WWW ... and everybody else
WWW ... mobile
WWW ... in the flow [1]

scale
• massive redundancy, cloud computing, ...
• global participation ... North America 17% ... Asia 39.5%  [2]

transparency
• RSS, Atom, Atom Publishing Protocol, REST, RDF, [ORE], ...
  • PMH; Z39.50; MARC; ...;

network effect
• sites improve as traffic and use increases
• emergent user behavior not predetermined
WWW ... in the flow

scale
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transparency
• RSS, Atom, Atom Publishing Protocol, REST, RDF, [ORE], ...
  • PMH; Z39.50; MARC; ...;

network effect
• sites improve as traffic and use increases
• emergent user behavior not predetermined

• emergent user behavior trumps services
W W W ... in the flow

user centric
- personal mgmt of content, messages, & processes
- desktop, laptop, tablet, mini, PDA, iPhone, Android, ...

small pieces, loosely joined
- remix, mash-up, mesh-up, ...

data is the intell inside
small pieces, loosely joined
• remix, mash-up, mesh-up, ...
  • granular accessibility trumps services

user centric
• personal mgmt of content, messages, & processes
• desktop, laptop, tablet, mini, PDA, iPhone, Android, ...

W W W ... in the flow
... continued

data is theintel inside
user centric
- personal mgmt of content, messages, & processes
- desktop, laptop, tablet, mini, PDA, iPhone, Android, ...

small pieces, loosely joined
- remix, mash-up, mesh-up, ...
- granular accessibility trumps services

data is the *intel inside*
**PageRank**

From Wikipedia, the free encyclopedia

**PageRank** is a link analysis algorithm that assigns a numerical weighting to each element of a hyperlinked set of documents, such as the World Wide Web, with the purpose of "measuring" its relative importance within the set. The algorithm may be applied to any collection of entities with reciprocal quotations and references. The numerical weight that it assigns to any given element $E$ is also called the PageRank of $E$ and denoted by $PR(E)$.

The name PageRank is a trademark of Google. The PageRank process has been patented (U.S. Patent 6,285,999). The patent is not assigned to Google but to Stanford University.
PageRank

PageRank is a link analysis algorithm that assigns a numerical weighting to each element of a hyperlinked set of pages, such as the World Wide Web, with the purpose of "measuring" its relative importance within the set.

The numerical weight that it assigns to any given page is referred to as its PageRank, and can be documented as part of the page itself or stored internally for each page, along with a list of all other pages linked to that page.

The name PageRank is a trademark of Google. The PageRank process has been patented (U.S. Patent 6,285,999). The patent is not assigned to Google but to Stanford University.

The link is:
- one-way
- un-named
WWW ... web of documents

... implications ??
Bach partitas for violin
• interested in editions, performances, arrangements, commentary, ...

search: au:bach ti:partitas in WorldCat
Bach partitas for violin

- interested in editions, performances, arrangements, commentary, ...

search: au:bach ti:partitas in WorldCat
- ca. 300 results ... 30 web screens @ cites10 per screen

<table>
<thead>
<tr>
<th>1.</th>
<th>Partitas</th>
<th>by Johann Sebastian Bach</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Language: English Type: Sound Recording : Music: Compact disc</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Publisher: France : Erato, 1989</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>2.</th>
<th>Six partitas</th>
<th>by Johann Sebastian Bach</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Language: English Type: Musical Score : Printed music</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Publisher: New York, Edwin F. Kaimus, 1989</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>3.</th>
<th>Partitas No. 3, 4 &amp; 5</th>
<th>by Johann Sebastian Bach, Wolf Harden</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Language: English Type: Internet Resource : Music: Compact disc</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Publisher: [Hong Kong]: Novox Music Library, [2004]</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>4.</th>
<th>Sonatas &amp; partitas</th>
<th>by Johann Sebastian Bach, Shmuel Elbaz</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Language: English Type: Sound Recording : Music: Compact disc</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Publisher: [Biser Shavei]: Shmuel Elbaz, 2004</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>5.</th>
<th>JS Bach partitas</th>
<th>by Johann Sebastian Bach, Maria Tipo</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Language: English Type: Sound Recording : Music: Compact disc</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Publisher: [France]: EMI Classics France, 2004</td>
<td></td>
</tr>
</tbody>
</table>

| 6. | The sonatas & partitas for unaccompanied violin | by Johann Sebastian Bach, Poul Galbraith |
Bach partitas for violin
- interested in editions, performances, arrangements, commentary, ...

search: au:bach ti:partitas in WorldCat
- ca. 300 results ... 300 results ... 30 web screens @ cites 10 per screen

1. Partitas
   by Johann Sebastian Bach
   Language: English

2. Six partitas
   by Johann Sebastian Bach
   Language: English
   Publisher: New York, Edwin F. Kalmus, 1936.

3. Partitas No. 3, 4 & 5
   by Johann Sebastian Bach
   Language: English
   Publisher: [Hong Kong] : Naxos Music Ltd., 1989.

4. Sonatas & partitas
   by Johann Sebastian Bach
   Language: English

5. JS Bach partitas
   by Johann Sebastian Bach
   Language: English

6. The sonatas & partitas for unaccompanied violin
   by Johann Sebastian Bach, Paul Galbraith

11. The six partitas
    by Johann Sebastian Bach, Glenn Gould
    Language: English

12. BACH, J.S. 6 Partitas, BWV 825-830
    by Johann Sebastian Bach, Tenor Pinnock, Naxos Digital Services
    Language: English
    Publisher: Hong Kong, Naxos Digital Services Ltd., 2005.

13. Tatjana Nikolajeva plays Bach partitas
    by Johann Sebastian Bach, Tatjana Nikolajeva
    Language: English

14. Partitas & Toccatas
    by Johann Sebastian Bach, Glenn Gould
    Language: English
    Publisher: Columbia, CBS Records (Masterworks), 1973-1981.

15. Sonatas and partitas for solo violin
    by Johann Sebastian Bach, Jutta Fischer
    Language: English
    Publisher: Philips Classics, 2003.

16. BACH, J.S. Partitas: Nos. 1-2, BWV 825-826
    by Johann Sebastian Bach, Wolfgang Rubsam, Naxos Digital Services
    Language: English
    Publisher: Hong Kong, Naxos Music Library, 2004.

17. BACH, J.S. Partitas: Nos. 5-6, BWV 829-830
    by Johann Sebastian Bach, Wolfgang Rubsam, Naxos Digital Services
    Language: English
    Publisher: Hong Kong, Naxos Music Library, 2004.

18. BACH, J.S. Partitas: Nos. 3-4, BWV 827-828
    by Johann Sebastian Bach, Wolfgang Rubsam, Naxos Digital Services
    Language: English
    Publisher: Hong Kong, Naxos Music Library, 2004.

19. Sonaten und Partiten Sonatas and partitas - Sonates et partitas
    by Johann Sebastian Bach
Bach partitas for violin

- interested in editions, performances, arrangements, commentary, ...

search: au:bach ti:partitas in WorldCat

- ca. 300 results ... 30 web screens @ 10 per
<table>
<thead>
<tr>
<th>#</th>
<th>Title</th>
<th>Year</th>
<th>Publisher</th>
<th>Description</th>
</tr>
</thead>
</table>
Bach partitas for violin

- interested in editions, performances, arrangements, commentary...

search: au:bach ti:partitas in WorldCat

- ca/ 300 results ... 30 web screens @ 10 per
That's one factor...
names are another ...
Names ... a rose is a rose is a rose

jaguar
Names ... a rose is a rose is a rose

\[ \text{jaguar} = 4a \ 61 \ 67 \ 75 \ 61 \ 72 \]

- the hex representation of the word jaguar in a computer’s memory
Names ... a rose is a rose is a rose

\[
jaguar = \begin{array}{c}
4a 61 67 75 61 72
\end{array} \quad ... \text{But}\]
Names ... a rose is a rose is a rose

\texttt{jaguar = 4a 61 67 75 61 72}
Names ... a rose is a rose is a rose

jaguar = 4a 61 67 75 61 72

XK series, in production since 1996
E-Type (UK) or XK-E (US)
mfg 1961 to 1974
etc.

John Giannandrea,
CTO, Metaweb
Names ... a rose is a rose is a rose

\textit{jaguar} = 4a 61 67 75 61 72

XK series, in pro-
dctn since 1996

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mftg 1961 to 1974

etc.

Atari video
game console

Macintosh
OS X 10.2

John Giannandrea,
CTO, Metaweb
Names ... a rose is a rose is a rose

jaguar = 4a 61 67 75 61 72

Macintosh
OS X 10.2

E-Type (UK) or XK-E (US)
mfg 1961 to 1974

Fender electric guitar,
introduced in 1962

XK series, in pro-
dctn since 1996

etc.

Philadelphiabased
singer/songwriter
Jaguar Wright

heavy metal band formed
in Bristol, England. Dec 1979

Atari videogame console

John Giannandrea,
CTO, Metaweb

... a rose is a rose is a rose

Jaguar = 4a 61 67 75 61 72

LTD.
Names ... a rose is a rose is a rose

jaguar = 4a 61 67 75 61 72

- Macintosh OS X 10.2
- type 140 Jaguar class fast attack craft [torpedo], Germany
- XF10F prototype swing-wing fighter, early 1950s, Grumman
- Anglo-French ground attack aircraft
- Atari video game console
- Fender electric guitar, introduced in 1962
- Philadelphia-based singer/songwriter Jaguar Wright
- E-Type (UK) or XK-E (US) mfg 1961 to 1974
- etc.
- Heavy metal band formed in Bristol, England. Dec 1979
- XK series, in product since 1996

John Giannandrea, CTO, Metaweb
Names ... a rose is a rose is a rose

\[ \text{jaguar} = 4a \, 61 \, 67 \, 75 \, 61 \, 72 \]

- **Macintosh OS X 10.2**
- **type 140 Jaguar class fast attack craft [torpedo], Germany**
- **Fender electric guitar, introduced in 1962**
- **Philadelphia-based singer/songwriter Jaguar Wright**
- **Atari video game console**
- **E-Type (UK) or XK-E (US) mfg 1961 to 1974**
- **DC Comics' Impact series, ... loosely based on Archie Comics' character**
- **XF10F prototype swing-wing fighter, early 1950s, Grumman**
- **heavy metal band formed in Bristol, England. Dec 1979**
- **Anglo-French ground attack aircraft**
- **The Jaguar is a superhero published by Archie Comics**
- **XK series, in pro-dctn since 1996**
- **etc.**

---

John Giannandrea, CTO, Metaweb
Names ... a rose is a rose is a rose

jaguar = 4a 61 67 75 61 72

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John Giannandrea, CTO, Metaweb
Names ... a rose is a rose is a rose

**jaguar** = 4a 61 67 75 61 72
what to do ... ?
web of documents

undifferentiated hypertext links pointing to pages

what to do ... ?
undifferentiated hypertext links pointing to pages

bibliographic records

what to do ... ?
a directed, labeled, multigraph model of knowledge

What is Freebase?
• community built
• freely available
• database of knowledge

an example of something to try ...
one example ...

Alfred Hitchcock directed

Laurence Olivier starred

Vivien Leigh

Rebecca (1940)

married

John Giannandrea, CTO, Metaweb [4]
Bach partitas ... revisited

Bach, Carl Philipp Emanuel, 1714-1788
Bach, Johann Christian, 1735-1782
Bach, Johann Sebastian, 1685-1750
Bach, Wilhelm Friedemann, 1710-1784

Sonaten und Partiten, violin, BWV 1001-1006

BWV 1001    Sonata, no. 1
             Adagio
             Fugue; arr.

BWV 1002    Partita, no. 1
             Partita, no. 1; arr.

BWV 1003    Sonata, no. 2

BWV 1004    Partita, no. 2
             Chaconne
             Chaconne; arr.

BWV 1005    Sonata, no. 3

BWV 1006    Partita, no. 3
             Preludio
             Preludio; arr.
Bach partitas ... revisited

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Bach, Johann Sebastian, 1685-1750
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Adagio
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BWV 1002  Partita, no. 1
Partita, no. 1; arr.

BWV 1003  Sonata, no. 2

BWV 1004  Partita, no. 2
Chaconne
Chaconne; arr.

BWV 1005  Sonata, no. 3

BWV 1006  Partita, no. 3
Preludio
Preludio; arr.
Bach partitas ... revisited

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  - Fugue; arr.

- BWV 1002 Partita, no. 1
  - Partita, no. 1; arr.

- BWV 1003 Sonata, no. 2

- BWV 1004 Partita, no. 2
  - Chaconne
  - Chaconne; arr.

- BWV 1005 Sonata, no. 3

- BWV 1006 Partita, no. 3
  - Preludio
  - Preludio; arr.
Bach partitas ... revisited

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  - Adagio
  - Fugue; arr.

- BWV 1002 Partita, no. 1
  - Partita, no. 1; arr.

- BWV 1003 Sonata, no. 2

- BWV 1004 Partita, no. 2

- BWV 1005 Sonata, no. 3

- BWV 1006 Partita, no. 3
  - Preludio
  - Preludio; arr.

composed

includes

analyzed by

book
Bach partitas ... revisited

Bach, Carl Philipp Emanuel, 1714-1788
Bach, Johann Christian, 1735-1782
Bach, Johann Sebastian, 1685-1750
Bach, Wilhelm Friedemann, 1710-1784

Sonaten und Partiten, violin, BWV 1001-1006

- BWV 1001 Sonata, no. 1
  - Adagio
  - Fugue; arr.
- BWV 1002 Partita, no. 1
  - Partita, no. 1; arr.
- BWV 1003 Sonata, no. 2
- BWV 1004 Partita, no. 2
  - Chaconne
  - Chaconne; arr.
- BWV 1005 Sonata, no. 3
- BWV 1006 Partita, no. 3
  - Preludio
  - Preludio; arr.
Bach partitas ... revisited

Bach, Carl Philipp Emanuel, 1714-1788
Bach, Johann Christian, 1735-1782
Bach, Johann Sebastian, 1685-1750
Bach, Wilhelm Friedemann, 1710-1784

Sonaten und Partiten, violin, BWV 1001-1006

- BWV 1001: Sonata, no. 1
  - Adagio
  - Fugue; arr.
- BWV 1002: Partita, no. 1
  - Partita, no. 1; arr.
- BWV 1003: Sonata, no. 2
- BWV 1004: Partita, no. 2
- BWV 1005: Sonata, no. 3
- BWV 1006: Partita, no. 3
  - Preludio
  - Preludio; arr.

composed
includes
performed
Bach partitas ... revisited

Bach, Carl Philipp Emanuel, 1714-1788
Bach, Johann Christian, 1735-1782
Bach, Johann Sebastian, 1685-1750
Bach, Wilhelm Friedemann, 1710-1784

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  Fugue; arr.

BWV 1002 Partita, no. 1
  Partita, no. 1; arr.

BWV 1003 Sonata, no. 2

BWV 1004 Partita, no. 2

BWV 1005 Sonata, no. 3

BWV 1006 Partita, no. 3
  Preludio
  Preludio; arr.
Bach partitas ... revisited

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Fugue; arr.

BWV 1002 Partita, no. 1
Partita, no. 1; arr.

BWV 1003 Sonata, no. 2

BWV 1004 Partita, no. 2

BWV 1005 Sonata, no. 3

BWV 1006 Partita, no. 3
Preludio
Preludio; arr.
Works Composed -- Composer

Composition
Freebase Type Viewer

score, edition?
### Composition schema

A Composition is any musical composition, ranging from baroque symphonies to commercial jingles. A Composition may have multiple parts (which are... more)

#### Composition Properties

<table>
<thead>
<tr>
<th>Property Name</th>
<th>Data Type</th>
<th>Property Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Composer</td>
<td>Composer</td>
<td>The person or people who wrote the music for this composition.</td>
</tr>
<tr>
<td>Lyricist</td>
<td>Lyricist</td>
<td>If this composition includes words (e.g., pop songs, operatic arias, choral masses), the person or people who wrote the words.</td>
</tr>
<tr>
<td>Includes</td>
<td>Composition</td>
<td>Smaller compositions which are part of this one (e.g., movements of a symphony).</td>
</tr>
<tr>
<td>Part of</td>
<td>Composition</td>
<td>Larger compositions which incorporate this one (e.g., a symphony of which this is a movement).</td>
</tr>
<tr>
<td>Arrangements</td>
<td>Arrangement</td>
<td>Other compositions which are arrangements of this composition.</td>
</tr>
<tr>
<td>Recorded versions</td>
<td>Musical Track</td>
<td>Tracks which record this entire composition. (If a long composition, such as a symphony, are recorded as multiple tracks on an album, use &quot;Recorded as album&quot;).</td>
</tr>
<tr>
<td>Recorded as album</td>
<td>Musical Album</td>
<td>Albums which primarily or entirely consist of this composition (usually used for symphonies or other multi-part compositions).</td>
</tr>
</tbody>
</table>

#### Composition Topics

- Bridge Across Forever
- Sudrabá
- Outland: The Mne (The National Philharmonic Orchestra)
- Lemon Incest
- Shadows

#### Related Types

**Music Types**

- Musical Group Membership
- Musical Contribution
- Musical Album
- Musical Album Type

**Similar Types**

- Song
- Musical Track
- Topic
- Arrangement
- National Anthem
Bach partitas ... again

Unicorn … SIRSI Oracle

extract all things musical … type codes (mostly)

analyze entries by types of info

link compositions to their recordings

link composers to their recordings

link contributors (editors, etc.) to their editions

bring compositions (unique KE strings) into Freebase & link them to their composers

SONATEN UND PARTITEN VIOLIN BWV 001001-001006 PARTITA NO 000002

Sonaten und Partiten, violin, BWV 1004, Partita, no. 2...etc
Sonaten und Partiten, violin, BWV 1004, Partita, no. 2...etc
Sonaten und Partiten, violin, BWV 1004, Partita, no. 2...etc
Sonaten und Partiten, violin, BWV 1004, Partita, no. 2...etc
Sonaten und Partiten, violin, BWV 1004, Partita, no. 2...etc
Sonaten und Partiten, violin, BWV 1004, Partita, no. 2...etc
Sonaten und Partiten, violin, BWV 1004, Partita, no. 2...etc
Sonaten und Partiten, violin, BWV 1004, Partita, no. 2...etc

collapse multiple instances of each single knowledge entity into a single string

x 52
700 = 228,728
sound rec = 144,602
uniHead |t =68,803 (tag|=t=68,776)
w/ indicator02=2=64,335 (xcltd 4,468 not)
uniHead not|t=74,640 (|4=64,414, xcltd 10,226 not)
scores = 56,395
uniHead |t =11,900 (tag|=t=12,057)
w/ indicator02=2=8,032 (xcltd 3,868 not)
uniHead not|t=44,076 (|4=6,046, xcltd 38,027 not)
books = 27,731
uniHead |t =2,748 (tag|=t=2,772)
w/ indicator02=2=1,236 (xcltd 1,536 not)
uniHead not|t=24,062 (|4=1,046, xcltd 23,556 not)

not = need hand coding, so xcltd

---

org -- null 100
110 = 5,842 (2031=|k) +all w/245
is |k → |k =ttl incld |t _24x =alias (2031)
is |n +not |k → 110 =alias 245 =ttl (7)
is |t → 110 =auth |t =ttl _24x =alias (67)
not |k in |t +is fmt 2,6 → 110 =auth _24x = ttl (1702)
not |k in |t +is fmt 92 → 110 =prf! _24x = ttl (1,636)
ttl here may= collective album title !! wrks in 700 |t chk these!!
not |k in |t +not|4 +is fmt 92 → 110 =auth _24x = ttl (392)
!! hand check these !! (mixed 110=orgAuth & 110=prf)

---

meeting -- null 100
111 = 704 +all w/245
if |n → |n → |n → org = +24x = alias (19,750)
not |n +is |d → 111 =org; |d +ttl = (339)
not |n +not |d +is fmt =92 -> (24)
always: 24x = alias

---

series → xcltd for now
440 = 17,756 490 = 39,009
800 = 2,681 811 = 0
810 = 663 (0=|k) +604 w/ |t_uni_head
830 = 31,773 + 0 w/ |t_uni_head

excluded
600 = 35,224 +5,853 w/ |t_uni_head
610 = 4,026 (175=|k) +113 w/ |t_uni_head
611 = 171 + 0 w/ |t_uni_head
630 = 532 + 0 w/ |t_uni_head

excluded
222 = 0
241 = 94 = not
243 = 16 = not
246 = 18,988 =handCoding
247 = 4 = not
650 = 239,110 = not
655/6 =177 = not
69x = 14,510 = not
700 +sound+ score + books
700 +|t not Ind=2 (4,468 + 3,868 + 1,536)
700 not |t not |4 (10,226+38,027+23,556)
710 scr+bks |4 =prf 36 (prnt+sound mixed)
720 = 65 = not ( j advisor)
740 = 18,916 =handCoding
760/2 = 4 = not
770/2/3/6/7 = 11 = not
780/5/7 = 5 = not
79x = 650 = not
840/80 = 43 = not
960/2 = 186 = not

---

person
100 (142,915)

700 = 228,728
sound rec = 144,602
uniHead |t =68,803 (tag|=t=68,776)
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not = need hand coding, so xcltd

---

740 = 31,406
yes if analytic encoded (11,965)
(indicator2 = '2')
yes 240=Selections and   (525)
!! hand check these !!
count(740) >1 & indi02 <> 2

---

universal title -- null 100
130 = 946 +all w/245
24x =alias

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- "Prelude" from Partita No. 3 for Solo Violin
- Partita Wann wir in höchsten Noten sein, BWV Anh. 78
- Partitas, BWV 997, C minor
- Partitas, BWV 997, C minor, arr.
- Partitas, flute, BWV 1013, A minor
- Partitas, flute, BWV 1013, A minor, arr.
- Partitas, harpsichord, BWV 825, Bb major
- Partitas, harpsichord, BWV 825, Bb major, Allemande
- Partitas, harpsichord, BWV 825, Bb major, Menuet, no. 1
- Partitas, harpsichord, BWV 825, Bb major, Präludium
- Partitas, harpsichord, BWV 825-830
- Partitas, harpsichord, BWV 826, C minor
- Partitas, harpsichord, BWV 826, C minor, Rondeau
- Partitas, harpsichord, BWV 826, C minor, Sarabande
- Partitas, harpsichord, BWV 827, A minor
- Partitas, harpsichord, BWV 827, A minor, Gigue
- Partitas, harpsichord, BWV 828, D major
- Partitas, harpsichord, BWV 828, D major, Sarabande
- Partitas, harpsichord, BWV 829, G major
- Partitas, harpsichord, BWV 829, G major, Praeambulum
- Partitas, harpsichord, BWV 829, G major, Selections
- Partitas, harpsichord, BWV 830, E minor
- Partitas, violin, BWV 1004, D minor, Chaconne
- Partitas for keyboard
- Partite diverse sopra O Gott, du frommer Gott
- Partite diverse sopra Sei gegrüsset, Jesu güttig
- Präludium und Partita, harpsichord, BWV 833, F major
- Sarabande con partite, keyboard instrument, BWV 990, C major
- Sonaten und Partiten, violin
- Sonaten und Partiten, violin, BWV 1001-1006
- Sonaten und Partiten, violin, BWV 1001-1006, arr.
- Sonaten und Partiten, violin, BWV 1001-1006, Partita, no. 1
- Sonaten und Partiten, violin, BWV 1001-1006, Partita, no. 1, Double, no. 3
- Sonaten und Partiten, violin, BWV 1001-1006, Partita, no. 1, Sarabande
- Sonaten und Partiten, violin, BWV 1001-1006, Partita, no. 1, Tempo di borea
- Sonaten und Partiten, violin, BWV 1001-1006, Partita, no. 1, Tempo di borea, arr.
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- Sonaten und Partiten, violin, BWV 1001-1006, Partita, no. 2, Chaconne; arr.
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- Sonaten und Partiten, violin, BWV 1001-1006, Partita, no. 3; arr.
- Sonaten und Partiten, violin, BWV 1001-1006, Partita, no. 3, Gavotte en rondeau
- Sonaten und Partiten, violin, BWV 1001-1006, Partita, no. 3, Gavotte en rondeau, arr.
- Sonaten und Partiten, violin, BWV 1001-1006, Partita, no. 3, Preludio
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- Sonaten und Partiten, violin, BWV 1001-1006, Partita, no. 3, Selections; arr.
- Sonaten und Partiten, violin, BWV 1001-1006, Selections
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- Sonaten und Partiten. violin. BWV 1001-1006. Sonata. no. 1
- Sonaten und Partiten, violin, BWV 1001-1006. Sonata, no. 1; arr.
- Sonaten und Partiten, violin, BWV 1001-1006. Sonata, no. 1. Adagio
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- Sonaten und Partiten, violin, BWV 1001-1006. Sonata, no. 2
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- Sonaten und Partiten, violin, BWV 1001-1006. Sonata, no. 2. Andante; arr.
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<td>Josef Hofmann</td>
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<td>Frederic Lamond</td>
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<td>Ignace Jan Paderewski</td>
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**Chaconne : Bach transcribed**

- Jorge Bolet, 1
- Jorge Bolet
- Chaconne. Transcribed by Busor
- Chaconne, arr. by Brahms
- Paul Wittgenstein
  - Julian Bream plays Bach, Sor, Tu
  - Julian Bream
  - Bach piano transcriptions
  - Ferruccio Busoni
  - Nikolai Demidenko
Julian Bream plays Bach, Sor, Turina, Schubert
Julian Bream plays Bach, Sor, Turina, Schubert

by Julian Bream; John Williams; Johann Sebastian Bach; Fernando Sor; Joaquin Turina; Michael Tippett; Franz Schubert

Type: Musical CD; Chaccones; Multiple forms; Sonatas; Variations; No Linguistic Content
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WWW ... in the flow

**network effect**
- sites improve as traffic and use increases
- emergent user behavior not predetermined

- emergent user behavior trumps services

**small pieces, loosely joined**
- remix, mash-up, mesh-up, ...

- granular accessibility trumps services

**data is the intel inside**

"The coolest thing to do with your data will be thought of by someone else"
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“a directed, labeled, multigraph model of knowledge”

- community built
- freely available
- database of knowledge

data is the intel inside

“the coolest thing to do with your data will be thought of by someone else”
[1] *What is Web 2.0*

[2] *Internet world Stats*
   http://www.internetworldstats.com/stats.htm

[3] JISC, CRIG ... Common Repository Interface Group
   http://www.ukoln.ac.uk/repositories/digirep/index/CRIG

   http://video.google.com/videoplay?docid=-4335067027488641924

[5] Freebase Typeviewer
   http://dev.mqlx.com/~darin/ftv/

other Freebase URLs
- schema viewer
  http://mjtemplate.org/examples/schemas/
- schemas in browser view
  http://www.freebase.com/view/music#domain-schema
- parallax view
  http://mqlx.com/~david/parallax/
- MQL editor
  http://www.freebase.com/tools/queryeditor
- API, Acre, etc.
  http://www.freebase.com/make