Contextualizing and Decontextualizing
Adding Value to Collections in Digital Ecosystems

Dr. Klaus Ceynowa, Bavarian State Library
Agenda

Science & Research
Manuscript Workbench, Image Similarity Search

Culture
Location Based Service, GLAM Portal “bavarikon”

Library as Place
Inhouse Navigation

Preservation
Arts Technology
<table>
<thead>
<tr>
<th>Founded in 1558</th>
<th>921 employees</th>
<th>10.4 million volumes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Third-party funds:</td>
<td>11,5 millionen €</td>
<td>Annual budget:</td>
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<tr>
<td>140,000 volumes</td>
<td></td>
<td>53.5 Millionen €</td>
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<tr>
<td>Acquisitions per year:</td>
<td>59,000</td>
<td>500,000 e-books</td>
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<td>112 hours open per week</td>
<td>20,000 incunabula</td>
<td>More than 1.1 million</td>
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<tr>
<td>Document delivery:</td>
<td>130,800</td>
<td>digitized titles</td>
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<tr>
<td>295,000</td>
<td>116,000 printed books of the 16th century</td>
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</tbody>
</table>
Bavarian State Library Digitization Center
Largest scanner fleet of cultural institutions in Germany (35 devices)

1x Zeutschel OS 11.000 A0
7x Zeutschel OS 14.000 A1
1x Zeutschel OS 14.000 TT A2
1x Zeutschel OS 15.000 Advanced
4x Treventus ScanRobot MDS 2.0

1x Hasselblad H4D-200 MS
1x Hasselblad H5D-200 MS
1x Nikon Coolscan 9000
1x Kodak i4600
1x Polymetric QTSculptor -Farb 3D Scanner
1x Zoller + Fröhlich Laserscanner
1x Nikon D 70
1x Canon EOS 5 D
1x Canon EOS 5 D Mark II

2x "Grazer Kameratisch" / Zeutschel OS 10.000
1x Traveller = kleiner, mobiler “Grazer Kameratisch”
1x Thermographische Kamera mit spezieller Buchwiege
1x Linhof mit PhaseOne-Back
1x Cobra V-Scan
1x book2net “Profi”
More than 900,000 PDF downloads of complete works from the Bavarian State Library Digital Collections per year (2,400 per day)
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International Image Interoperability Framework (IIIF)
Image-based Similarity Search

Motifs

The Similarity based image search gives you the opportunity to search inside of more than 5 million images identified automatically from manuscripts, old prints, maps and other works from the holdings of the Bavarian State Library, published between the 9th and the 20th century. Please note that you can customize your search.

Options

Time frame
1013 - 1945

Color Edge Ratio: This controller weights the color edge ratio of the search. A value of 0.5 considers colors and edges equally.

Edges
Colors

Minimum similarity: This controller sets the minimum similarity. The higher the value, the higher the similarity, while 1.0 would be congruence. It is recommended to set a value of at least 0.85 but not higher than 0.95.

Minimum similarity 0.85

Results: Maximum number of results to be displayed
150 Results

Reset to default
More than 5 million images automatically recognized
Beckert, August: Kreuzeck

Bayerische Staatsbibliothek
Beckert, August: Kreuzeck

Bayerische Staatsbibliothek
<table>
<thead>
<tr>
<th>Agenda</th>
</tr>
</thead>
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<tr>
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<tr>
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App “Bavaria in Historical Maps” for iOS and Android

Information contextualised “on the spot”

*Historical Google Maps*
Bavaria in Historical Maps

- 5 maps with 260 map sheets
- 2,500 points of interest (texts, images, audios, videos, information on locations etc.)
- 1,000 views of locations by Hartmut Schedel, Matthäus Merian d. Ä. and Michael Wening
- 15 location portraits
- Special focus on Nuremberg

Key Maps:
- Phillip Apian’s land boards (1568)
- Frederick de Wit, Circulus Bavaricus, Franconius, Suevicus (1670 - 1690)
- Güssefeld maps (1782/1796)
- Topographical atlas of the Kingdom of Bavaria (1812-1867)
- Map of the German Empire (1876ff.)
Bayern in historischen Karten
Cultural Platform "bavarikon"
Karl der Große schenkt dem Regensburger Kloster St. Emmeram Land südlich des Klosters.
Arboreus, Heinrich: Himmelsglobus – BSB Cod.icon. 186

Bayerische Staatsbibliothek
<table>
<thead>
<tr>
<th>Agenda</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Science &amp; Research</strong></td>
<td>1</td>
</tr>
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</tr>
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<td></td>
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<td>3</td>
</tr>
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<td></td>
</tr>
<tr>
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<td>4</td>
</tr>
<tr>
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<td></td>
</tr>
</tbody>
</table>
BSB Navigator –
A Beacons Based Indoor Navigation App
Beacons: Bluetooth Low Energy Signal Generators
How does it work?

iBeacon

Proximity

Trilateration

Fingerprinting

Sensor Fusion

POI DB
BSB Navigator

Maps

Categories
- Entrances and exits
- Exhibitions
- Food and beverages
- Function rooms
- Group workplaces

Reading rooms
- Aventinus Reading Room
- East Reading Room
- General Reading Room
- Periodicals Reading Room
- Reading Room Music, Maps and Images
- Reading Room for Manuscripts and Early Printed Books
- Research area, first floor, General Reading Room
- Registration
- Research workplaces
- Scanners, copiers, printers

Search PCs, basement floor, Periodicals Reading Room
Take me there
The Treasure Vault (Schatzkammer) is the most important exhibition room of the Bayerische Staatsbibliothek, where the most valuable exhibits are shown and explained in each case.

The dimming of light in the room places the treasures in their true light. Moreover, the room is air-conditioned and has an Inergen fire-extinction system.
Discovery Mode

Now you are able to find hidden attractions of the Bayerische Staatsbibliothek.
https://www.youtube.com/watch?v=gdvb_4bynUw
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Full HD 3D-Digital Microscope

- Up to 5,000 x optical magnification
- Contactless 360° rotational inspection
- 3D-surface measurements
Omnipotent Dei, patre nostro ac spiritui sancto ac sanctis suis ac venerabiles manus tuas: et elevas oculum in celum ad te deum patrem, ut ostensorium graver argentera, et dicis: accipiet manducare eum corpus meum.
Codex Aureus from St. Emmeram (c. 870)
Top view on front board
Content is King ...

...Context is Queen
Thank you for your kind attention!
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Mobil: +49 (0)170 793 7463

Website
Bayerische Staatsbibliothek
http://www.bsb-muenchen.de

Mobile website
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