

# an open question

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# the power of open

- open Internet
- open source
- open content
- open data
- open standards



# open Internet

- email
- Web
- Flickr
- podcasts
- YouTube
- Skype



# open source

- the open Internet
  - BIND, Sendmail, Apache, Firefox
  - championed open standards



# open source

- the open Internet
  - BIND, Sendmail, Apache, Firefox
  - championed open standards
- Linux
  - Google, Facebook, Twitter
  - Android (600,000 activations/day)
  - 91% of top 500 supercomputers



# open content

- Project Gutenberg
  - 36,000 ebooks
- Wikipedia
  - 19 million articles



# open content

- Project Gutenberg
  - 36,000 ebooks
- Wikipedia
  - 19 million articles
- Flickr
  - 5 billion pictures (2010)
- YouTube
  - 8 years of video content uploaded every day



# open data

- Human Genome Project
  - produced US\$800 billion of economic output



# open data

- Human Genome Project
  - produced US\$800 billion of economic output
- OpenStreetMap
  - still early days
  - EU spent €9.5bn on gathering public sector data, and collected €68bn selling and licensing it (closed)
  - US spent €19bn and realised €750bn (open)



# open standards

- creates level playing-field for procurement
- prevents lock-in
- crucial for open source



# open Internet

- key feature: don't need permission to innovate



# open Internet

- key feature: don't need permission to innovate
- key threat: loss of Net neutrality



# open Internet

- key feature: don't need permission to innovate
- key threat: loss of Net neutrality
- key action: new anti-discrimination law for ISPs, mandating equality for Internet packets unless requested and paid for by customer



# open source

- key feature: ability freely to re-use and build on existing code



# open source

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- key threat: software patents



# open source

- key feature: ability freely to re-use and build on existing code
- key threat: software patents
- key action: clarify that software is not patentable in \*any\* circumstances, even when there is a "technical effect"



# open content

- key feature: ability to freely re-use and build on existing works



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- key threat: chilling effect of Draconian copyright enforcement (Website blocking, criminalisation, ACTA etc.)



# open content

- key feature: ability to freely re-use and build on existing works
- key threat: chilling effect of Draconian copyright enforcement (Website blocking, criminalisation, ACTA etc.)
- key action: repeal/abandon disproportionate measures (HADOPI, Digital Economy Act, ACTA)



# open data

- key feature: ability freely to aggregate existing datasets



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# open data

- key feature: ability freely to aggregate existing datasets
- key threat: European database "sui generis" right
- key action: repeal European database legislation (Directive No. 96/9/EC)
  - NB 1995 EC study



# open standards

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- key threat: "pseudo-open" standards that employ Fair, Reasonable and Non-Discriminatory, (FRAND) licensing



# open standards

- key feature: creates a level playing field
  - key threat: "pseudo-open" standards that employ Fair, Reasonable and Non-Discriminatory, (FRAND) licensing
  - key action: ensure all open standards are strictly Restriction/Royalty-Free (RF); revert to EIF 1.0 wording
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# closing down openness

- openness and sharing have ancient roots – “the commons” etc.
- openness 2.0 is very young – began in 1970s and 80s with Project Gutenberg and GNU
- despite – \*because\* – of its huge successes, under attack
- much easier to close down something open than to open something closed



open question

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