



# Chronology Matters: Making Sense of Dates in Digital Collections

Digital Library Federation  
Spring 2007 / Pasadena, CA  
Joseph B. Dalton  
4.24.2007

# Does Chronology Matter?

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W.C. Dohm  
[i.e. Walter Dohm],  
**Princeton, 1890.**

# Dates Provide Background

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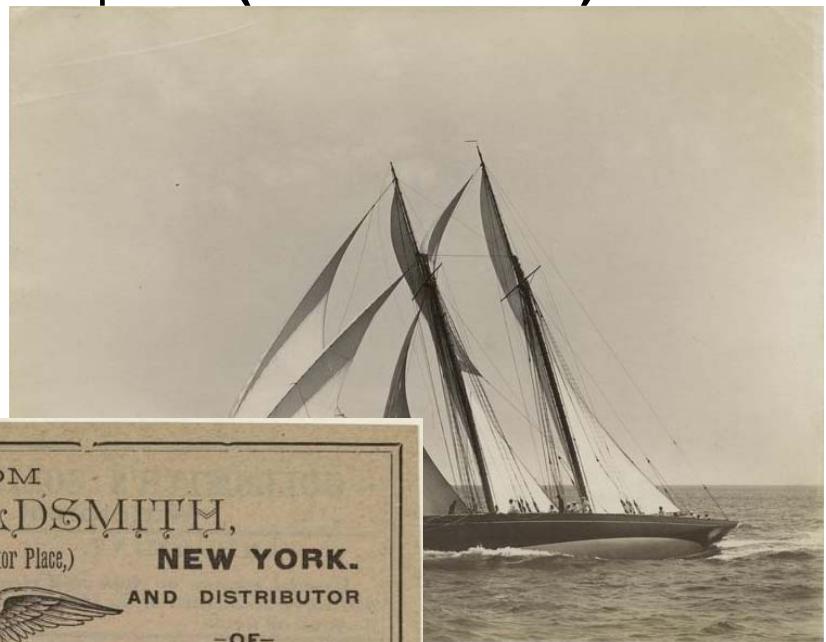


# Dates Give Context To Unrelated Objects



W.C. Dohm ...1890.

Iroquois. (Created 1890)



FROM  
JAMES GOLDSMITH,  
No. 744 Broadway, (Entrance on Astor Place,) NEW YORK.  
ORIGINAL AND DISTRIBUTOR  
INTRODUCER OF  
**FIBRE GOODS.**  
THE LATEST:  
**Solid Fibre & Lithoid**  
WATERPROOF COLLARS AND CUFFS.

ARTHUR	NILSSON	TOURO
12 TO 18½.	SIZES 7 TO 8½.	13½ TO 16½.

ca. 1890s #95 N.Y. PUBLIC LIBRARY  
Digitized Collection

Waterproof collars and cuffs. (ca. 1890)

# **What We'll Cover Today**

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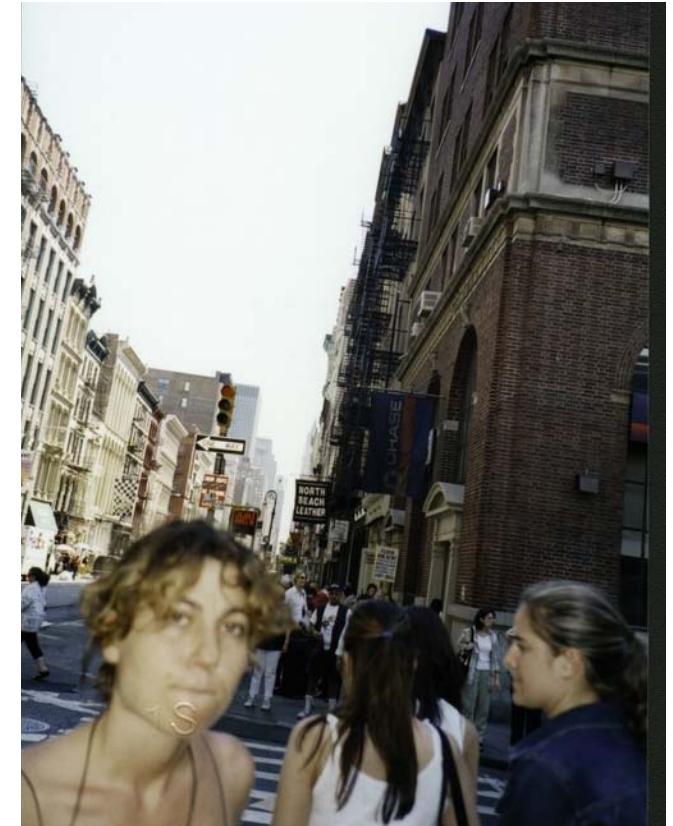
- **Background**
- **Problems – inherited and created**
- **Opportunities and (of course) challenges**

# Some NYPL Digital Gallery Numbers

- Date coverage is over broad range: 700s - 2001+
- Bulk of material (313,000 items) from 1800 - 1999
- 61 % of records have ANY date



**Created 764-770.** Two of The  
Million Prayer Towers ...  
Digital ID: 1501673



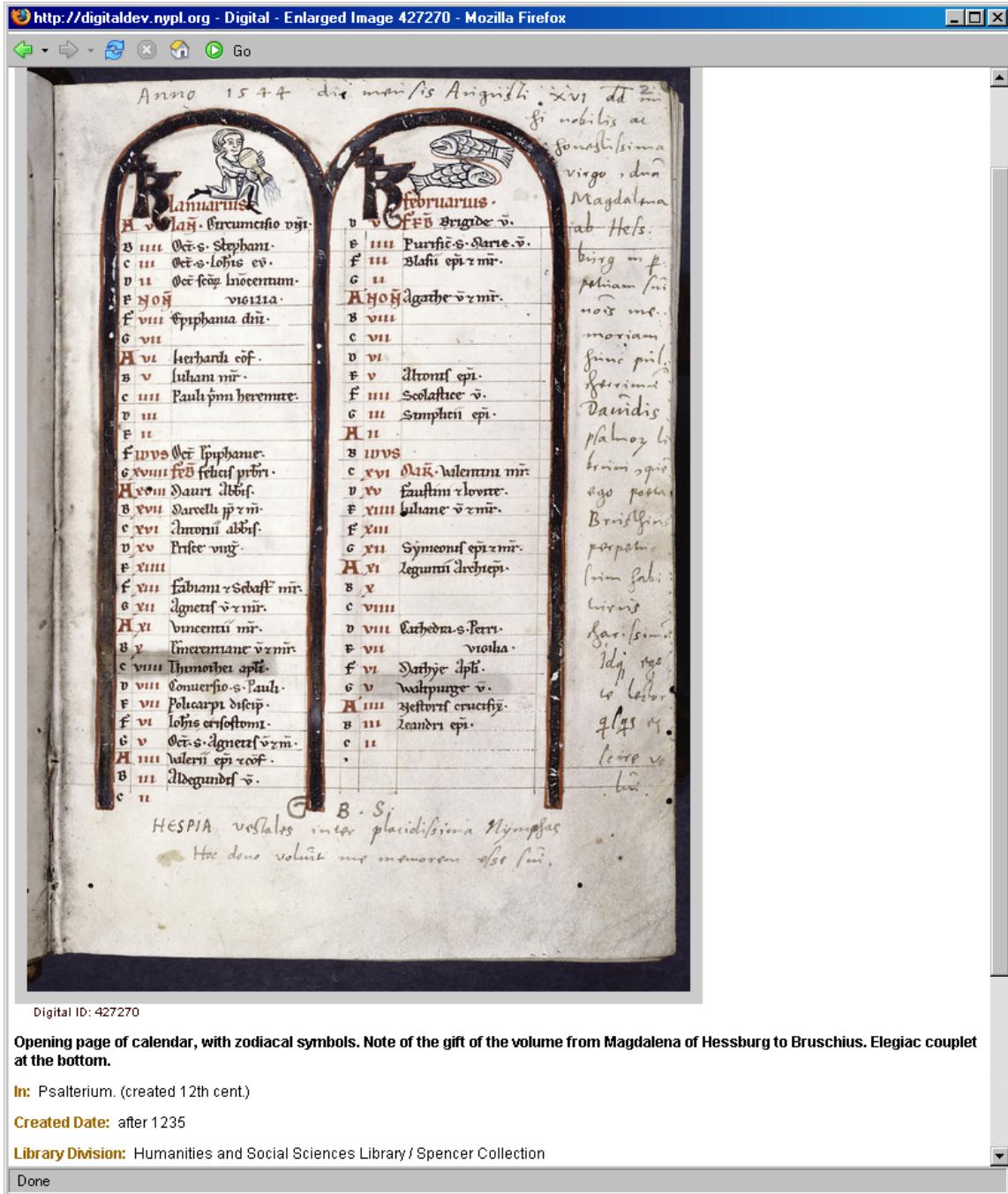
**Created 1999.** Block 498:  
Spring Street between ...  
Digital ID: 524309

# Some More Numbers

---

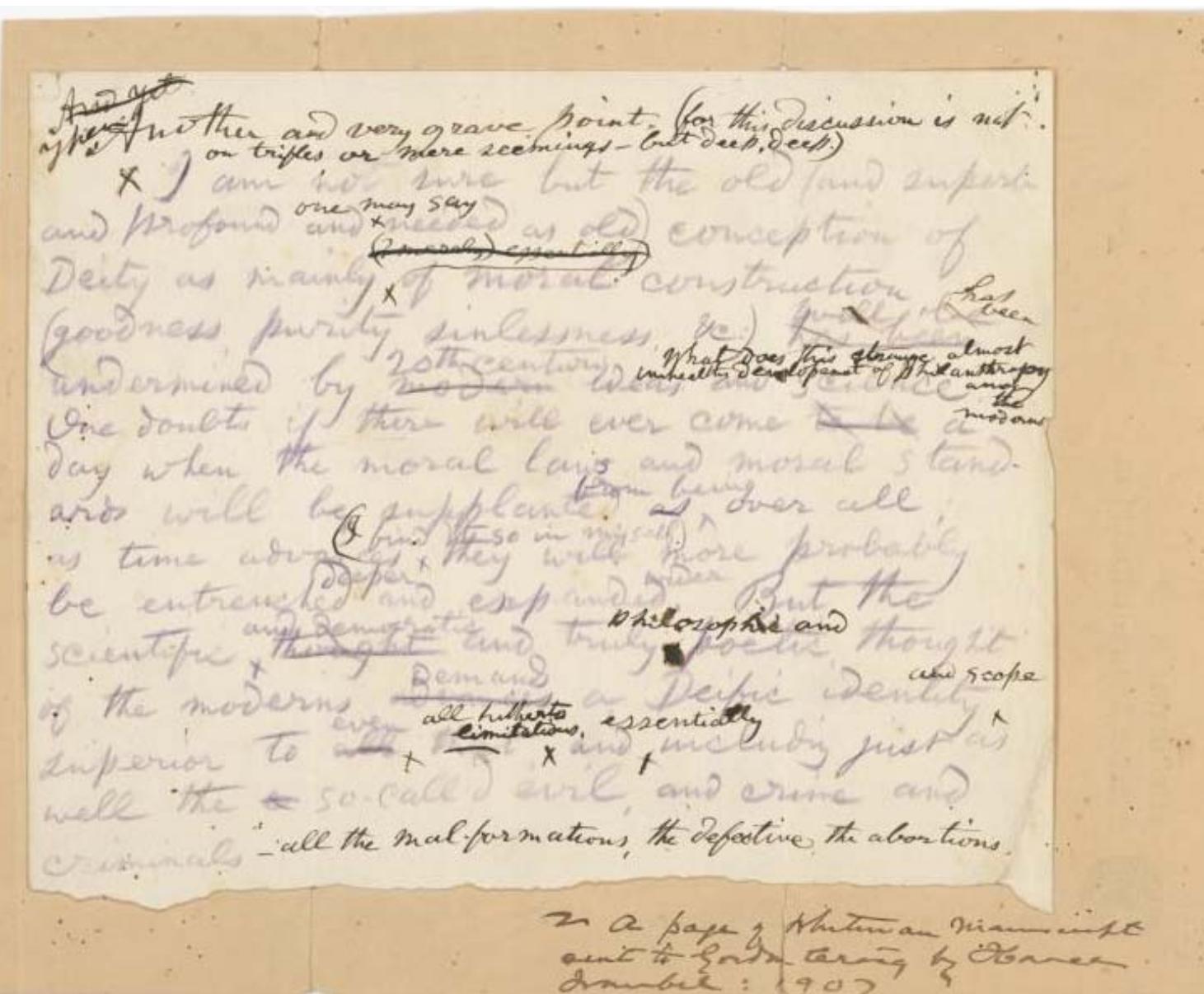
- **347,101 / 550,000 = images with some date in index**
- **39% = images with no depicted, created or published date**
- **1894 = 26,362 items**
- **1240-1260 = 240 items**

# Medieval Manuscripts (1100s)



**Psalterium. Created 12<sup>th</sup> Cent.** Opening page of calendar, with zodiacal symbols. Note of the gift of the volume from Magdalena of Hessburg to Bruschius. Elegiac couplet at the bottom.  
Digital ID: 427270

# Modern Manuscripts (1890s)



**Walt Whitman.**  
created ca. 1890.  
Ms. leaf recto.  
(Notes: Draft in  
pencil with  
revisions in both  
pencil and ink. Ms.  
mounted on larger  
sheet ... below  
bottom right of ms.:  
"A page of Whitman  
manuscript sent to  
Gordon Loring(?)  
by Horace Traubel:  
1907." Digital ID:  
427270

# Project Goals

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- Sort search results by date

***Challenge:*** 60% of digital items have any date

- Give users choice to limit results

***Challenge:*** Dates in metadata were entered as text fields, not numeric

- Provide date browsing or other timelines

***Challenge:*** Indexing appropriate date ranges

# Example Of Date Elements In Metadata

- Date element attributes

  - type:** “published,” “depicted,” or “created”

  - level:** “parent,” etc.

```
<title level="3" struc="244060" catalog="b4170269" seq="1" type="root">Detroit Publishing Company postcards</title>
<title level="2" struc="50492" seq="15" type="parent">71000 series </title>
<title level="1" struc="51177" seq="48" type="main">A Glimpse of Blue Immensity</title>
<title type="manual_filing_title" level="3">Detroit Publishing Company postcards</title>
<identifiers catalog="b4170269" bibl="" barcode="" call="MFY 95-29" sref="" />
<location division="Photography Collection, Miriam and Ira D. Wallach Division of Art, Prints and Photographs"
center="Humanities and Social Sciences Library" div_id="hsh"/>
<obj image="74207" seq="1">
  <medium width="300" height="300">http://images.nypl.org/?id=74207&t=r</medium>
  <small width="150" height="150">http://images.nypl.org/?id=74207&t=t</small>
  <large width="760" height="515">http://images.nypl.org/?id=74207&t=w</large>
</obj>
<physical medium="Offset photomechanical prints" specific="Photomechanical prints"/>
<publisher date="1913-1918, re- issued through 1930" place="Detroit" name="Detroit Publishing Company"/>
<pagination page="DPC# 71107" seq="48"/>
<date type="published" level="parent">1913-1918, re- issued through 1930</date>
<collection id="164" name="Detroit Publishing Company Postcards in the Leonard Lauder Postcard Collection"/>
<extract_info extract_date="3/29/2007"/>
```

# NYPL Dates Are Assigned By Level

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- **Bibliographic structure**
  - **Collection (root\_title)**
    - > **inter\_titles (folders, vols. etc.)**
    - > **parent\_title**
      - > **main\_title (image)**
- **Dates extracted by “level”**
- **Indexed in date-type fields**

# Date Is ‘Flattened’ In Lucene Index

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- Indexed simply as “date\_published”

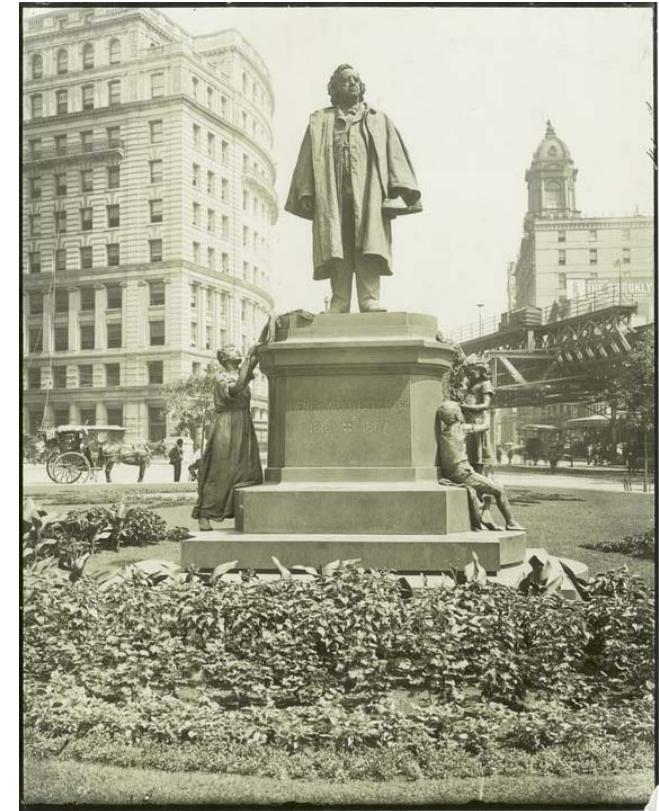
```
<pagination page="DPC#71107" seq="467">
<date type="published" level="parent">1913-1918, re-issued through 1930</date>
<collection id="164" name="Detroit Publishing Company Postcards in the Leonard J.
```



# The “On A Statue Problem”

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- Context for *published, created, or depicted* can be complicated
- Flatten dates or privilege a single access point?
- Example:  
“Henry Ward Beecher, by John Quincy Adams Ward, in Borough Hall Park, Brooklyn, given to the city in 1891.”



# Statue Dedicated 1891

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- Range: 1891, 1813-87, 1830-91, later?
- Detail: date sculpture created, photograph taken?



Digital ID: 490330

**Image Caption:** Henry Ward Beecher by John Quincy Adams Ward, in Borough Hall Park, Brooklyn, given to the city in 1891

**In:** "The Pageant of America" Collection > v.10 - American idealism > (Unpublished photographs) > Portraits.

**Library Division:** Humanities and Social Sciences Library / Photography Collection, Miriam and Ira D. Wallach Division of Art, Prints and Photographs

**Description:** Approx. 8,000 photographs

**Specific Material Type:** Photographs

**Item Physical Description:** 25.5 x 20.5 cm.

**Subject(s):** Beecher, Henry Ward, 1813-1887

**Additional Name(s):** Ward, John Quincy Adams, 1830-1910 -- Sculptor

**Notes:** [On verso: Statue's inscription]; [also on verso] Municipal Art Commission.

**Collection Guide:** "The Pageant of America" Photograph Archive

**Digital Image ID:** 490330

**Digital Record ID:** 96651

# Depicted vs. Created?

- Distinctions may not mean as much to our users
- Search default: all “date\_type” fields



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**Image Caption:** Henry Ward Beecher by John Quincy Adams Ward, in Borough Hall Park, Brooklyn, given to the city in 1891

**In:** "The Pageant of America" Collection > v.10 - American idealism > (Unpublished photographs) > Portraits.

**Library Division:** Humanities and Social Sciences Library / Photography Collection, Miriam and Ira D. Wallach Division of Art, Prints and Photographs

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**Notes:** [On verso: Statue's inscription]; [also on verso] Municipal Art Commission.

**Collection Guide:** "The Pageant of America" Photograph Archive

**Digital Image ID:** 490330

**Digital Record ID:** 96651

# **Indexing Acceptable Date Ranges**

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- **Many digitized items contain a broad range**
  - **Some works created over time (centuries)**
  - **Works collected over time**
  - **Dates harder to catalog for older materials**
  - **Item may contain several depictions**
- **Algorithm indexes date ranges by default to most granular (item) level**
  - **Allow larger ranges for older dates (?)**

# A 400 Year Date Range For Single Object



Digital ID: 1221607

An illustration of the historical evolution of clothing 1.

In: Kokushi daijiten / [kanshūsha Hagino Yoshiyuki ; hensansha Yashiro Kuniji, Hayakawa Junzaburō, Inobe Shigeo] (published Meiji 41 [1908])

Published Date: Meiji 41 [1908]

Depicted Date: 710-1185

Library Division:

Item/Page/Plate Number: Picture No. 9

Medium: colored woodcut

Specific Material Type: Prints

Item Physical Description: 1 print

Subject(s): Costume -- Japan -- History -- Heian period, 794-1185

Costume -- Japan -- History -- Nara period, 710-794

Published Date: Meiji 41 [1908]

Depicted Date: 710-1185

Library Division:

Item/Page/Plate Number: Picture No. 9

Medium: colored woodcut

Specific Material Type: Prints

Item Physical Description: 1 print

Subject(s): Costume -- Japan -- History -- Heian period, 794-1185

Costume -- Japan -- History -- Nara period, 710-794

# The “Castle Map Problem”



Digital ID: 1221600

[Enlarge Image](#)

[Add to Selections](#)

[Printer-friendly Version](#)

[Purchase Print or Gift](#)

**Image Caption:** An old map of Heiankyo (Heian **Castle**).

**In:** Kokushi daijiten / [kanshūsha Hagino Yoshiyuki ; hensansha Yashiro Kuniji, Hayakawa Junzaburō, Inobe Shigeo] (published Meiji 41 [1908])

**Alternate Title:** Kokushi daijiten sashie oyobi nenpyō.

**Published Date:** Meiji 41 [1908]

**Depicted Date:** 794-1185

**Library Division:** Humanities and Social Sciences Library / Asian and Middle Eastern Division

**Description:** 2 v. : ill. (some col.) ; 27 cm.

**Item/Page/Plate Number:** Picture No. 2

**Specific Material Type:** Prints

**Item Physical Description:** 1 print ; 41 x 33.5 cm. on sheet 48.5 x 37.5 cm.

**Subject(s):** Cities & towns -- Japan

**Additional Name(s):** Hagino, Yoshiyuki -- Compiler

Inobe, Shigeo -- Editor

Hayakawa, Junzaburō -- Editor

Yashiro, Kuniji -- Editor

**Notes:** Kokushi daijiten : (Kyoto) **Note 2.** For reference : Kokushi daijiten -- (Kokyo)

**Note 3.** Map size : 41 x 33.5 cm. Scale : 10.5 cm = 2.18 km. (1/20000 full size). Map taken from Heian tsushi (1895?). **Note 4.** For reference : Kokushi daijiten -- (Kokyo)

**Collection Guide:** Asia and the Eastern Pacific Rim in Early Prints and Photographs

# Parsing Numeric Dates From Text

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- Some Examples:

- 22-Aug-42
- [19 - -]
- 12 Cent.
- [181-? - 1872]
- Early 1810s
- Late 14<sup>th</sup> Century
- Before 950 ...

# Spot the Outlier?

Web Images NEW Safe Search: ON

snap! red

Show: All | Small - Medium - Large | Color - Black & White | Hide Filters

46 - 60 of 1,595,813

Back Next

# What Outlier?

Web Images NEW  
Safe Search: ON

red

show: All | Small - Medium - Large | Color - Black & White | Hide Filters

Image From: misc.qti.com

that70schow.com

Go to Site

**Attribution:**  
<http://misc.qti.com/staff/greg/img/photos/red.jpeg>  
red.jpeg - 446 x 471 pixels - 41K

You must obtain the appropriate permissions to use any linked image from the owner(s) of the material.

Back

46 - 60 of 1,595,813

Next

Copyright

# Browsing 17<sup>th</sup> Century New York ...

NYPLDigitalGallery

SEARCH: new york  Advanced Search | Help

Explore: Arts & Literature

Browse by: Name | Subject | Year | Libraries

My Digital: Search History | Selections

Search Results 13-24 of 430 items | Page 2 of 36

Searched for: year(s) 1600-1699 AND "new york"

Search in Results:

			
<b>Pas-kaart vande zee kusten van Nieuw Nederland a</b> ID: 53910 <a href="#">View Image Details</a> <a href="#">Add to Selections</a>	<b>Noui Belgii Novaecque Angliae nec non Pennsylvan</b> ID: 53909 <a href="#">View Image Details</a> <a href="#">Add to Selections</a>	<b>Totius Neobelgii Nova et accuratissima tabula.</b> ID: 54735 <a href="#">View Image Details</a> <a href="#">Add to Selections</a>	<b>Paskaerte van de zuydt en Noordt Revier in Nieuw</b> ID: 54687 <a href="#">View Image Details</a> <a href="#">Add to Selections</a>
			
<b>A new map of the English plantations in America</b> ID: 53904 <a href="#">View Image Details</a> <a href="#">Add to Selections</a>	<b>Nova Belgica et Anglia Nova.</b> ID: 54666 <a href="#">View Image Details</a> <a href="#">Add to Selections</a>	<b>A chart of the sea coasts of New England New Ja</b> ID: 53902 <a href="#">View Image Details</a> <a href="#">Add to Selections</a>	<b>New York City Hall when occupied by the English</b> ID: 836399 <a href="#">View Image Details</a> <a href="#">Add to Selections</a>
			

# ... Finds Out-of-place Items

NYPLDigitalGallery

SEARCH: new york | GO | Advanced Search | Help

Explore: Arts & Literature | GO | Browse by: Name | Subject | Year | Libraries | My Digital: Search History | Selections

Search Results 37-48 of 430 items | Page 4 of 36 | < Previous | Next >

Searched for: year(s) 1600-1699 AND "new york"

Search in Results: | GO |

222-226 West 34th Street (Seventh Avenue - Eighth Avenue) - ID: 1558184 | View Image Details | Add to Selections

21 East 76th Street (Madison Avenue - Fifth Avenue) - ID: 1558326 | View Image Details | Add to Selections

Varick Street - King Street - ID: 1558118 | View Image Details | Add to Selections

New Amsterdam, a small city on Manhattan Island - ID: 421958 | View Image Details | Add to Selections

Bronx - Westchester Avenue - Soundview Avenue - ID: 1557762 | View Image Details | Add to Selections

Sixth Avenue - West 50th Street - ID: 1558058 | View Image Details | Add to Selections

The eminent burghers Manheers Tenbroek and Hard - ID: 420836 | View Image Details | Add to Selections

Christofel Colonus - ID: 424319 | View Image Details | Add to Selections

The New York Public Library ~ Digital Library Program ~ 04.24.07

# Abbreviated Date Leads To Index Error

NYPLDigitalGallery SEARCH:  GO [Advanced Search | Help](#)

(+     

Explore: [Arts & Literature](#) [GO](#) Browse: [Names A-Z](#) | [Subjects](#) | [Libraries](#) My Digital: [Search History](#) | [Selections](#)

**Search Results - Image Detail** Item 1 of 1  
[View related images](#)



**Creator:** Wurts Brothers -- Photographer

**Image Caption:** 21 East 76th Street (Madison Avenue - Fifth Avenue)

**Alternate Image Caption:** Brownstone residences

**In:** [Collection of photographs of New York City] > Manhattan

**Published Date:** 16-Nov-45

**Library Division:** Humanities and Social Sciences Library / Irma and Paul Milstein Division of United States History, Local History and Genealogy

**Description:** 813 photographs : b&w ; 21 x 26 cm. and smaller.

**Item/Page/Plate Number:** W318

**Specific Material Type:** photographs

**Subject(s):** Manhattan (New York, N.Y.)  
New York (N.Y.)

**Standard Reference(s):** Wurts Bros. Negative #816824

**Digital Image ID:** 1558326

**Digital Record ID:** 1041876

**NYPL Call Number:** AZ 06-6805

[View Library Catalog Record](#)

[Search For More Images](#)

Digital ID: 1558326  
[Enlarge Image](#)  
[Add to Selections](#)  
[Pan & Zoom](#)  
[Printer-friendly Version](#)

# Abbreviation Examples

98 hits/items for ((date\_created:early) OR (date\_depicted:early) OR (date\_published:early))

with this class: lucenesearch

dump:

query	DATE_CREATED	DATE_DEPICTED	DATE_PUBLISHED	HITS	IMAGE_ID	PARENT_ID	
1 early 14th century				98	423661	185654	
2 early 14th century				98	423662	185654	
3 early 14th century				98	423663	185654	
4 early 14th century				98	423664	185654	
5 early 14th century				98	423665	185654	
6 early 14th century early 14th century				98	423666	185654	
7 early 14th century				98	423667	185654	247697 Page of text with 1-line and 2-line initials, rubric, and notes.
8 early 14th century				98	423668	185654	247699 Page of text, initial with animal figures, Small initials, rubric, notes.
9 early 14th century				98	423669	185654	247701 Text in two columns, initials, explicit, and note hand.
10 early 15th cent.				98	425276	185678	247957 Opening page of calendar.
11 early 15th cent.				98	425277	185678	247959 Opening of main text with large initial, border decoration, initials with penwork, rubrics, sketches of birds in lower border.
12 early 15th cent.				98	425278	185678	247961 Page of text with initials and penwork, border design, rubrics and catchword.
13 early 15th cent.				98	1261442	185678	614429 Te igitur, historiated initial, Priest at Altar
14 early 15th cent.				98	425280	185678	247965 Explicit of text. Hand 2. Simpler decoration of last 3 folios -- red initials with brown penwork, rubrics, yellow daubs as placemarkers.
15 early 13th century early 13th century				98	427105	185711	250743 Opening of text: prologue to Nahum. Large gold initial decorated in many colors, hierarchy of scripts. Main hand.
16 early 13th century early 13th century				98	427106	185711	250745 Opening of Nahum. Initial with portrait of the prophet. Hierarchy of scripts.
17 early 13th century early 13th century				98	427107	185711	250747 End of prologue for Habakkuk, beginning of main text. Large initial with portrait of prophet. Hierarchy of scripts, rubrics. Quire signature.
18 early 13th century early 13th century				98	1261439	185711	614426 Zechariah, figure-initial
19 early 13th century early 13th century				98	1261440	185711	614427 Malachi, historiated initial: Christ Pantocrator

# Date Limit Options In Advanced Search

## Search Keywords in Fields

These results are displayed as thumbnail images.

Enter word(s) to search, choose type of search, and select fields.

Enter keywords to search:

Fields to search:

- All Fields
- Image Caption
- Source Title (Album, Book, etc.)
- Subject
- Name (Author, Artist, Lithographer, etc.)



Limit by word(s):

(Items found will NOT contain these words or phrases in fields that are searched)

**GO** 

## Limit Search by Date

Select or enter one or more years to limit your search by date.

-

Year Range:  -

Exact Year:

(Enter all years in format "YYYY" or "YY", like these examples:  
"1872" or "950")

## Browse by Date

View all Gallery items for selected years

[ clear all options ]

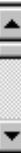
## Limit Keyword Search by Center or Division

To limit a field search to one or more Centers or Divisions of the Research Libraries, choose from the Divisions listed below. If no division is selected, all Divisions of the Research Libraries will be searched.

Humanities and Social Sciences Library:

----- Select from Divisions below -----

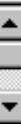
- All Divisions of Humanities and Social Science Library
- Art and Architecture Collection, Miriam and Ira D. Wallach Division of Art, Prints and Photographs
- Asian and Middle Eastern Division
- Carl H. Pforzheimer Collection of Shelley and His Circle



The New York Public Library for the Performing Arts:

----- Select from Divisions below -----

- All Divisions of The New York Public Library for the Performing Arts
- Billy Rose Theatre Collection
- Jerome Robbins Dance Division



# Date Ranges Parsed To Linked Date Queries

NYPLDigitalGallery

SEARCH:  GO Advanced Search | Help

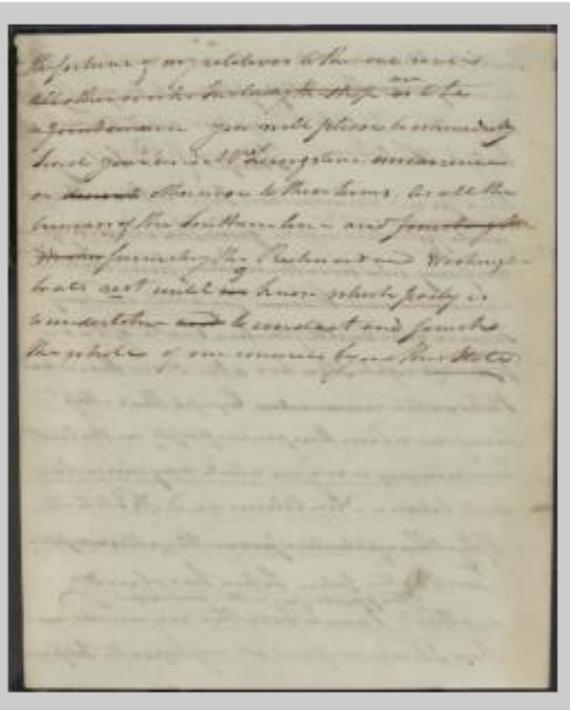
Explore: Arts & Literature GO

Browse by: Name | Subject | Year | Libraries

My Digital: Search History | Selections

Search Results - Image Detail Item 482 of 2,242

<< Back to Thumbnail Images < Previous | Next >



**Image Caption:** 1813, Dec. 1, AL, draft of letter from Robert Fulton to Robert R. Livingston

**In:** Robert Fulton papers, 1790-1813 (created 1790-1813)

**Library Division:** Humanities and Social Sciences Library / Manuscripts and Archives Division

**Item/Page/Plate Number:** 4

**Medium:** AL, draft

**Specific Material Type:** manuscript

**Subject(s):** Fulton, Robert, 1765-1815

**Additional Name(s):** Fulton, Robert, 1765-1815 -- Author  
Livingston, Robert R., 1746-1813 -- Recipient

**Digital Image ID:** rf\_0931813

**Digital Record ID:** 189139

[View Library Catalog Record](#)

[Search For More Images](#)

Digital ID: rf\_0931813

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# Browse Dates In Timeline: Grid Index

NYPLDigitalGallery

SEARCH:  GO Advanced Search | Help

Explore: Arts & Literature GO

Browse by: Name | Subject | Year | Libraries

My Digital: Search History | Selections



**Browse Dates**

**Centuries:** 1000s 1100s 1200s 1300s 1400s 1500s 1600s 1700s 1800s 1900s 2000s

**Years:** 1000 1066 1070 1098 1100 1101 1102 1103 1104 1105 1106 1107 1108 1109 1110  
1111 1112 1113 1114 1115 1116 1117 1118 1119 1120 1121 1122 1123 1124 1125 1126 1127  
1128 1129 1130 1131 1132 1133 1134 1135 1136 1137 1138 1139 1140 1141 1142 1143 1144  
1145 1146 1147 1148 1149 1150 1151 1152 1153 1154 1155 1156 1157 1158 1159 1160 1161  
1162 1163 1164 1165 1166 1167 1168 1169 1170 1171 1172 1173 1174 1175 1176 1177 1178  
1179 1180 1181 1182 1183 1184 1185 1186 1187 1188 1189 1190 1191 1192 1193 1194 1195  
1196 1197 1198 1199 1200 1201 1202 1203 1204 1205 1206 1207 1208 1209 1210 1211 1212  
1213 1214 1215 1216 1217 1218 1219 1220 1221 1222 1223 1224 1225 1226 1227 1228 1229  
1230 1231 1232 1233 1234 1235 1236 1237 1238 1239 1240 1241 1242 1243 1244 1245 1246  
1247 1248 1249 1250 1251 1252 1253 1254 1255 1256 1257 1258 1259 1260 1261 1262 1263  
1264 1265 1266 1267 1268 1269 1270 1271 1272 1273 1274 1275 1276 1277 1278 1279 1280  
1281 1282 1283 1284 1285 1286 1287 1288 1289 1290 1291 1292 1293 1294 1295 1296 1297  
1298 1299 1300 1301 1302 1303 1304 1305 1306 1307 1308 1309 1310 1311 1312 1313 1314  
1315 1316 1317 1318 1319 1320 1321 1322 1323 1324 1325 1326 1327 1328 1329 1330 1331  
1332 1333 1334 1335 1336 1337 1338 1339 1340 1341 1342 1343 1344 1345 1346 1347 1348  
1349 1350 1351 1352 1353 1354 1355 1356 1357 1358 1359 1359 1360 1361 1362 1363 1364 1365  
1366 1367 1368 1369 1370 1371 1372 1373 1374 1375 1376 1376 1377 1378 1379 1380 1381 1382  
1383 1384 1385 1386 1387 1388 1389 1390 1391 1392 1393 1394 1395 1396 1397 1398 1399  
1400 1401 1402 1403 1404 1405 1406 1407 1408 1409 1410 1411 1412 1413 1414 1415 1416  
1417 1418 1419 1420 1421 1422 1423 1424 1425 1426 1427 1428 1429 1430 1431 1432 1433  
1434 1435 1436 1437 1438 1439 1440 1441 1442 1443 1444 1445 1446 1447 1448 1449 1450  
1451 1452 1453 1454 1455 1456 1457 1458 1459 1460 1461 1462 1463 1464 1465 1466 1467  
1468 1469 1470 1471 1472 1473 1474 1475 1476 1477 1478 1479 1480 1481 1482 1483 1484  
1485 1486 1487 1488 1489 1490 1491 1492 1493 1494 1495 1496 1497 1498 1499 1500 1501  
1502 1503 1504 1505 1506 1507 1508 1509 1510 1511 1512 1513 1514 1515 1516 1517 1518  
1519 1520 1521 1522 1523 1524 1525 1526 1527 1528 1529 1530 1531 1532 1533 1534 1535  
1536 1537 1538 1539 1540 1541 1542 1543 1544 1545 1546 1547 1548 1549 1550 1551 1552  
1553 1554 1555 1556 1557 1558 1559 1560 1561 1562 1563 1564 1565 1566 1567 1568 1569  
1570 1571 1572 1573 1574 1575 1576 1577 1578 1579 1580 1581 1582 1583 1584 1585 1586  
1587 1588 1589 1590 1591 1592 1593 1594 1595 1596 1597 1598 1599 1600 1601 1602 1603  
1604 1605 1606 1607 1608 1609 1610 1611 1612 1613 1614 1615 1616 1617 1618 1619 1620  
1621 1622 1623 1624 1625 1626 1627 1628 1629 1630 1631 1632 1633 1634 1635 1636 1637  
1638 1639 1640 1641 1642 1643 1644 1645 1646 1647 1648 1649 1650 1651 1652 1653 1654  
1655 1656 1657 1658 1659 1660 1661 1662 1663 1664 1665 1666 1667 1668 1669 1670 1671

# Date Distribution Timeline: Ranked By Hits

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**Years:** 1000 1066 1070 1098 1100 1101 1102 1103 1104 1105 1106 1107 1108 1109 1110 1111 1112 1113 1114  
1115 1116 1117 1118 1119 1120 1121 1122 1123 1124 1125 1126 1127 1128 1129 1130 1131 1132 1133 1134  
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# **Some Lessons We've Learned**

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- Date browsing interfaces may look simple, but useable metadata is still a big challenge
- Exposing date facets often will involve intensive metadata remediation
- Build as much granularity as possible in your date metadata early on
- Dates = easy to use?

# Future Directions: Wikipedia

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## Alice Brady

From Wikipedia, the free encyclopedia

**Alice Brady** (November 2, 1892 - October 28, 1939) was an Academy Award-winning American actress in the silent film era of the late 1910s and 1920s through the 1930s, during the Great Depression.

**Contents [hide]**

- 1 Career
- 2 Academy Awards
- 3 Selected filmography
- 4 External links

### Career

[edit]

Brady began her movie career at the age of 22 in New York City's World Studios. Her father, William A. Brady, was its owner as well as an important theatrical producer in New York.

Her first film was the silent *As Ye Sow* (1915) as Dora Leland. She acted in more than 50 silent films throughout her career, but during the 1920s she was more prolific as a stage performer. She returned to the screen in 1933 in her first talkie, *When Ladies Meet*.

It was for her portrayal of Mrs. Molly O'Leary in 1937's *In Old Chicago* that she won her Oscar.

Brady died in New York City of cancer on October 28, 1939 shortly after filming *Young Mr. Lincoln* with director John Ford.

### Academy Awards

[edit]

**Wins:**

- 1937 - Best Supporting Actress in *In Old Chicago*

**Nominations:**

- 1936 - Best Supporting Actress in *My Man Godfrey*

**Alice Brady**



Born November 2, 1892  
New York, New York, USA

Died October 28, 1939 (aged 46)  
New York, New York, USA

**Academy Awards**

**Best Supporting Actress**  
1937 *In Old Chicago*

Awards			
Preceded by <b>Gale Sondergaard</b> for <i>Anthony Adverse</i>	<b>Academy Award for Best Supporting Actress</b> 1937 for <i>In Old Chicago</i>	Succeeded by <b>Fay Bainter</b> for <i>Jezebel</i>	

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# 1939

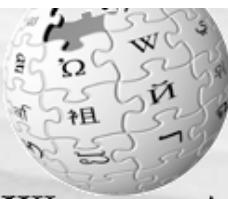
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**1939 (MCMXXXIX)** was a [common year](#) starting on [Sunday](#) (link will display full year calendar).**Contents** [[hide](#)]

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**Centuries:** 19th century - **20th century** - 21st century**Decades:** 1900s 1910s 1920s - 1930s - 1940s 1950s 1960s**Years:** 1936 1937 1938 - **1939** - 1940 1941 1942**1939 by topic:***Arts*[Architecture](#) - [Art](#) - [Film](#) - [Literature](#)[Music \(Country\)](#) - [Television](#)*Science and technology*[Archaeology](#) - [Aviation](#)[Meteorology](#) - [Rail transport](#) - [Science](#)*By country*[Australia](#) - [Canada](#) - [India](#)[Ireland](#) - [Malaysia](#) - [New Zealand](#) - [Singapore](#) - [South Africa](#) -[UK](#) - [Wales](#) - [Zimbabwe](#)*Other topics*[Awards](#) - [Sport](#) - [Law](#) - [State leaders](#) - [Sovereign states](#) -  
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v · d · e



# 1937 in rail transport

From Wikipedia, the free encyclopedia

This article lists events related to [rail transport](#) that occurred in [1937](#).

## Contents [hide]

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### 2 Births

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**1937 in rail transport**

[1938 in rail transport](#)

## Events

[edit]

### January events

[edit]

- [January - General Motors Electro-Motive Division introduces the EMD E2.](#)

### March events

[edit]

- [March 9 - In a joint announcement, Pullman and the New York Central announce the order of new \[streamlined\]\(#\) equipment to be NYC's "Great Steel Fleet". At the same time Pullman and the Pennsylvania Railroad announce new streamline cars to be PRR's "Fleet of Modernism".](#)
- [March 15 - The last tram operates on the Porte de Saint-Cloud-Porte de Vincennes line in Paris, France.<sup>\[1\]</sup>](#)

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A church in Ribeira, Ponte de Lima, Portugal

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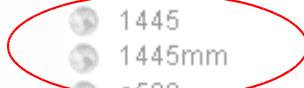
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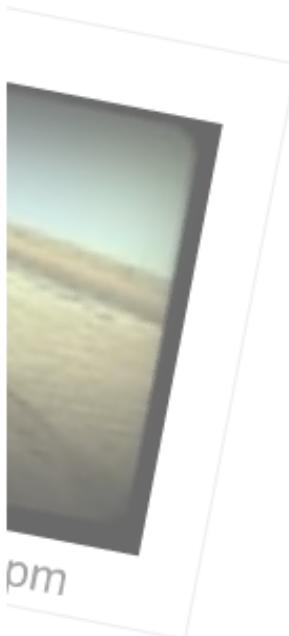
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# References & Credits

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## Further References & Credits

- ❑ Digital Library Federation. *Aquifer Implementation Guidelines for Shareable MODS Records*. November 2006.
- ❑ NDSL. **OAI Best Practices: Dates**. <http://oai-best.comm.nsdl.org/cgi-bin/wiki.pl?DatePractices> (Accessed April 21, 2007).
- ❑ Robin Wendler. “The eye of the beholder: Challenges of image description and access at Harvard,” *Metadata in Practice*. 2004.
- ❑ **Thanks to:** Tom Robertson (Lucene consulting, Stanford), Lee Horowitz (NYPL), Janet Murray (NYPL), Barbara Taranto (NYPL)
- ❑ **Contact:** [jdalton@nypl.org](mailto:jdalton@nypl.org)