

# DIGITAL EVIDENCE - THE GATHERING STORM

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**R<sup>3</sup>** Digital Forensics  
[www.r3forensics.com](http://www.r3forensics.com)

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## DIGITAL FORENSICS – PROLIFERATION OF DIGITAL EVIDENCE

- Recover “deleted” files
- Get Stuff user never “saved”
  - Swap file or Page file
  - Hiberfil.sys
  - Temporary Internet Files
- Help you understand what occurred on the device
  - Registry files
  - Link Files
  - JumpList
  - USBStor
  - Windows Timeline
  - SQLite Database examination
- IOT
  - Watches, Alexa, Car Devices and on and on
- Extract Data from Mobile Devices
  - Tablets
  - Smart Phones
- Capture Web Based Data
  - Gmail
  - Dropbox, Box etc.
- Collect Social Media Data
  - Facebook
  - Instagram
  - Twitter
  - Etc.

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## “It May Be Recoverable”

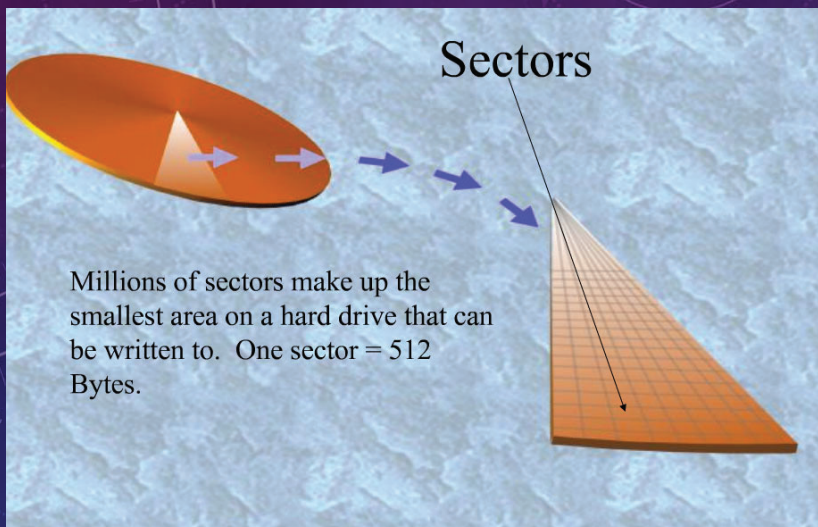
- “01010010” “00110011”
- Stored as a series of magnetic charges on disk platters and external media.



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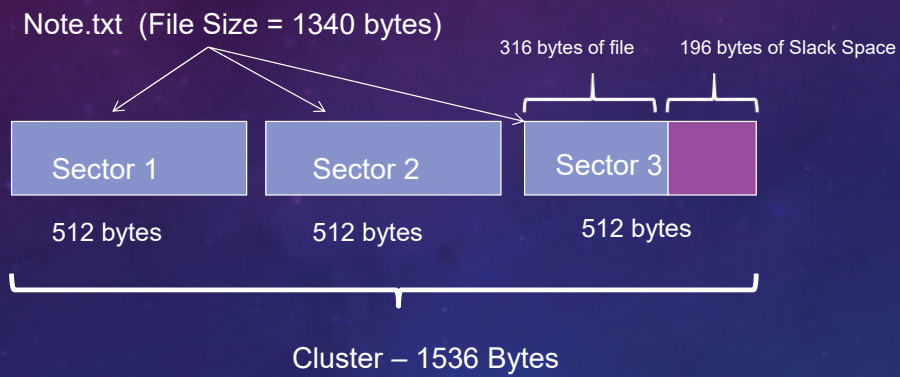
## A “Sector” is



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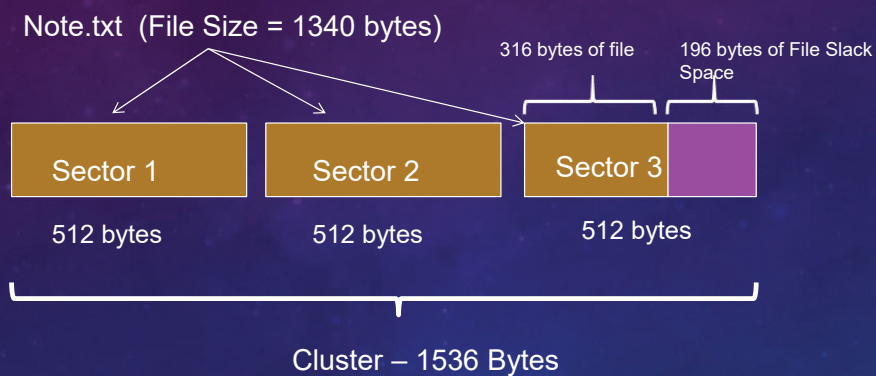


# WHY DELETED FILES MAY BE RECOVERABLE



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# NOTE.TXT IS DELETED BY THE USER



The data is still there in the exact same place. The File System just marks the location of Note.txt as available or Unallocated Space

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Title search: Digital Evidence: The Gathering Storm

Also available as part of the eCourse

[eSupplement to the 36th Annual School Law Conference](#)

First appeared as part of the conference materials for the  
33<sup>rd</sup> Annual Technology Law Conference session

"Digital Evidence: The Gathering Storm"