



*NIH Big Data to
Knowledge (BD2K)*

Open Access Grand Challenges *Here Be Monsters*

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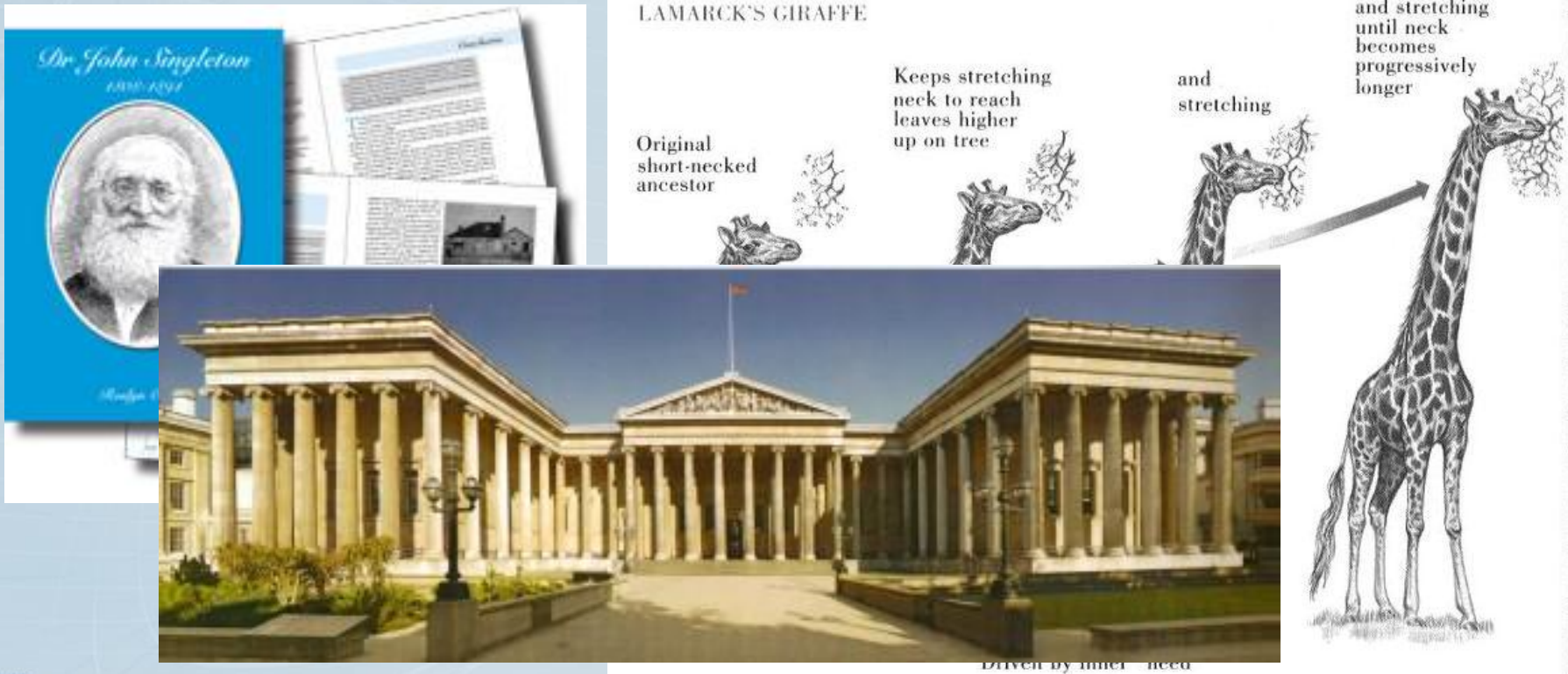
RECODE

January 16, 2015



Research Knowledge Sharing

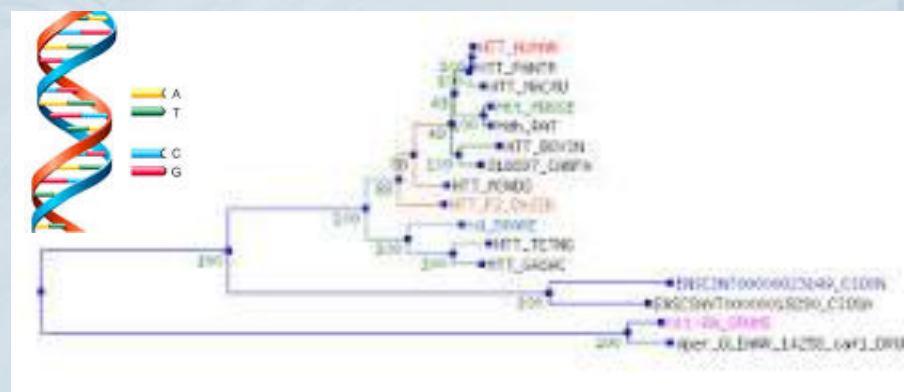
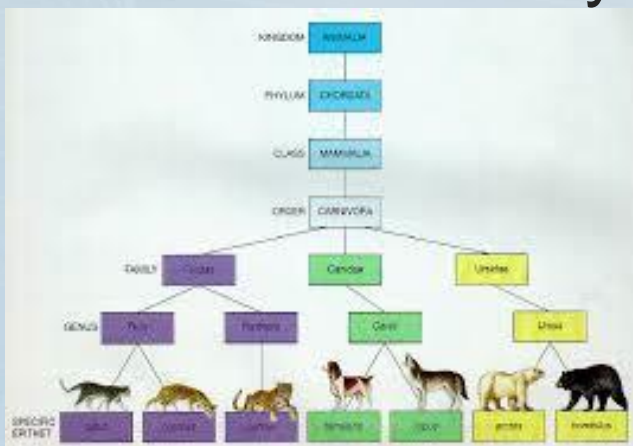
- Exchanging ideas and facts is a basic tenet of research



Digital Revolution

- Is a change of technology, not intent.
- Researchers eagerly adopt new technologies that benefit them.

Taxonomy → Phylogenetics



Why is Digital Open Access Hard?

- Changing from a known academic economy to an unproven one. (change is hard)
- Now: publications = success
 - We all know how to “win”
- Future: multiple valid academic outputs
 - Publications, data, software...



Here Be Monsters



The New Research Economy:

- Infrastructure: Make it technically possible to share and attribute multiple academic contributions.
 - Infrastructure and tools to support discovery, attribution, and access to data and software.
 - Citations and metrics for data and software, as well as publications
- Social Change: Updated Incentives
 - Tenure and Promotions Committees (Carrots)
 - Funder Expectations (Sticks)



Leap of Faith

Pioneer or Dinner?



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