792 F. Supp. 2d 343, 357 (E.D.N.Y. 2011); see also New York v. Ferber, 458 U.S. 747, 756–60 (1982).}

When adult abuse survivors become aware that the images of them as children are circulating on the Internet, they become even more mistrustful of people and have more of a sense of helplessness and hopelessness.\footnote{180}{C.R., 792 F. Supp. 2d at 382.} As one psychologist explained, “In childhood, they knew that they were physically invaded and they couldn’t stop it. As adults, they know they’re visually invaded and they can’t stop it. . . . So, knowing that [the images are] out there just deepens the pathology that they’re already suffering from.”\footnote{181}{Id.}

Beyond psychological injury, a more fundamental harm is suffered. Even if the child was unaware the image was circulated, those who trade in and view child pornography harm
the child’s inherent right not to be viewed in this fashion. There is harm each and every time an image is circulated. From where does this human dignity right derive? This right goes beyond tort theories on invasion of privacy.\textsuperscript{182} We can look to more analogous situations for answers.

A. The Fundamental Harm in Images

Images are so powerful that, in diverse settings, special rules apply to them. For example, the Geneva Convention requires that prisoners of war ("POWs") be treated humanely, and this includes banning photographs of them that subject them to humiliation or public curiosity.\textsuperscript{183} Some courts have construed the term "public curiosity" to ban photographs that are released for the purpose of humiliating those depicted.\textsuperscript{184} Under Articles 13 and 14 of the 1949 Geneva Conventions III Relative to the Treatment of Prisoners of War, POWs are also "entitled in all circumstances to respect for their persons and their honour."\textsuperscript{185} Even non-POWs, or so-called enemy combatants, are entitled to protection against "outrages upon personal dignity, in particular

\textsuperscript{182} The issue of restitution to victims from pornographers under 18 U.S.C. § 2259(b)(1) (2012), the mandatory restitution statute, has been the subject of recent court decisions and has split circuit courts. Some circuit courts have held that possessors are too remote to be the proximate cause of a victim’s injury and therefore no damages are recoverable. See, e.g., United States v. Aumais, 656 F.3d 147, 154–55 (2d Cir. 2011). Others have held that the restitution statute has only a limited proximity requirement. See, e.g., In re Amy Unknown, 636 F.3d 190, 198 (5th Cir. 2011), aff’d in part and vacated in part, 701 F.3d 749 (5th Cir. 2012). The impact of these cases on the current issue is doubtful as they deal with remuneration; criminal culpability dependent on outmoded statutory classifications raises wholly separate issues. While on the surface one might argue that if a possessor is not liable for damages, then he should not be criminally liable, the Supreme Court has long laid to rest the constitutionality of punishing possessors. See Osborne v. Ohio, 495 U.S. 103, 111–14 (1990). In fact, even in Aumais, the court upheld the possessor’s sentence of 121 months. Aumais, 656 F.3d at 156–57.


\textsuperscript{184} ACLU v. Dep’t of Def., 543 F.3d 59, 90 (2d Cir. 2008), vacated on other grounds, 130 S. Ct. 777 (2009).

\textsuperscript{185} Geneva Convention Relative to the Treatment of Prisoners of War, supra note 183, art. 14.
humiliating and degrading treatment." One need only think of the disgrace over the Abu Ghraib incident to see the impact of photographs. It was not just the humiliating treatment itself; it was the taking and dissemination of photographs of the humiliation that was contemptible. The same criticism was made following the release of photographs of Saddam Hussein after his capture.

Death scene and autopsy photographs are also subject to dissemination restrictions. In *National Archives and Records Administration v. Favish*, the Supreme Court ruled that families are entitled to limit disclosure of death-scene images of their loved ones. The case involved death-scene photographs of Vincent Foster, Jr., deputy counsel to President Clinton, and the respondent’s Freedom of Information Act (“FOIA”) request for the photos. In denying the FOIA request, the Court noted FOIA Exemption 7(C) excuses from disclosure information compiled by law enforcement if its production “could reasonably be expected to constitute an unwarranted invasion of personal privacy.” Foster’s sister explained her opposition to the release of the photos: “I was horrified and devastated by [a] photograph [already] leaked to the press. [E]very time I see it, . . . I have nightmares and heart-pounding insomnia as I visualize how he must have spent his last few minutes and seconds of his life.”

She opposed the disclosure of the disputed pictures because

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191 *Favish*, 541 U.S. at 160 (internal quotation marks omitted).

192 Id. at 167 (alterations in original) (citation omitted) (internal quotation marks omitted).
"Undoubtedly, the photographs would be placed on the Internet for world consumption" and would renew media interest in her brother's death.\textsuperscript{193}

The Court agreed that FOIA exemption 7(C) extended beyond the person depicted to his family members and banned release of the images, unless the person requesting the information establishes a significant public interest in the information sufficient to override the family's privacy interest in the images.\textsuperscript{194} It found that the respondent failed to meet this burden.\textsuperscript{195} Tort law also limits dissemination of non-newsworthy death and autopsy images.\textsuperscript{196} They are deemed to be inherently humiliating and distressful for the family and can subject the releasers to damages.\textsuperscript{197}

Other courts ban the release of private information even if identities are protected. In \textit{Northwestern Memorial Hospital v. Ashcroft}, the government sought medical records of patients who received late-term abortions to aid the government's constitutional challenge to the Partial-Birth Abortion Act of 2003.\textsuperscript{198} In rejecting the government's demand, the Seventh Circuit ruled it would be an invasion of the privacy rights of anonymous patients.\textsuperscript{199} The court's reasoning is particularly relevant to the victims of child pornography:

Imagine if nude pictures of a woman, uploaded to the Internet without her consent though without identifying her by name, were downloaded in a foreign country by people who will never meet her. She would still feel that her privacy had been invaded. The revelation of the intimate details contained in the record of a late-term abortion may inflict a similar wound.\textsuperscript{200}

Dissemination of images for no worthy purpose inflicts harm on the depicted person. The absolute lack of any worthy reason to trade in child pornography establishes the inherent harm to the dignity of the child depicted. The person inflicting the abuse captured in a pornographic image is obviously deserving of

\textsuperscript{193} Id. (internal quotation marks omitted).
\textsuperscript{194} Id. at 172.
\textsuperscript{195} Id. at 175. See generally Calvert, supra note 190.
\textsuperscript{196} Calvert, supra note 190, at 313.
\textsuperscript{197} See, e.g., Catsouras v. Dep't of Cal. Highway Patrol, 104 Cal. Rptr. 3d 352, 357 (Ct. App. 2010), modified, 2010 Cal. App. LEXIS 253 (Ct. App. 2010).
\textsuperscript{198} 362 F.3d 923, 924 (7th Cir. 2004); see also 18 U.S.C. § 1531 (2012).
\textsuperscript{199} \textit{Nu. Mem't Hosp.}, 362 F.3d at 929.
\textsuperscript{200} Id.
substantial punishment as a child molester. The producer of the image is guilty of documenting the infliction of sexual abuse. The harm that others further down the chain inflict lacks physicality, but they too inflict distinct, actual harm on the child whose image is disseminated and collected.

B. Statutory and Guideline Changes

Under current federal law, producers are punished separately and most severely.\footnote{201 18 U.S.C. § 2251 (2012) (minimum fifteen year, maximum thirty year sentence).} Others in the pornography network are differentiated by activity,\footnote{202 Id. § 2252A.} and the law treats attempts to commit prohibited offenses equally to the completed offenses.\footnote{203 Id. §§ 2251(e), 2252A(b)(1), 2252A(b)(2).} As explained in Part III, however, when a person uses file-sharing technology, the categories of prohibited activities involving child pornography no longer reflect crisply defined actions. Thus, transporters, distributors, and possessors often are one and the same, engaging in identical activity. We can define them as “traders.”

In place of the current statutory scheme, a more valid delineation would be among producers, traders, and seekers of child pornography. Since it is the producer who usually inflicts the most harm, he should have the most severe sentence; traders also harm the child, but typically to a lesser degree because they are not involved in any direct sexual abuse of a child. One possibility is that all activities involving the trading of child pornography have the same statutory base sentence. This is in keeping with fundamental harm theory because the depicted children are damaged by any and all proliferation of their images. Starting at the same base level, the Commission could then establish enhancements or departures to distinguish among the traders and their individual culpability. For example, one suggestion is that the first person to upload images be punished more severely than later downloaders.\footnote{204 Exum, supra note 48, at 39.} Similarly, one who runs a chat room or bulletin board is more culpable than those who visit those sites.
A caveat to placing all traders in the same base category is that it should not automatically increase sentences for possessors—which would occur if the current divisions between distributors, receivers, and possessors are made into one. Instead, Congress needs to reexamine the current mandatory sentence structure against the backdrop of the blurring of offenses that exists with current technology.\textsuperscript{205}

Those who have not yet obtained images should be punished lesser still since they have not yet inflicted harm.\textsuperscript{206} This suggestion is in keeping with the basic tenet of attempt laws that do not punish attempts as severely as completed crimes.\textsuperscript{207} Thus, the statutes which now contain the same punishment for those attempting to commit child pornography could be parsed so the attempt is punished at a lower level. The attempts are more comparable to the child pornography crimes of pandering and belong more appropriately grouped together.\textsuperscript{208}

As previously discussed in Part III, many scholars and judges have criticized the Guideline enhancement for number of images possessed.\textsuperscript{209} Troy Stabenow has argued that punishing a defendant based on the number of images he or she has accumulated is akin to punishing a habitual marijuana smoker for every marijuana cigarette he or she has smoked over the past several years.\textsuperscript{210} This analogy is wrong in that it does not acknowledge the offender has violated each child's right not to be viewed in a pornographic image. The collection continues to exist, unlike the dissipated marijuana, and the defendant who knowingly accesses large amounts of child pornography is harming large numbers of children. A better approach suggested by the Sentencing Commission would focus on the extent to which an offender is involved in online child pornography

\textsuperscript{205} Even the Justice Department agrees. See Wroblewski, supra note 72, at 3–6.
\textsuperscript{208} 18 U.S.C. § 2252A(a)(3)(B). In keeping with the thesis of this Article, since the pandering offense is an inchoate crime, Congress should re-examine its sentence, which is currently a mandatory five-year minimum. Id. § 2252A(b)(1).
\textsuperscript{209} See supra notes 56–58 and accompanying text.
communities. In addition, the use-of-computer enhancement does not adequately relate to the harm suffered by the child depicted and should be eliminated. The need to reform the laws becomes more urgent as technology continues its unabated growth. For example, cloud computing is becoming more and more popular. Shared file functions that are available may make cloud computing analogous to peer-to-peer networking, but on a much larger platform. Given this technology, a person who collects child pornography by storing it on a cloud server may also be a distributor of the image by virtue of the sharing function of his cloud files. Yet, since the images are stored on a remote server, some have questioned whether and who possesses them.

Similarly, as wireless routers are now increasingly used to access the Internet, a person who fails to lock his router with a password could potentially be charged if his router is used by someone to transmit child pornography. The analogy would be to peer-to-peer file sharers who fail to opt out of the sharing function. Taken to its logical extreme, the same willful blindness standard the courts have used in the file-sharing cases could apply to owners of unprotected routers. Of course, there is a difference in that a third person is hacking into an unprotected wireless network, as opposed to being part of a file-sharing network, but one who knows and fails to protect his router from unauthorized access is leaving himself open to charges.

See supra text accompanying notes 73–75.
See supra text accompanying note 77; supra note 178.
See supra notes 114–16 and accompanying text.
Id.
See Jean-Loup Richet, FBI Child Porn Raid a Strong Argument for Locking Down WiFi Networks, INFO. SYSTEMS RES. BLOG (June 2, 2011), http://www.information-systems-research.com/blog/201106/02/fbi-child-porn-raid-a-strong-argument-for-locking-down-wifi-networks. No charges were brought against the unwitting host. Id.
Cf. Global-Tech Appliances, Inc. v. SEB S.A., 131 S.Ct. 2060, 2068–69 (2011) (discussing willful blindness standard applied in patent infringement case). There is a difference in that a person is hacking into an unprotected wireless network, as opposed to being part of a file-sharing network, but whether this is legally significant is untested as yet.
CONCLUSION

Fears that the Internet would be a boon to child pornographers have been realized as the number of images permanently circulating in cyberspace has ballooned into the millions. Yet, to be effective in punishing this flood, the law must accurately delineate the culpable conduct. The divisions among traders of child pornography are no longer accurate; and, therefore, the differentials in punishment have lost their underpinnings. The current sentencing controversy surrounding child pornographers is merely the tip of the iceberg of the larger need to revamp the offenses themselves.

Optimally, Congress should revise the child pornography statutes to reflect technology; however, most likely this is politically unfeasible. Nevertheless, failure to act will allow the current debate to harden positions with negative consequences. Harsh sentences, such as life imprisonment for possession of child pornography, as one court imposed recently, are counterproductive to the ostensible rationale for punishment. Rather than deterring the prohibited activity, it causes some to question the validity of the offense itself or minimize its gravity. At the other extreme, to equate the harm inflicted by sexual predators in producing pornographic images of children, with that of downstream traders, is equally ineffective. The proposed framework, at the very least, may allow judges to properly tailor punishments and give the Commission guidance in revamping its Guidelines.

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