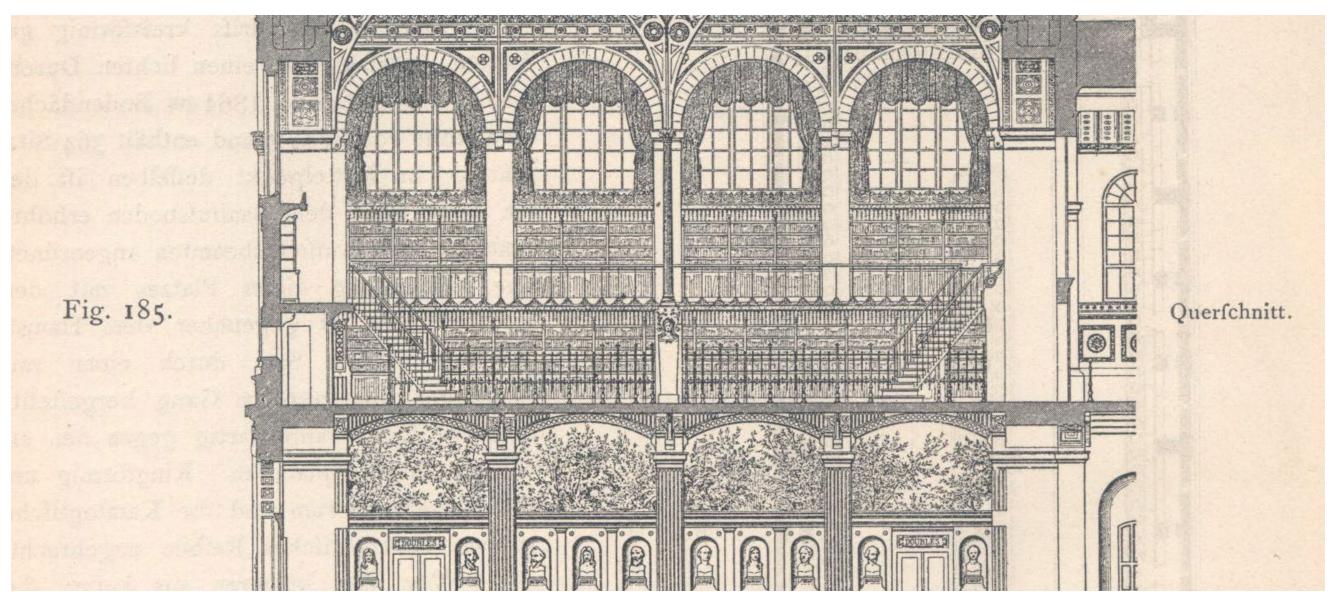
### ARK-E5512 Fall 2021 19.11.2021

# Archives

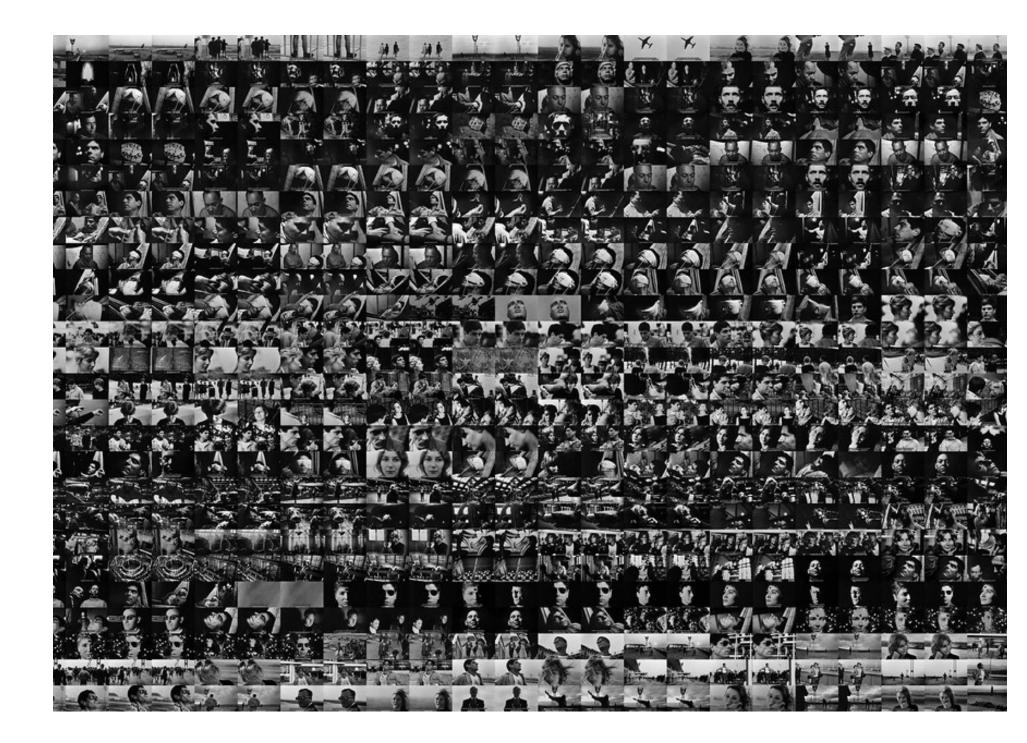


Henri Labrouste: Sainte-Geneviève Library, Paris, 1851.

Image material, and its use

Drawings and technical drawings

Topographical data, open data



Grid-montage visualization of La Jetée (1962) by Chris Marker.

## What have you found to be the most useful ways of finding literature and texts?





### **Primary sources and secondary sources & critical literature**

A thesis studies an object by making use of specific instruments. Often the object is a book and the instruments are other books. For a thesis on "Adam Smith's Economic Thought," the object is Adam Smith's bibliography, and the instruments are other books on Adam Smith. In this case, we can say that Adam Smith's writings constitute the primary sources and the writings about Adam Smith are the secondary sources or the critical literature. Naturally, if the topic were "The Sources of Adam Smith's Economic Thought," the primary sources would then be the books or other writings that inspired Adam Smith. Certainly historical events (and particular discussions on certain concrete phenomena that Smith may have witnessed) may also have inspired Adam Smith's work, but these events are nevertheless accessible to us in the form of written material, that is, in the form of other texts.

But there are also cases in which the object is a real phenomenon. This would be true for a thesis on the internal migrations of Italians in the twentieth century, the behavior of a group of handicapped children, or an audience's opinion of a current TV program. In these cases, primary sources may not yet exist in an organized written form. Instead you must gather and create your primary documents, including statistical data, interview transcriptions, and sometimes photographs or even audiovisual documents. The critical literature in these cases will not differ greatly from that of our thesis on Adam Smith, although it may consist of newspaper articles and other kinds of documents, instead of books and journal articles.

You must be able to clearly distinguish primary sources from critical literature. The critical literature often reproduces quotes from primary sources, but (...) these are indirect sources. Moreover, a student conducting hasty and disorderly research can easily mistake the arguments contained in primary sources with those of the critical literature. For example, if I am writing a thesis on "Adam Smith's Economic Thought" and I notice that I am dwelling on a certain author's interpretations more than my own direct reading of Smith, I must either return to the source or change my topic to "The Interpretations of Adam Smith in Contemporary English Liberal Thought." The latter topic will not exempt me from understanding Smith's work, but my primary interest will be the interpretations of Smith's work by others. Obviously, an in-depth study of Smith's critics will require a comparison of their work to the original text. ...

From: Umberto Eco: How to Write a Thesis, 2015 (orig.1977)

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From: Umberto Eco: How to Write a Thesis, 2015 (orig.1977)

### **Conducting a literature search - example from a Methodology class in 2016**

Literature search and literature review.

The search and review were conducted in order to find material concerning the analysis of drawing types in architecture.

The search terms were chosen so that the analysis of drawings and images could be studied explicitly in texts and articles dealing with architecture. Some problems arose from the terms being too tight, and not including some interesting texts dealing with the issue slightly outside the terms, or being too broad, and including a lot of material from e.g. the field of Information Technology.

Search terms and operators (AND, OR, NOT) used for primary searches:

<u>Architecture</u> OR <u>Architectural</u>

AND

Image OR Drawing OR "Image-Type" OR "Drawing-Type" OR presentation OR Visual

AND

Analysis OR Meaning



Databases and search engines used: <u>Scopus</u> and <u>Google Scholar</u>

The search was executed using the Scopus database for scientific articles, and on the Google Scholarsearch engine to get an understanding on the wider field of literature. The parameters and results of the literature search are outlined below, with the Scopus-search first.

Scopus-search

Primary search

The search terms were used to search for articles solely in the Social Sciences & Humanities. Result: <u>2,326 documents</u>, which was too large a selection to process.

Secondary search

The search was limited to all sources with the words "architecture", "building" or "design" or variations thereof in the title, not counting sources that referred to "architecture" in an Information Technology context.

Results: <u>140 documents</u>, which was still too large, but manageable.

Final search

The search was finally limited to keywords (in the scopus-search) chosen according to relevance: Architectural Design, Architecture, Building, Perception, Design, Visual Analysis, Buildings, Design Process, Geometry, Space Syntax, Design Activity, Spatial Analysis, Architectural Element, Architectural Formation, Architectural Images, Building Design, Computer Graphics, Conceptual Design, Design Cognition, Design Decisions, Design Education, Esthetics, Image, Modeling, etc.

And keywords, that were deemed irrelevant were used to narrow the results further (excluding keywords relating to building physics, economics or specific issues outside the subject of drawing and presentation, i.e. crime):

Daylighting, Energy Conservation, Solar Radiation, Thermal Comfort, Energy Consumption, Energy Efficiency, Energy Use, Energy Utilization, Geographic Information Systems, Light, Light Effect, Lighting, Acoustics, Behavioral Research, Cost Benefit Analysis, Costs, Crime, Dynamic Lighting, Elementary Schools, EnergyPlus, Environmental Quality, Fear Of Crime, Gender, Heating, Shading Devices, Solar Energy, A-thermal, Acoustic Quality, Acoustic Waves, Acoustical Properties, Air Quality, etc.

Result: <u>42 documents</u>, which was manageable and possible to go through, title by title.

### List of documents:

- An analysis on the Dunhuang Mogao Northern Dynasties architectural images 1.
- 2. Representational craft and production: Comparison of the value of hand drawing and digital media in architectural academies and practices
- 3. Piešimas architekturoje - nuo vaizdavimo iki kurybos (Drawing Architecture - from imaging to creativity)
- Thinking the object to be made: Architectural poiesis and the problems of form making 4.
- Art and the architectural model: Contemporary case studies and analysis 5.
- The impact of computer aided architectural design programs on conceptual design in an 6. educational context
- 7. The effect of subliminal suggestions on Sudden Moments of Inspiration (SMI) in the design process
- 8. Interior spaces and the layers of meaning
- Exploring privacy in indian, algerian and nigerian dwellings from an environmental behavioral 9. perspective
- An insight on designers' sketching activities in traditional versus digital media 10.
- Combination of exhibition space and traditional architectural images: The design of Guo Moruo 11. Memorial Hall in Shawan
- 12. Yaslilarin davranissal tepkilerinin mekansal kurgu üzerinden okunmasi; yaslilik kurumu örnegi (The elderly through the reading of spatial behavioral response; old age agency sample)
- The impact of formal properties on eye movement during the perception of architecture 13.
- An inquiry into the learning-style and knowledge-building preferences of interior architecture 14. students
- 15. Tabernakulis šiuolaikiniu bažnyciu architekturoje (Tabernacle modern church architecture)
- An ecological approach to the study of urban spaces: The case of a shantytown in Brasilia 16.
- Kauno centrines dalies nemuno slenyje miestovaizdžio architekturinis formavimas (The central 17. part of Kaunas Nemunas valley townscape architectural formation)
- Equilateral triangle and the Holy Trinity 18.
- 19. Recent Kuwaiti architecture: Regionalism vs. globalization
- Architektūros Ir Urbanistikos Objektų Natūros Tyrimų Metodikos Problemos (Architecture and 20. Urbanism kind of objects Research Methodology Problems)
- Structural assessment of heritage buildings 21.

- 22. between science and art)
- 23. Assessing perceived credibility of traditional and computer generated architectural representations
- Entropy and visual diversity in the environment 24.
- An architectural evaluation method for conservation of traditional dwellings 25.
- 26. attributes of workspace dividers
- 27.
- 28.
- 29.
- 30. The transitional space in the traditional urban settlement of Cyprus
- 31. visual characteristics using isovists
- 32. architecture as a result of interaction)
- 33.
- 34. University outdoor spatial layout effect on perception of students
- 35. Public participation around the world: Introduction to the special theme issue
- 36.
- 37. observers
- 38.
- 39. influence the country landscape spatial structure of individual identity)
- 40. and learning
- 41. design by optimization
- 42. Süleymaniye

Sovietinių metų paveldotvarkos darbai: tarp mokslo ir kūrybos (Soviet years of heritage works:

Architectural enclosure's effect on office worker performance: A comparison of the physical and symbolic

"New life" for defence military architecture: The case of the sighting towers in Basilicata Reconceiving historic preservation in the modern city: Conflict and consensus building in Atlanta Motionscape: The image of space in Motion (An attempt at conceptualization in the case of Ankara) Prospect-Refuge theory and the textile-block houses of Frank Lloyd Wright: An analysis of spatio-

Miesto architekturos savitumas kaip architekturos ir visuomenes sa veikos rezultatas (Urban identities of

In the shadow of Moscow: the Stalinist reconstruction of the capitals of the Soviet republics Use of laser-scanner as an intervention tool in fortifications: Santa Barbara Castle in Alicante Differences and similarities in perceptions of architectural representations: Expert and non-expert

Revitalizing a declining historic urban quarter - The Walled City of Famagusta, North Cyprus Lietuvos miestai, miesteliai ir kaimai: jų urbanistinių ir demografinių pokyčių įtaka šalies kraštovaizdžio erdvines struktūros savitumui (Lithuanian cities, towns and villages: the urban and demographic changes Education and the continuing professional education of architects: The role of satellite videoconferencing

Computer-aided design in urban development and management-A software for integrated planning and

The metamorphosis of a historical city: From the Byzantine city Argyropolis to the Ottoman neighborhood

Of the 42 documents, approximately ten seemed promising (bolded) for the topic of analyzing architectural drawing types and drawings, or on the relations between meaning and representation in architecture.

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The metamorphosis of a historical city: From the Byzantine city Argyropolis to the Ottoman neighborhood

Google Scholar-search

With the same search terms and operators as in the Scopus-search, the results were 5,630,000 when the words were anywhere in the article and 797,000 when the words appeared only in the title. The problem seemed to be the amount of times words like "architecture", "visual" and "meaning" etc. could drag up texts not affiliated with the subject at hand.

First search

To get a set of more concise results, the terms were set up in all possible configurations (still keeping their sequence) and tested for articles that had the words in their titles. The configurations were:

- A. "Architecture" "Image" "analysis"
- B. "Architecture" "drawing" "analysis"
- C. "Architecture" "image-type" "analysis"
- D. "Architecture" "drawing-type" "analysis"
- E. "Architecture" "presentation" "analysis"
- F. "Architectural" "Image" "analysis"
- G. "Architectural" "drawing" "analysis"
- H. "Architectural" "image-type" "analysis"
- I. "Architectural" "drawing-type" "analysis"
- J. "Architectural" "presentation" "analysis"

- K. "Architecture" "Image" "meaning"
- L. "Architecture" "drawing" "meaning"
- M. "Architecture" "image-type" "meaning"
- N. "Architecture" "drawing-type" "meaning"
- O. "Architecture" "presentation" "meaning"
- P. "Architectural" "Image" "meaning"
- Q. "Architectural" "drawing" "meaning"
- R. "Architectural" "image-type" "meaning"
- S. "Architectural" "drawing-type" "meaning"
- T. "Architectural" "presentation" "meaning"

The search produced a modest set of articles, mostly from sources, that didn't contain coherent sentences, let alone anything useful in their abstracts. But at least one of the publications was already familiar to me (nro.2), and of use, at least as background information.

### List of documents:

А.	1. Analysis of Architecture Aesthetic Image as a Medium for Cultural Inculturation in Catholic	К.	7. The Image-Meaning Relationship betwe
	Church (Case Study : Maria Assumpta Church in Klaten designed by Y.B. Mangunwijaya)	L.	-
В.	2. Envisioning architecture: an analysis of drawing	М.	-
С.	-	О.	-
D.	-	Р.	8. Differentiation between Architectural Ima
E.	3. Analysis to the Tendency of Technical Presentation in Architecture	Q.	-
F.	4. The Cognizance Analysis of the Architectural Image: The Plan of the Complex Building of the	R.	-
	Chinese PLA Information Engineering University	S.	-
	5. The Analysis of Cultural, Architectural and Artistic Factors of the City Image Formation	Т.	-
G.	6. Analysis and Realization of Expressive Form in Architectural Drawing		
Н.	-		
Ι.	-		
J.	_		

The search was useful only in highlighting the difficulty of a tightly targeted search using Google Scholar, and a second search was necessary.

een Tibetan Traditional Architecture and Religious Culture

age and Meaning of the Area to Reach

### Second search

I ran a second search using a more general set of terms, only Drawing AND Architecture, with the terms in the title and the operator "AND" denoting the need for both terms to be present. The search produced 81 articles as a result and of these 11 were of interest.

- 1. Drawing and perceiving: real-world drawing for students of architecture and design
- 2. Drawing and the Social Production of Architecture
- Natural Architecture and constructed forms: structure and surfaces from idea to drawing 3.
- 4. Architecture and the lost art of drawing
- 5. Thinking, drawing and writing architecture through metaphor
- 6. Architecture as Drawing, Perception and Cognition
- 7. Architecture and Drawing
- Drawing, reasoning and prejudice in Choisy's Histoire de l'architecture 8.
- The Carpenter and Joiner's Assistant: Being a Comprehensive Treatise on the Instruction in Practical Geometry, 9. Geometrical Lines, Drawing, Projection, and Perspective; and an Illustrated Glossary of Terms Used in Architecture
- Architecture by Tools: The Syntax of Drawing and the Creativity of Thought 10.
- Asignifying Semiotics as Proto-Theory of Singularity: Drawing is Not Writing and Architecture does Not Speak 11.

With the results of these different searches, a set of quite varied literature could be summed up, reviewed, and divided according to their possible uses in furthering the research. Link to Primo-portal - source for 11 Archives, 73 Libraries, 57 Museums. https://primo.aalto.fi

https://libguides.aalto.fi/en

# What have you found to be the most useful ways of finding images and art that you need?

**Open science and use of images: ImagOA guide** 



http://libguides.aalto.fi/c.php?g=659426&p=4654809

### **Open science and use of images: ImagOA guide**

The availability of the materials created in universities and polytechnics increases the quality and social impact of higher education institutions. In the absence of skills and knowledge about open access models, the materials will remain under-exploited and the material could often be used only within one course or publication due to copyright restrictions.

The project has led to the development of training and information material, as well as the arrangement of training sessions and information. The education and information materials help to ensure that the authors of the materials understand copyright. This will help to achieve the best possible use of the materials.

The project has created legal options for further use of materials and will increase their accessibility. The results of the project will contribute to the effectiveness of publicly funded copyrighted material in higher education institutions and in society in general.

http://libguides.aalto.fi/c.php?g=659426&p=4654809

2

Copyrights in Theses: from the ImagOA guide / Permitted Use of Images / Permitted Use in Theses

## **Requirements for using** images in a thesis

All contributors must be mentioned, for example, the photographer, architect, visual artist and performing artist. Provide the author information even if you have taken the picture yourself.

If there are identifiable people in a picture, the picture contains personal data. Personal data should be dealt with in accordance with the General Data Protection Regulations (GDPR). For more information see the section "Photographs as Personal Information" in the Guide.

Images made by others



. . . . . . . . . .

By citing under Section 25 of the Copyright Act, unless the terms of use prohibit it. In this case, the borrowed image must be public, the citing connected to the text, the text being a critical or a scientific presentation, and the purpose non-commercial. If the terms of the provision are not met, it may be possible to quote the picture under the general clause of Section 22

By citing under Section 22 of the Copyright Act, if the terms of use do not prohibit it. The borrowed image must be public and the quote in accordance with proper usage to the extent necessary for the purpose. The right to quote the image is narrowly interpreted, that is, there must be a very good reason why the image may be used without the permission of the rights holder.

Images made by others

Permitting Creative Commons licence (for example, CC BY 4.0) or other permission, such as permission granted by the rights holder in an e-mail.

When an image is utilised in a thesis using citation regulations or a permitting licence (such as CC BY 4.0), you can publish the thesis in a university's open electronic publishing archive, for example.

If the platform is something else, such as social media, the platform's terms of use have to be taken into account. When uploading to a social media site, the user gives virtually unlimited copyright to the service provider and the user's own publishing rights must be at least as extensive. The material published under the CC BY licence can be shared in social media, whereas the material published under the quotation regulation cannot.



You may use the images freely, provided their content does not violate the rights of others.

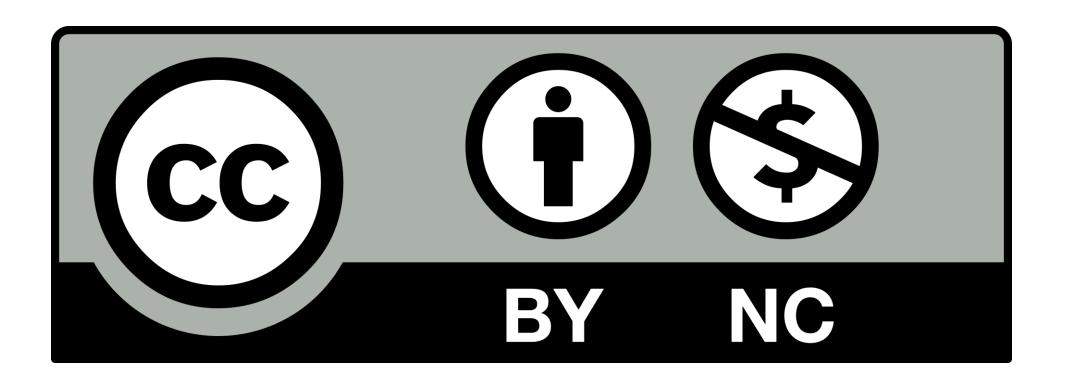
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Creative Commons (CC) licenses allow a copyright holder to express the terms under which their works are available for others to use. The latest CC 4.0 licensing system is almost universally applicable, and it also takes into account catalogue and database protection. It consists of four criteria that can be combined to define the use of the work:

Attribution (BY) The author's name must be mentioned. When a work is used, the name or the pseudonym of the author must be mentioned. The Attribution BY license is always part of each license combination. **Non-commercial (NC)** Not for commercial use. Permission from the copyright holder has to be obtained if the purpose of the use of the work yields economic benefit. **No Derivatives (ND)** Not modifiable. Permission from the copyright holder is required, for any modification of the work or for using only parts of the work. Share Alike (SA) Has to be shared with the same license, e.g. modified derivative work can only be shared with the same license as the original work.

Creative Commons: from the ImagOA guide / Creative Commons licenses / CC-licenses

By combining these four licences, six Creative Commons licenses are created, for example:



**BY-NC** Attribution-NonCommercial

Image Databases: from the ImagOA guide / Visual resources / Image databases

Visual resources are available in a variety of subjects and disciplines in memory organisations' extensive databases. Many of these also contain Creative Commons licensed material that is easily usable in teaching, learning or research.

It is good to remember that ordinary search engines cannot find the materials in these databases, so the native interfaces of the databases should be used.

Image Databases: from the ImagOA guide / Visual resources / Image databases / Int. image databases

In the following list resources marked with a heart symbol v contain wholly or partially openly licensed materials.

Access Ceramics ♥ archINFORM ♥ Artsy Art UK Bildindex der Kunst und Architektur Biodiversity Heritage Library ♥ Bridgeman Images **CERN** Multimedia and Outreach Database Courtauld Images Digital Public Library of America DPLA e-Museum Japan E-varamu (Estonian e-repository) ESA Space in Images ♥ Europeana Art History ¥ Europeana 🕈 Flickr Commons ¥ Freer Sackler, Smithsonian Institution ♥ Gallica - Bibliothèque nationale de France ¥

Getty Trust Open Content Program ♥ Google Art Project Joconde The Metropolitan Art Museum ♥ Museum of New Zealand ♥ The National Archives UK ♥ National Gallery of Art ♥ Nationalmuseets Samlinger Online ♥ NYPL Digital Collections ♥ Pixabay ♥ Rijksstudio ♥ SMK National Gallery of Denmark ♥ Tate Timeline of Art History Trove: National Library of Australia VDB - Video Data Bank Wellcome Images ♥



### print (colour woodcut): ["After Dinner"]



Garden scene with three women. Two of the women are seated at right. A third woman stands to the centre left, looking behind her and wearing a kimono which is blue and white, with a stripe and chevron pattern. Her obi is orange with a blue and white design. she tucks her right hand into her obi. The other two women sit in a covered seating area. One, sitting at right, wears a grey speckled kimono with black obi. A packet sits on her lap and she holds a cigarette holder(?). The woman sitting in the centre wears a blue and white striped kimono with blue and orange obi, of which only the part tied behind her can be seen. On her lap is a tray with a large handle, holding two vessels and another instrument. There are green plants in the garden and trees in the distance. A path is paved on the floor with irregular shaped stones, some with patterns. A gate with a thatched roof is in the background left.

Signature/stamps brc.

Two inscriptions in boxes at upper right.





### Emigration

first to leave...



### Calligraphy

View more

Subject of this object

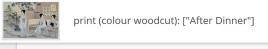
### **PREVIOUS ITEM**

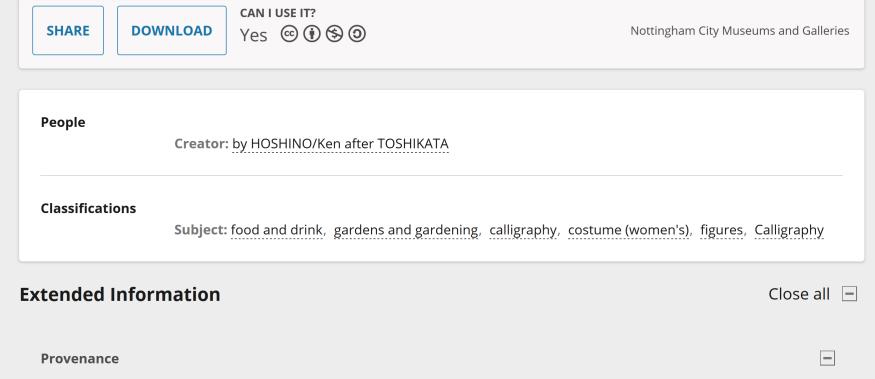


Off to Australia in the SS Ormonde , first linertroopship to be reserved exclusively for Australiabound migrant traffic , are forty boys and girls from Dr Barnardo's Garden City , Woodford Bridge , Essex . The party of twenty boys and twenty girls , is the



Calligraphy (from Ancient Greek: κάλλος kallos "beauty" and γραφή graphẽ "writing") is a visual art related to writing. It is the design and execution of lettering with a broad tip instrument or...





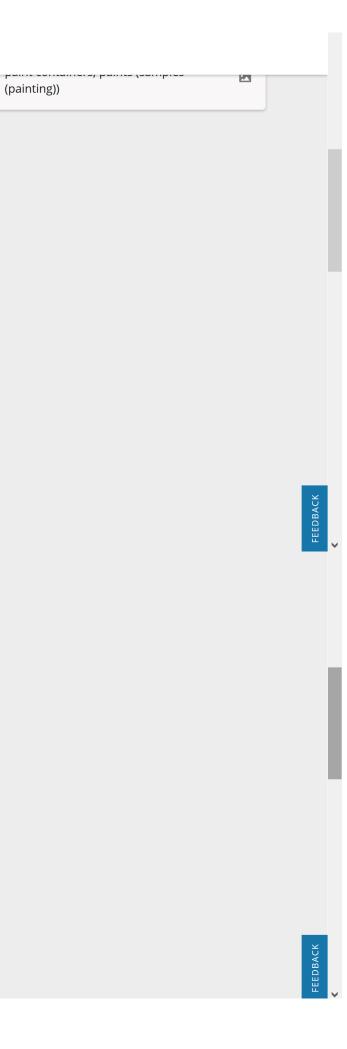
Identifier: NCM 1908-181 Institution: Nottingham City Museums and Galleries Provider: Europeana Food and Drink Providing Country: United Kingdom First Published In Europeana: 2016-04-08 Last Updated In Europeana: 2016-04-26

**References And Relations** 

**Dataset:** 2059516\_EU\_FD\_Collections\_Trust



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### **Resource portal to guides, databases, etc.**

Aalto University Learning Centre - Visual Resources Centre: VRC <u>http://libguides.aalto.fi/en</u>

### Other useful Image resources

Search engines that can be narrowed according to copyrights - targeting CC and material in the Public Domain.

Google advanced image search

**FlickrCreative Commons** 

Wikimedia Commons

What have you found to be the most useful ways of finding 'technical' drawings (architectural, structural, etc.) and design material?

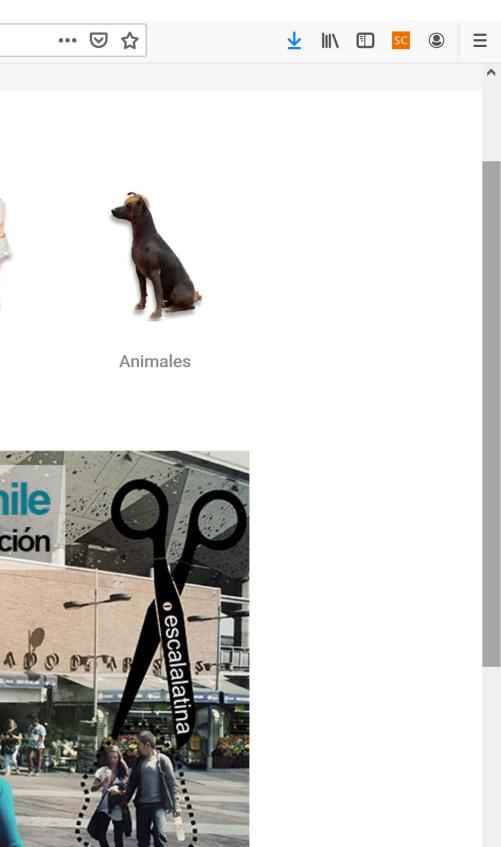
### Resources for building data and visualizations

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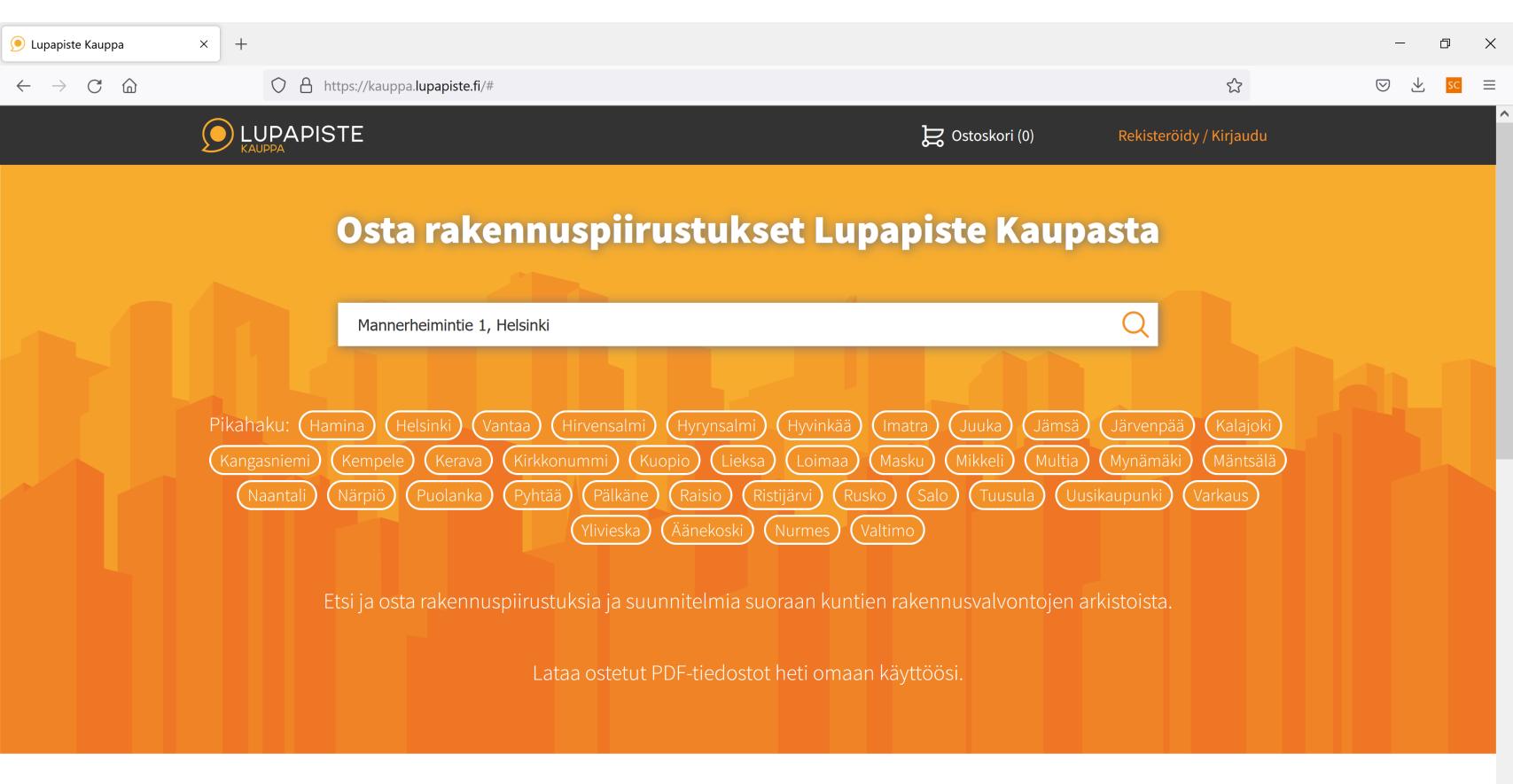
i www.escalalatina.com







Archives of Helsinki City Building Control Department <u>https://kauppa.lupapiste.fi/</u>

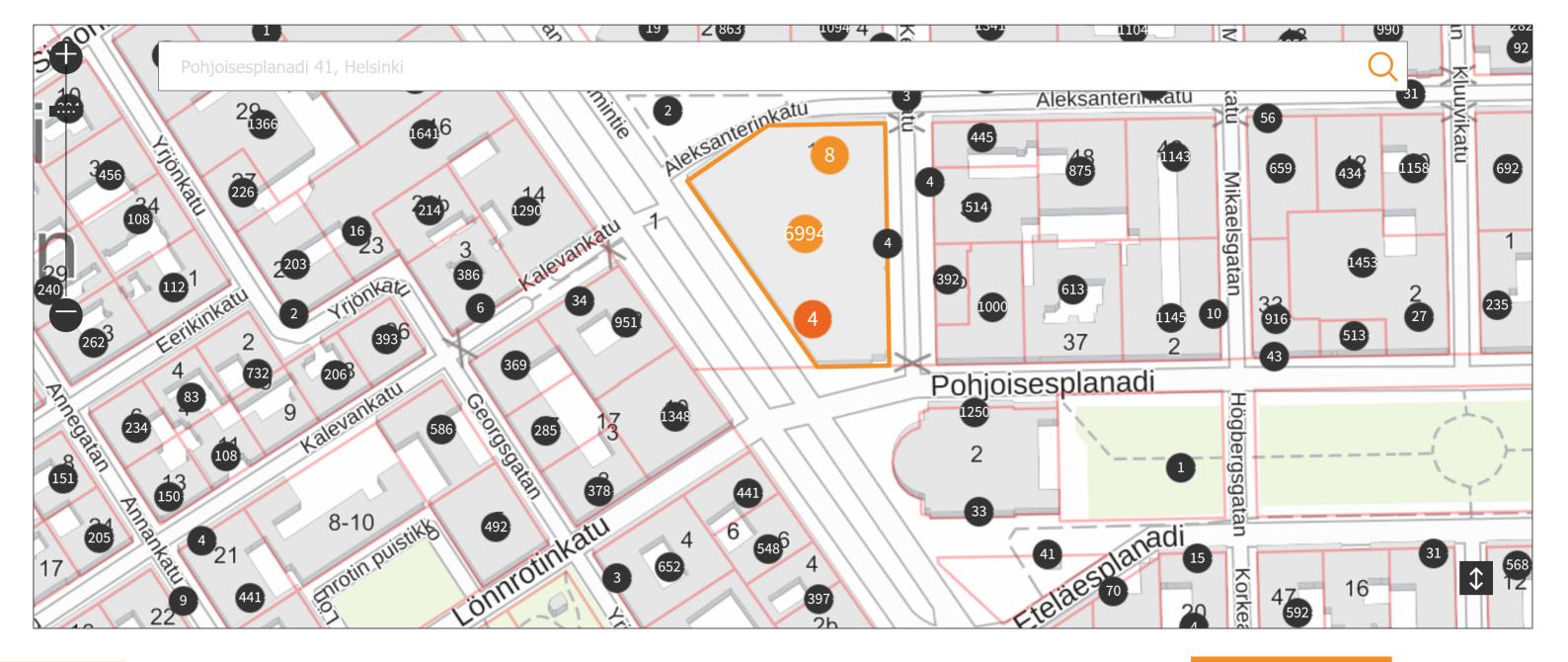


LUPAPISTE KAUPASSA KÄYVÄT SEURAAVAT MAKSUTAVAT:









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S

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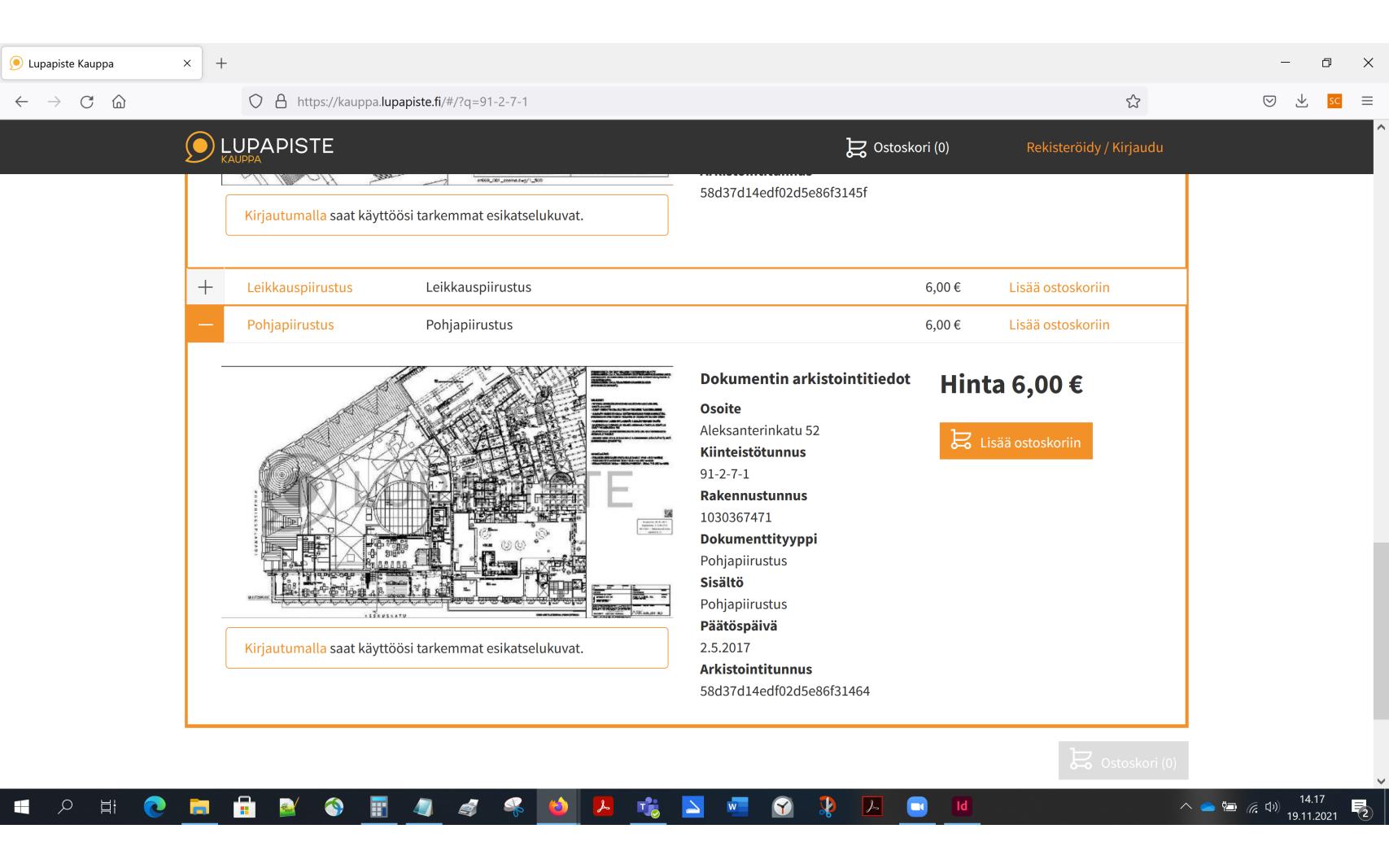


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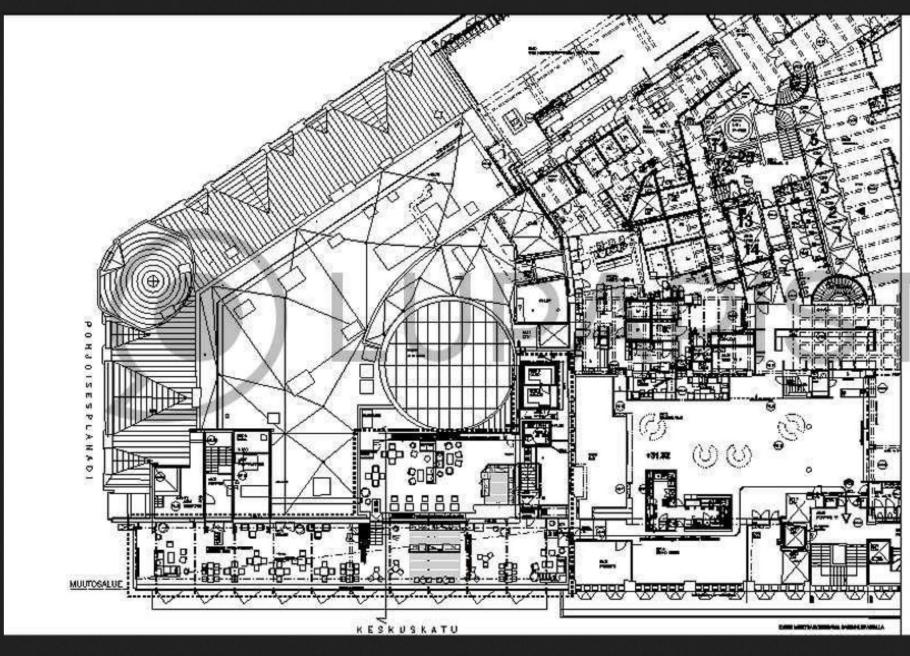
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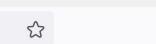
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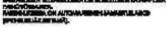
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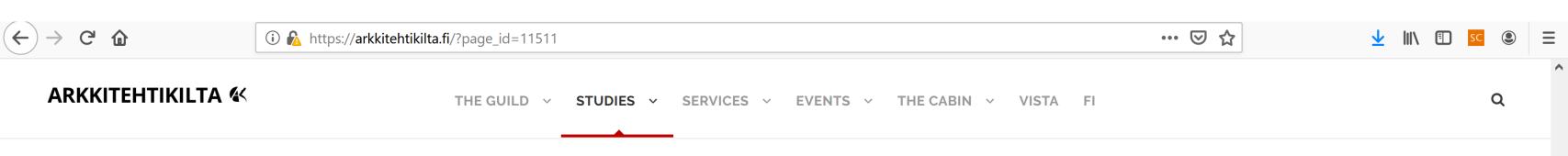


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The Guild of Architecture (student organization) tutorials & sourcematerial links https://arkkitehtikilta.fi/?page\_id=11511



The Guild of Architecture tutorials help when IT-teaching coughs. More tutorials are updated here when tipped.

Architect's Aid -Facebook-group

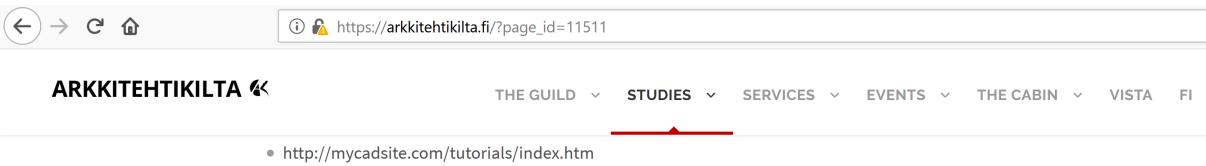
Aalto University Department of Architecture Facebook-group

### **Software**

### Archicad

• https://mad.fi/tuki/archicad

### Adobe Illustrator



### Autodesk 3ds Max

- http://knowledge.autodesk.com/support/3ds-max/learn-explore/caas/CloudHelp/cloudhelp/2015/ENU/3DSMax/files/GUID-5032AECC-D496-4588-9ADC-279FB65D71B5-htm.html
- Youtube-tutorials

### **Autodesk Revit**

• https://knowledge.autodesk.com/support/revit-products/getting-started?sort=score

### Model people, textures and other goodies...

- Skalgubbar
- Escala Latina
- CG Textures A broad library of textures. Free account, requires registration
- Designconnected.com High-quality paid 3D-furniture for rendering.
- Gobotree Picture library: Under "Cutout"-category a collection of quality scale people.
- Xoio-Air Free picture bank and 3D-materials.
- Ronenbekerman Visualisation blog with tutorials, links, tips and free materials.

### **Rhinoceros**

- http://www.rhino3d.com/support
- https://www.rhino3d.com/tutorials

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Other resources, textures, people etc. http://www.cgtextures.com http://designconnected.com http://www.gobotree.com http://xoio-air.de http://www.ronenbekerman.com

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Topographical data, open data

# What ways do you know for using open data in your projects or Thesis?

### **Topographical data, open data**

A number of different services and tools make use of available open data - with varying user interfaces and selections of data and information.

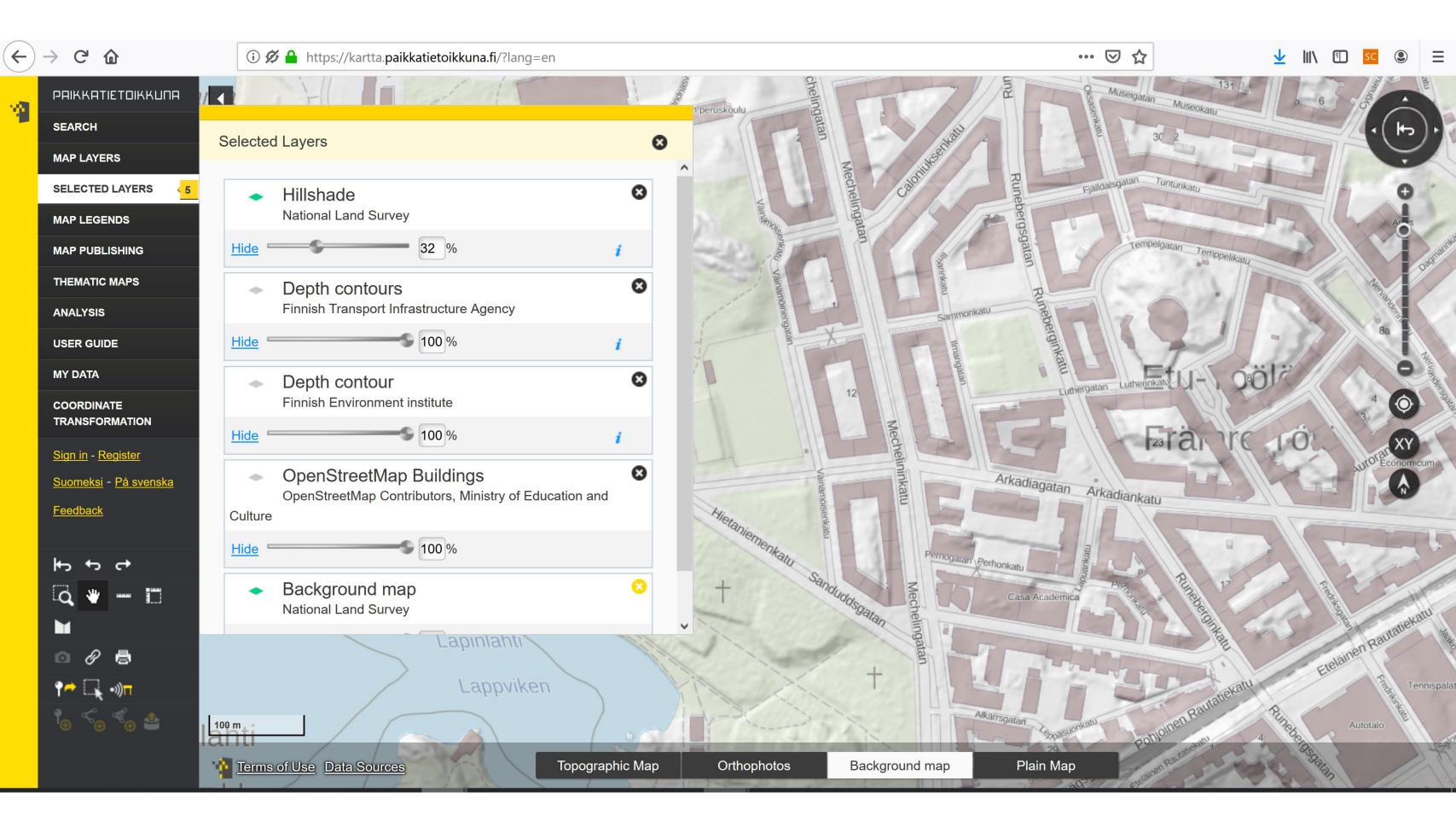
The 'Paikkatietoikkuna' - location information window https://kartta.paikkatietoikkuna.fi/?lang=en

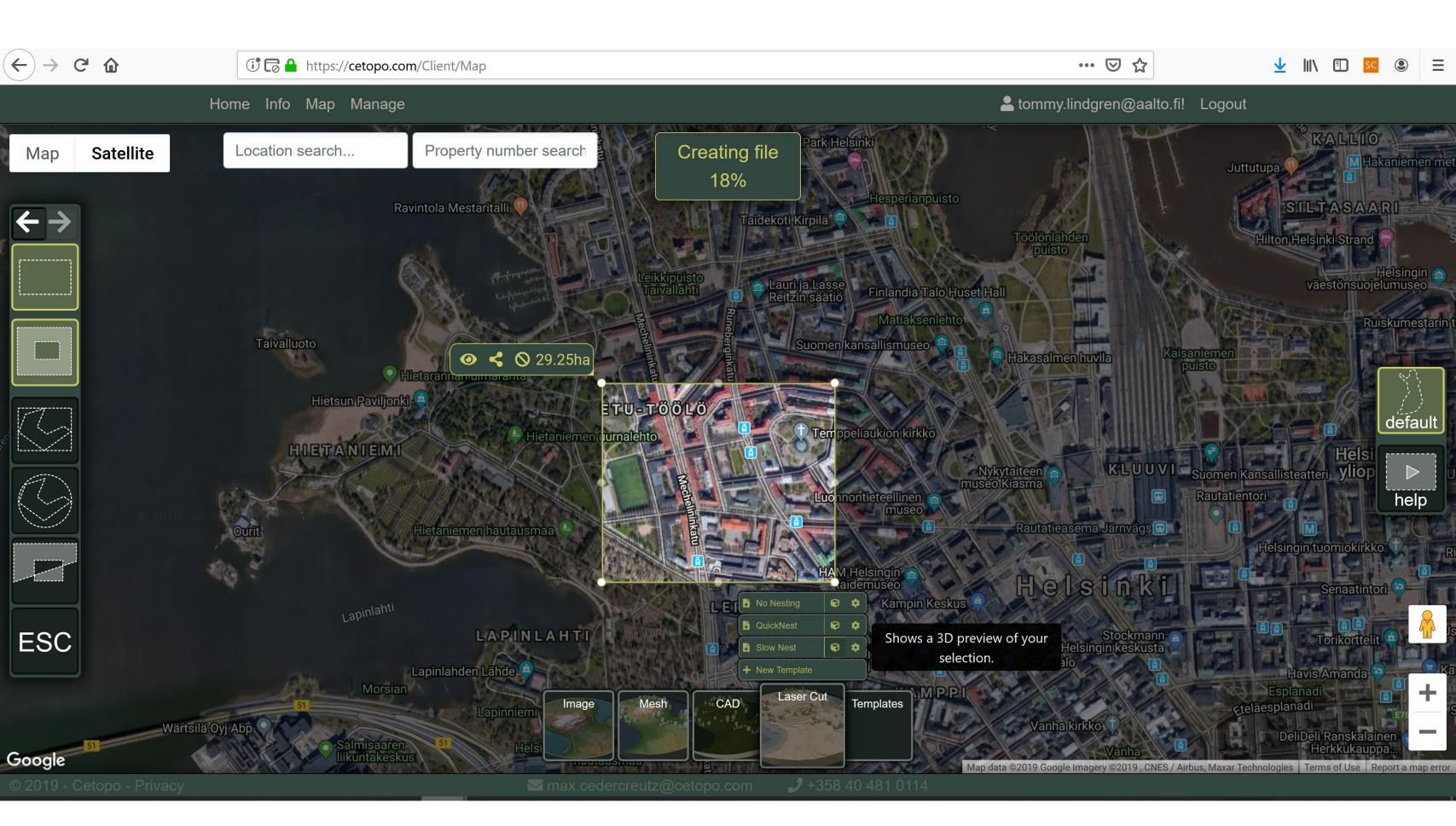
Geographic data materials - Helsinki https://www.hel.fi/helsinki/en/maps-and-transport/city-maps-and-gis/geographic-information-data

NLS - National Land Survey of Finland - 3D-map https://tiedostopalvelu.maanmittauslaitos.fi/tp/kartta?lang=en

3D-buildings of the City of Helsinki https://hri.fi/data/en GB/dataset/helsingin-3d-rakennukset

Easy interface for synthetizing geospatial data https://cetopo.com/





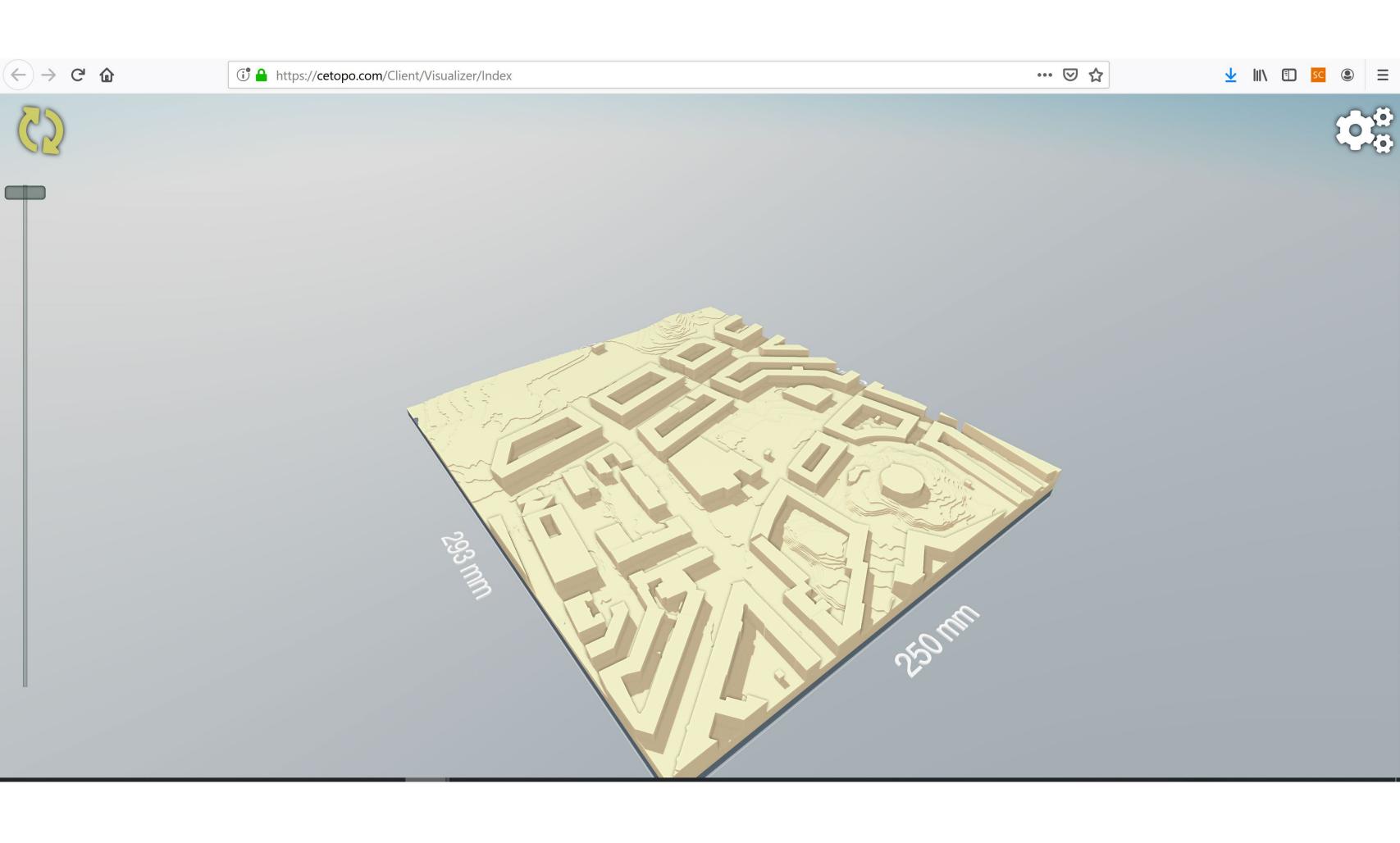
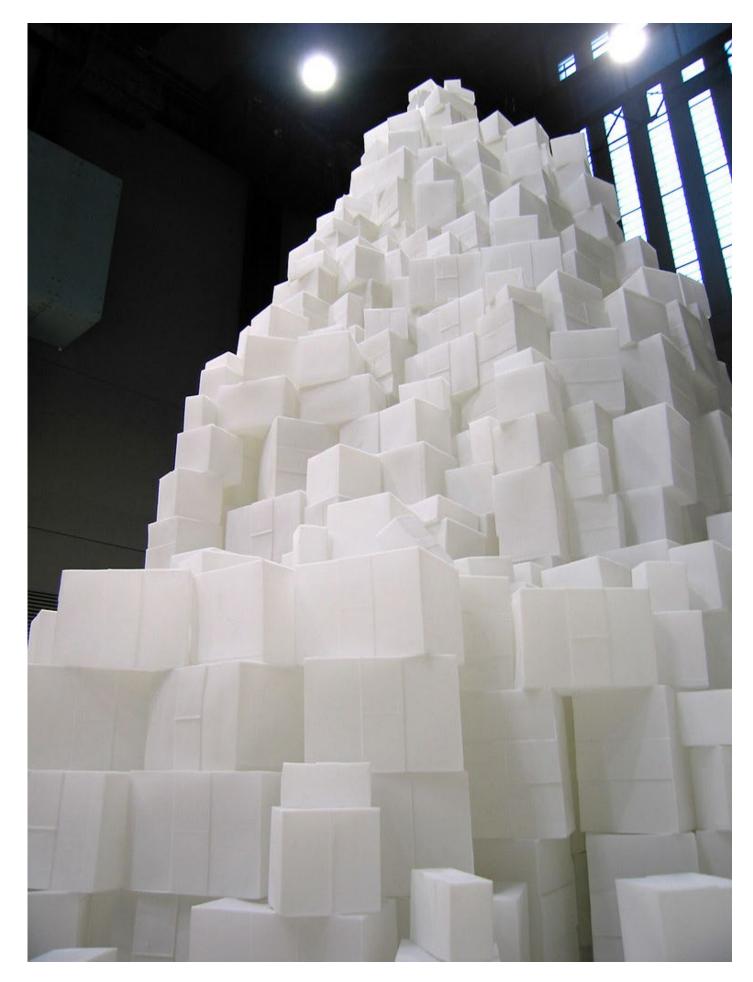


Image material, and its use

Drawings and technical drawings

Topographical data, open data



Rachel Whiteread: Embankment, 2006.

