Mass digitization and digitization projects at National library of Florence

Giovanni Bergamin Biblioteca Nazionale Centrale Firenze



Some definitions ...

Mass digitization of books (MDB) =
conversion of materials (books) on an
industrial scale (not just on a large-scale);
conversion of whole libraries without making
a selection of individual materials

source: Karen Coyle

Two main MDB projects:

Google Books



Internet Archive (Open Content Alliance)





Building a digital archive of global content for universal access

Some notes on Google Books_1

Started in 2004
Planned end of the project 2020
The Google Books aim is the Google aim:

"organize the world's information and make it universally accessible and usable" --- so the content of all published books has to be searchable together with the content of all web pages

Some notes on Google Books_2

"Just how many books are out there?"

Books of the world, stand up and be counted! All 129,864,880 of you.

Thursday, August 05, 2010 at 8:26 AM Posted by Leonid Taycher, software engineer

How many books have already been digitized by Google Books? 25-30M (non ci sono statistiche ufficiali)

Numbers ...



A famous debate on GB in 2005_1

(A VIEW FROM EUROPE)



Jean-Noël Jeanneney

Quand Google défie l'Europe

> Plaidoyer pour un sursaut

> > UNE NUITS

Essai



A famous debate on GB in 2005_2

Jean-Noël Jeanneney, historian and former President of National Library of France wrote in 2005 that:

"The promise of Google is enchanting [...]: everyone with access to the Internet can soon view the recorded memory of the ages in the palm of their hand and search this universe in a fraction of a second" ... however ...

A famous debate on GB in 2005_3

"We are faced with several possible dangers with respect to: works of various cultural heritages that have fallen into the public domain, the list of priorities will likely weigh in favor of Anglo-Saxon culture; works still under copyright, of which only excerpts, or "snippets," will be offered for the time being, the weight of American publishers may be overwhelming; journals and books disseminating ongoing research, the dominance of work from the United States may become even greater than it is today"

11 years later ...

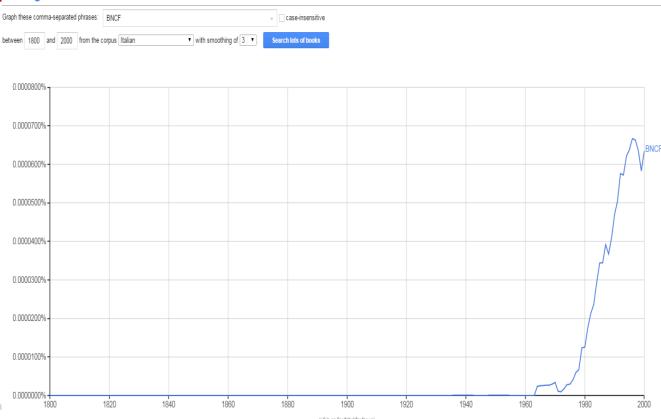
according to "reliable sources" the highest percentage of the digitized books is in English (close to 50% out of 450 languages of books in GB)

The interest of Google for non English languages is growing

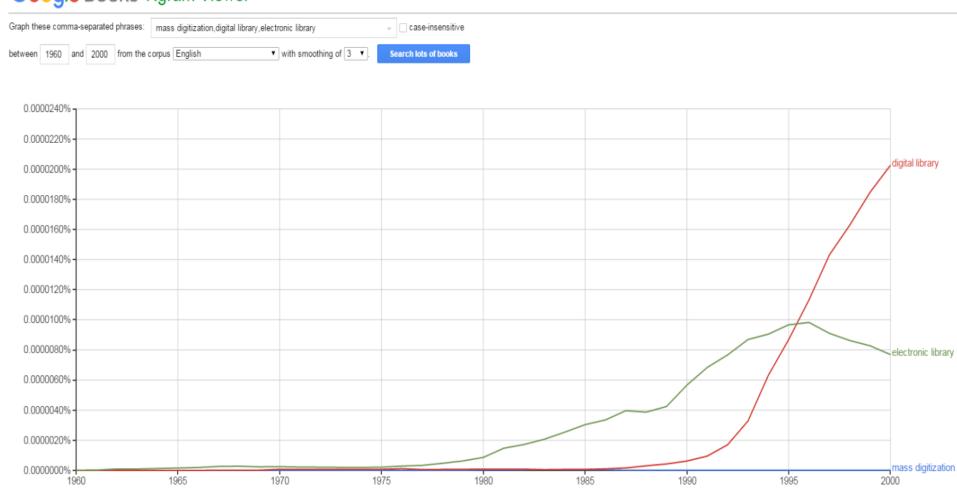
ex. g. Ngram Viewer

Google Books Ngram Viewer

Ngram service now available also for texts in: German, French, Italian, Spanish, Russian, Hebrew, Chinese From 2009 year after year they are adding new languages



Google Books Ngram Viewer



(click on line/label for focus)

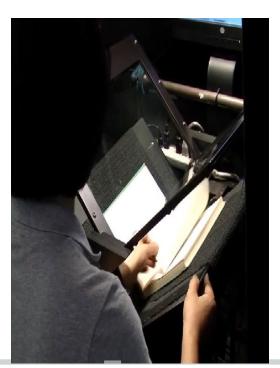
Somes notes on Internet Archive (OCA)_1

- The Open Content Alliance (OCA) is a consortium of organizations contributing to a permanent, publicly accessible archive of digitized texts.
- Its creation was announced in October 2005 by Yahoo!, the Internet Archive, the University of California, the University of Toronto and others.
- Scanning for the OCA is administered by the Internet Archive, which also provides permanent storage and access through its website

Somes notes on Internet Archive (OCA)_2

More than 8,7 million of texts available up to now







Some differences





private owned (1 company)
huge amount of
resources available for
digitization
research and development

consortium between companies and nonprofit institutions depends on donations and self-financing (limited resources available)

Digitization projects at BNCF (DPB)

started in the early 1990s when the size of HD was 40 Megabytes (and there was no WWW)







DPB: faithful copy or searchable text? - 1

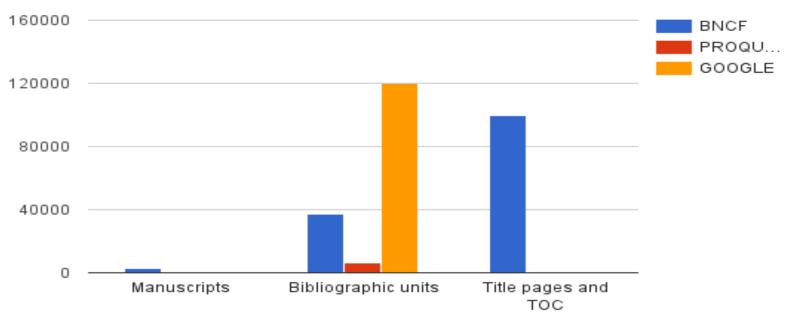
Early projects aim:
enrichment of bibliographic records through
the digitization of title pages, table of
contents etc (OCR)

DPB: faithful copy or searchable text? - 2

Following projects aim: faithful copy for manuscripts, ancient books, maps etc

DPB results





Google Books and Proquest EEB at BNCF - 1

EEB GB *range:* -1700 range: 1701-1875 ebooks with "liquid" and faithful copy searchable text national project **BNCF** project costs: books circulation costs: none (inside lib.)

Google Books and Proquest EEB at BNCF - 2

FFB GB scanning location: outside lib. (Italy) lib. outcomes: GRIN and free worldwide and accessibility

scanning location: inside outcomes: "master" files free access from Italian IP access fee outside and royalties for BNCF

MD problems (Google)

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limitations, ex. g.:
    size of books
    foldouts (from 2016 it will be possible)
note:
    MPOB Modified Process for older books pre 1700
    (color and text)
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Il gesuitismo svelato Parigi: presso Pagnerre editore, 1846. 75 45 p.; 16 cm. a poca Monografia - Materiale a stampa - Pubbl. in: fr - Lingua: itscala , e alla me-Bibl. Nazionale Centrale Di Firenze Gli utenti registrati possono accedere ai servizi della biblioteca scegliendo il nume no: nelle uu, a trii Collocazione: 2505.19 o staff. Inventario: CF990969624 1 esemplare ontate o Collocazione: 2537.16 tte. Inventario: CF000740820 1 esemplare ni: pic-Collocazione: 2984.13 Inventario: CF000802165 1 esemplare. alcor).

Digitalizzato nel progetto Google-BNCF (CF 000740820) , talora



stoffa di

piede,

distanza dalla scab, e che acceniiatio alla medesima. Basellin. Predellino: nelle carrozze — a duu, a trii pass o pastad, o staff, a due, a Ire montate o ballenti o palelle. Basgerilt. Calcolini: piecole calcóle (calcar). Basen. Basilio: stoffa di filo di colone , talora mista anco con filo di canape, che ha qualclie col fruelapiú fina e molto. : qui' fa rinchiuso in baccello canape, che ha qualche somiglianza col frusta-

ung (sgorbia) erboso , cra.s so, più molto. facile a pulrefarsi che non a disseccarsi. Basyinnoeura. Fava minuta (Vicia faba minori. , ove appender i ume (temm) bislunga, sebiaccia-/» ciappa), riè a

col bellico

una delle estremità

MD and copyright (orphan works etc.)





BNCF and Wikisource

2014 Agreement between BNCF and Wikimedia Italia for Wikisource starting point: public domain book digitized by **BNCF** aim: improve access to digitized books results: crowdsourced text correction in Wikisource (the free library that anyone can improve)

How it works

Manuale 150 ricette di cucina di guerra.djvu/77

Questa pagina è stata trascritta, formattata e riletta.

— 71 **—**

144. - Pomodori secchi.

Durante la stagione preparare, seccandoli al sole, dei pomodori, che prima saranno stati tagliati per metà e fatti sgocciolare, mettendoli a strati con sale in una cesta. Seccati che siano si conservano in una cesta o infilati a corona. Per servirsene metterli prima a bagno in acqua tiepida.

Manuale di 150 ricette di cucina di guerra

Cremona: Tipografia sociale, 1916.

73 p.; 22 cm

Ed. di 1100 esempl. num.

BN 1917 1990 .

1. Guerra mondiale 1914-1918 - Tecnologie

Monografia - Materiale a stampa - Pubbl. in: it - Lii

Bibl. Nazionale Centrale Di Firenze

Gli utenti registrati possono accedere ai servizi della biblioteca sceglier

Collocazione: 16539.13

Inventario: CF990875850 1 v.



144. - Pomodori secchi.

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Closing remarks and open questions

MDB: Is there an alternative to Google Books? cooperation with IA and Wikisource 140 years buffer (orphan works and cooperation with publishers)

Thank you for your patience

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