

ARQUIGRAFIA

digital images in a Web
collaborative environment

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ARQUIGRAFIA



Open, public and non-profit collaborative environment on the Web, dedicated to the dissemination of architectural images, with a special focus on Brazilian architecture and urban spaces.

Context

The Arquiografia has been developed in close cooperation with the Audiovisual Sector of the Library of School of Architecture and Urbanism (FAU). The multidisciplinary challenges of the *Arquiografia* project include the follow partners institutions:



School of Architecture and Urbanism



School of Communications and Arts



Institute of Mathematics and Statistics



Law School



Free Software Skills Center – CCSL



National Institute of Science and Technology "Internet of the Future for Smart Cities"



Web Collaborative Environments Research Center (NaWEB)

Approaches intersections

Architecture

- Debate on architecture, cultural heritage and documentation
- Collective knowledge ==> Individual knowledge

Library Science /Information Science

- representation of images, controlled vocabularies and users participation
- knowledge organization in the brazilian architecture domain (digital repository, the website databases)
- indexing languages x tags

Computer science

- Interoperability; Linked data; Ontologies; Semantic web and Information retrieval

Objectives

- Preservation, organization, representation, scanning and retrieval of information from the original collection of photographic images of the *School of Architecture and Urbanism* library collection
- Share on the web the collaborative efforts that has constituted the physical collection, promoting at a much larger scale the convergence of private and public collections
- Promote a continuous expansion of the collection, counting on the web contribution of photographers, students, teachers, researchers, and people interested in architecture
- Improve public based full access to stimulate the construction of an architectural visual culture

The Audiovisual Library Collection



'The Imaginary Museum'
(André Malraux, 1947)

84645 Slides



16766 Photographs



49500 Acetate negatives

400000 Architectural drawings



4150 Glass Negatives

First Steps

Diagnosis of photographic documents

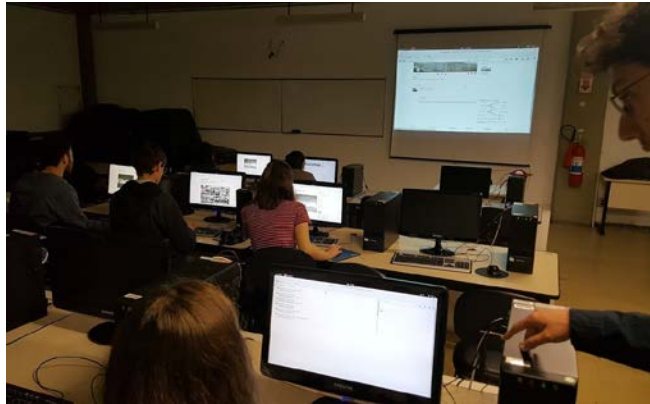


Mechanical Cleaning

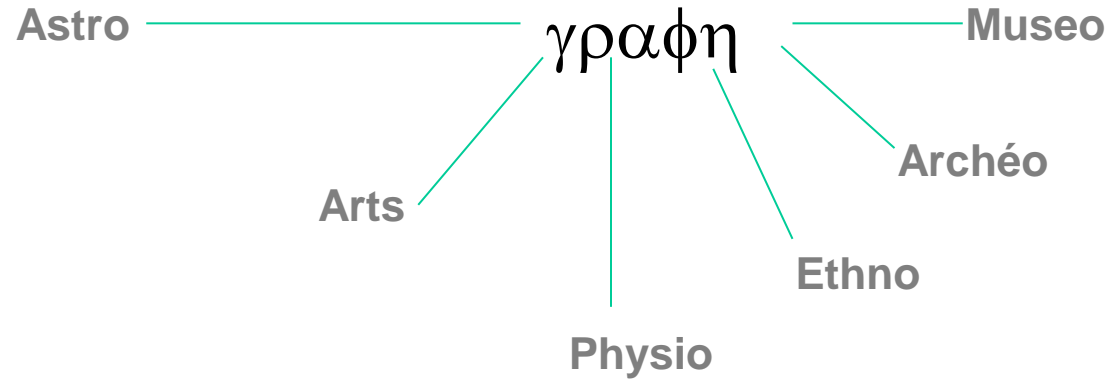


Selection of relevant documents

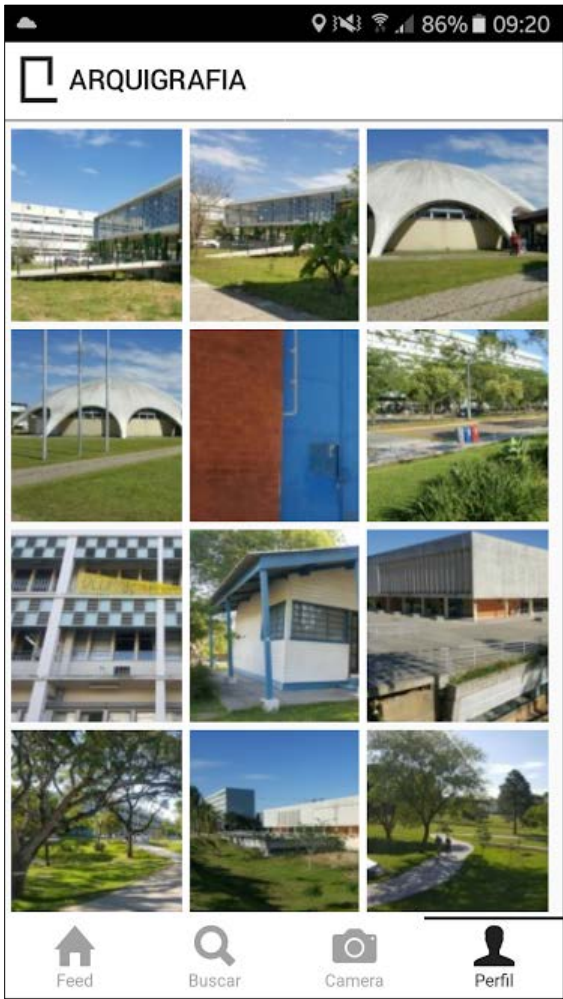
Software development and webdesign



+GRAFIA
ARQUIGRAFIA









Tools

Free Software



Groupware Workbench

The Apache ODF Toolkit.



Hibernate. Relational Persistence for Java



Mysql Database



Android for mobiles



Creative Commons



Information Science: cataloging and indexing



Cataloguing

⇒ Analysis of the Cataloguing Standards

Set of Metadata:

Description: Title, Classification number, Name, Country, State, City, District, Street, Image author, Picture date, Building author, Building date, Notes, Registration number date, Cataloguing date

Technical: Dimensions, Width, Height, Resolution, Bit depth, Color representation

Administrative: License (Creative Commons), Collection, Donors, Authorization term for web broadcasting.

Terminology work

⇒ **Library Subjects + Controlled Vocabulary + List of tags**



Terminological standardization work

Aspects of Indexing Images

Denotation

santa efigenia viaduct

Connotation

viaducts (any)

Context

fair street at santa efigenia viaduct





ARQUIGRAFIA
Seu universo de imagens de arquitetura



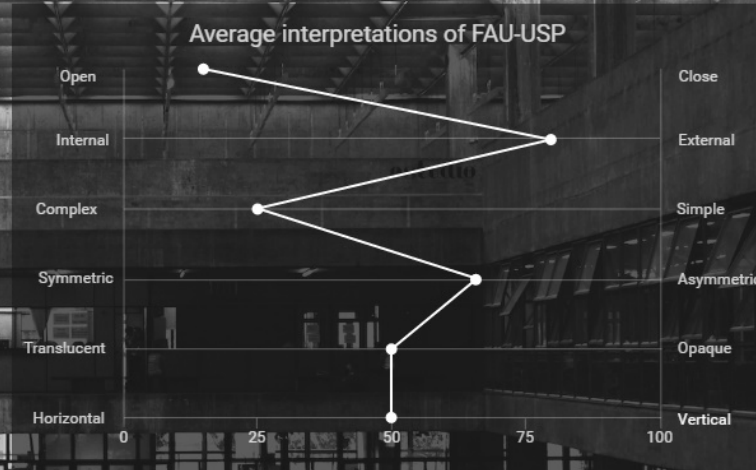
MANUAL DE
PROCEDIMENTOS
TÉCNICOS



What connects architectures from different times and places?

Architecture can be understood as the relationship between opposite aspects such as: how open and how close, symmetry and asymmetry, vertical and horizontal, etc.

What characteristics predominate in this architecture?
Save your impressions in Arquitecta!





Vânia Lima

SAIR



ALBUNS



UPLOAD



NOTIFICAÇÕES

Museu Niemeyer



Museu Niemeyer



Tags:



Suas impressões do Museu Niemeyer

Eu conheço pessoalmente esta arquitetura.

Estou no local.

Para cada um dos pares abaixo, quais são as qualidades predominantes na arquitetura que são visíveis nesta imagem?

Aberta (71%) Fechada (29%)



Interna (4%) Externa (96%)



Complexa (75%) Simples (25%)



Simétrica (73%) Assimétrica (27%)



Translúcida (27%) Opaca (73%)



Horizontal (77%) Vertical (23%)



ENVIAR

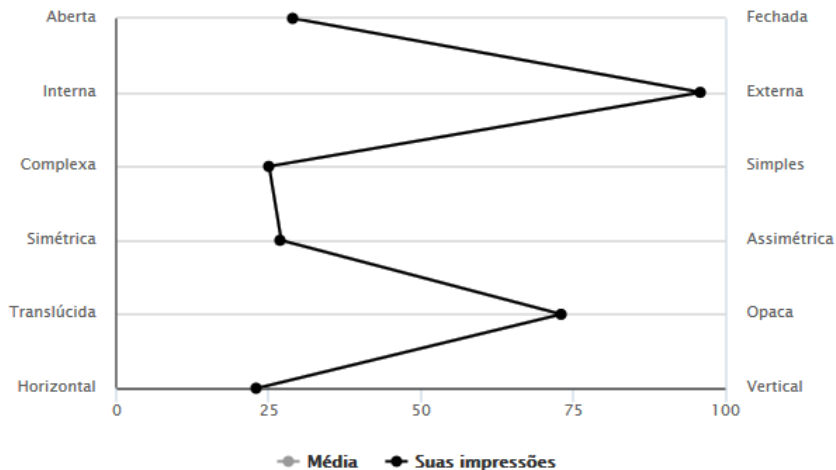
VOLTAR

Tags:

rampa, concreto

ENVIAR VOLTAR

Média de interpretações do Museu Niemeyer



Comentários



Vânia Lima
Deixe seu comentário

COMENTAR

Cada usuário é responsável por seus próprios comentários. O Arquigrafia não se responsabiliza pelos comentários postados, mas apenas por tornar indisponível no site o conteúdo considerado infringente ou danoso por determinação judicial (art.19 da Lei 12.985/14).

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FAUUSP

QUAPÁ



CCSL

IME-USP

vitruvius



Secretaria de Políticas Culturais
Ministério da

ESCOLA DE COMUNICAÇÕES E ARTES
UNIVERSIDADE DE SÃO PAULO

arch daily



Results

Users



Architecture students
38,6%



Students of other areas
10,3%



Architects
23,4%



Architecture teachers
4,3%



Photographers
4,1%



2017

Development
of the mobile
APP

Results



+ than 42000 digitized images

+ than 70 different related academic productions

+ than 10000 images on-line



Next Steps (2017-2019)

- Implementation of a first version of the following functionalities:
 - system moderation integrated with game elements (gamification);
 - Instant communication of users logged into the system;
 - Quiz as an instrument for intensifying architectural learning;
- Evaluation by users according to User-Centered Design.
- The full development and free public dissemination of the +GRAFIA template integrated to the improvement of the Android and IOS App
- Set metadata from the adequacy of descriptive fields to allow the application of conceptual ontologies.
- Conduct studies relating to binomials plastic-spatial qualities arranged as semantic differential seeking to define an evaluation model for images of ARQUIGRAFIA.

INTEROPERABILITY WITH THE FUTURE

AND

COMMUNICATION THROUGH TIME



<http://www.youtube.com/watch?v=G4gZyaVY8-Q>

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