Geo-location Forensics On Mobile Devices

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• More Mobile Devices
• More Smart Devices
• More Apps
  – Things Changed
Geo-location Data

- Satellite
  - GPS/A-GPS
  - GLONASS
- Cellular Network
  - MCC, MNC, LAC, CellID
- WLAN Network
  - IP Address
  - MAC
iOS Devices

- iPod Touch 5\textsuperscript{th} generation
- iPhone 3G / 3Gs / 4 / 4s / 5
- iPad with both WIFI and Cellular
• consolidated.db
• GPS data in Exif
• Cache.cell & Cache.wifi
  – Can found in most Android devices
• Photo with location data
Mobile Apps

- Google Latitude
- Google Map
- SNS Apps
  - Twitter
  - Facebook
  - Sina Weibo
- JPEG without Latitude & Longitude
  - Unique Background
  - Compare Manually
  - Try different Search Engines
Q & A