Digital Vellum

Vint Cerf

Feb 2014
Exabytes and Counting
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Select: All, None, Read, Unread, Starred, Unstarred

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About Twitter

Where did the idea for Twitter come from?

Jack Dorsey had grown interested in the simple idea of being able to know what his friends were doing. Specifically, Jack wondered if there might be an opportunity to build something compelling around this simple status concept. When he brought the idea up to his colleagues, it was decided that a prototype should be built.

Twitter was funded initially by Obvious, a creative environment in San Francisco, CA. The first prototype was built in two weeks in March 2006 and launched publicly in August of 2006. The service grew popular very quickly and it soon made sense for Twitter to move outside of Obvious. In May 2007, Twitter Incorporated was founded.
Reach the world with Cisco's WebEx web conferencing.
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-- Mark Phillips,
Vice President of Strategy, StarCite
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Internet-enabled Devices
22\textsuperscript{nd} Century Doris Kearns Gooding

• A Team of Rivals (Lincoln)
  • How did she reconstruct the dialog??
  • 100 Libraries and repositories w/physical correspondence

• What will the 22\textsuperscript{nd} C. Doris Kearns Gooding find?

• What will the National Archives be able to offer?

• What will our descendants know of our 21st Century?
  • Correspondence, entertainment, advertising, education, jobs, family life,…
Challenges

• Interpretation of bits
• Intellectual Property Rights
• Generalized encoding, self-bootstrapping
• Legal frameworks, exceptions for preservation
• Source or executable code
• Bankruptcies, sunsetting of apps, OS, hardware
• Self-describing software and formats
• Capacity for BIG DATA
Digital Vellum

- Preservation of physical bits and meta-data
- Preservation of the application and OS software
- Preservation of machine functionality descriptions
- Special copyright provisions for preservation practices
- Development of formal descriptions for data structures? Including semantics?
- Digital repositories, Digital Object Identifiers, Digital Object Architecture (CNRI)
- “Pulling on the thread” to reconstruct renderings and interpretations.