

## The Future of Cyber Crime and Forensics

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- Digital Forensics is maturing and evolving
- Big data is dragging us into increasing levels of automation
- Humans are not going to be made completely redundant anytime soon

- Rise of organized and criminal organizations
- Nation state backed cyber crime
- Cyber crime & cyber warfare

# Digital Forensics



- The Zero Generation: The Mesozoic era
- The First Generation: The Enhanced Hex Editor Era
- The Second Generation: The Database Era
- The Third Generation: Digital Forensics Software as a Service

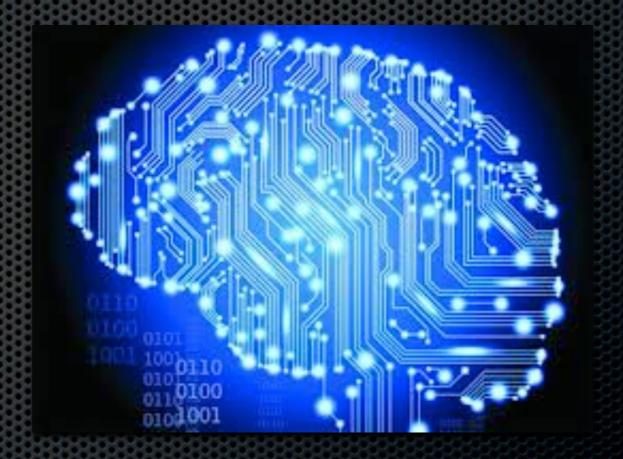
\*\* Huber, E. (2012) A fistful of dongles - Blog

- Ad Hoc Phase
- Structured Phase
- Enterprise Phase

\*\* Charters, I. (2009). The evolution of digital forensics - (creative commons)

- Vendor dependent
  - Acquisition
- Data dependent
  - Analysis
- Client dependent
  - Decision/Analytics

#### Big Data



### Human brain can store about 2.5 petabytes of information



- Big Data Dimensions
  - Volume
  - Velocity
  - Variety

- 2.5 Quintillion bytes of data produced/day!
- 90% of the data in the world today was created in the last 2 years!

#### Now What?

- Automated scripts
- Expert systems
- Statistical tools
- Machine learning