

# Course Syllabus

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Prof. Victoria Sanger

vs31@columbia.edu

Architecture A4332

Tuesdays 1:00pm-3:00pm, 600 Avery Hall

Avery Library reserve shelf 407A-B, Oversize shelf 400A-B

## **European Urban Cartography 16th-19th Centuries\***

\*(subject to updates )

This course presents a critical period in the history of Western urban cartography. The sixteenth through the nineteenth century witnessed expansion and mechanization of cities and their maps evolving from the Age of Discovery and the invention of the printing press to the Industrial Revolution. We will analyze maps not as objective vehicles of data but rather as tools for planning, documenting, and governing while also being artistic and symbolic form in their own right. They are also works using different techniques made by graphic artists and craftsmen on paper and other media.

This semester, the class will focus on maps of New York City in comparison with a few major European cities. New York City was an extension of European urban mapping traditions through the eighteenth century and then in turn influenced European maps, for example with Fire Insurance maps in the nineteenth century. What does this tell us about European and American visual and urban culture? Students will work with originals and facsimiles in New York collections many of which we will visit on class trips (Avery Library, Map Division of the New York Public Library, Museum of the City of New York).

The format is part lecture, part reading discussion and map analysis. The first half of the semester will cover the different techniques of cartography and the major cartographers of the period across countries. The second half of the course will focus on Paris, London, and New York City (17- 19-century). Please come to class having done the assigned reading and reviewed the maps. I will bring facsimiles of maps to class and we will analyze them together. Participation is encouraged and welcome at all times.

## **Assignments:**

30%: In-class written exercises. Attendance (maximum 3 absences). Completion of Readings. Presentation

30% Paper précis, bibliography, catalogue entry and description of your chosen map (s).

40% Paper (due May 8, no extensions) analyze a paper map of a New York by itself or in comparison with a map of Paris or London. It should be an original or a facsimile and it can be one of the works presented in class. 15 pages of writing plus bibliography and labeled illustrations.

## **Course Schedule**

(assigned readings are all on Courseworks/Canvas under "Files". Physical books and facsimiles that are on the seminar shelf 407A-B or the oversized shelf 400A-B are indicated with an asterisk. Powerpoints will be added to Courseworks after each class)

### **1: January 21: Introduction.**

#### **Readings:**

J.B. Harley, "Maps, Knowledge and Power", in *The New Nature of Maps: Essays in the History of Cartography*, The Johns Hopkins University press, Baltimore and London, 2001, (1st ed. 1988), ch. 2 pp. 52-81

Svetlana Alpers, "The Mapping Impulse in Dutch Art," in *The Art of Describing: Dutch Art in the Seventeenth Century*, Chicago, University of Chicago Press, 2007, ch. 4, pp. 119-168

### **2: January 28: A survey of European urban cartography 1600-1900**

#### **Reading:**

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\*James Elliot, *The City in Maps: Urban Mapping to 1900*, The British Library, 1987.

### 3: Feb 4: Bird's Eye and Planimetric Formats

In class: write a one page description of one of the two maps below

#### Readings:

1. A. Pinto, "Origins and Development of the Ichnographic City Plan," *Journal of the Society of Architectural Historians*, Vol. 35, No. 1 (Mar., 1976), pp. 35-50

Jeurgen Schulz, "Jacopo de'Barbari's view of Venice: map making, city views and moralized geography before the year 1500," *Art Bulletin*, 60, 1978, 427-73

#### Examples:

\*Leonardo Bufalini, two facsimiles of *Pianta di Roma*, 1551 (oversize shelf 400A-B)

\*Jacopo de'Barbari, *La pianta prospettica di Venezia del 1500 disegnata da Jacopo de'Barbari*, Cassa di risparmio di Venezia, 1963 (oversize shelf 400A-B)

### 4: Feb 11 Military Maps

#### Reading

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Martha Pollak, "Military Architecture and Cartography in the Design of the Early Modern City," in \*David Buisseret ed., *Envisioning the City: Six Studies in Urban Cartography*, The University of Chicago Press, Chicago and London, 1998, ch. 4 pp. 109-124

Further reading: \*J.B. Harley, Barbara Bartz Petchenik, and Lawrence W. Towner, *Mapping the American Revolutionary War*, The University of Chicago Press, Chicago and London, 1978

## **5: Feb 18 Maps as works on paper**

**Attention: class will take place in Avery Classics.**

**Written exercise: fill in a sheet identifying a provided list of terms on the maps presented**

### Readings:

David Woodward, *Maps as Prints in the Italian Renaissance. Makers, Distributors & Consumers*, The British Library, 1995, pp. 20 – 74.

Mary Sponberg Pedley, *The Commerce of Cartography*, University of Chicago Press, Chicago, 2005. pp. 1-13, 24-25, 180-185, 198-204

Jane C. Ginsburg, e 1593 Antonio Tempesta Map of Rome, A HISTORY OF IP IN 50 OBJECTS, Dan Hunter and Claudy Op Den Kamp, editors ( Cambridge U. Press. 2018 Forthcoming); Columbia Public Law Research Paper No. 14-570 (2017). Available at: [https://scholarship.law.columbia.edu/faculty\\_scholarship/2077](https://scholarship.law.columbia.edu/faculty_scholarship/2077)

## **6: Feb. 25 1:30-3pm: Field trip to the New York Public Library at 42-Street. Meet in room 216, the Center for Research in the Humanities**

Visit the NYPL New York mapping websites:

Collections about New York City

<https://digitalcollections.nypl.org/collections/lane/collections-about-new-york-city> (Links to an external site.)

Atlases of New York City, Lionel Pincus and Princess Firyal Map Division, New York Public Library, digital collections, <http://digitalcollections.nypl.org/collections/atlas-of-new-york-city#/?tab=about> (Links to an external site.)

Maps of New York City and State, <https://digitalcollections.nypl.org/collections/maps-of-new-york-city-and-state#/?tab=navigation> (Links to an external site.)

Map Warper,

[http://maps.nypl.org/warper/maps?page=6&show\\_warped=1](http://maps.nypl.org/warper/maps?page=6&show_warped=1) (Links to an external site.)

## 7: March 3: Mapping New York

- Paper topics due, 2-4 pages (precis, bibliography, catalogue entry and visual description of map)
- Please sign up for a one on one meeting to discuss your paper topic the week of March 24

\*Paul E. Cohen, *Manhattan in Maps: 1527-1995*, 2006 -- Reserve shelf 403 A-B. Easily available for purchase.

\*Hilary Ballon, ed., *The Greatest Grid. The Master Plan of Manhattan 1811-2011*, Museum of the City of New York, Columbia U. Press, 2012.

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examples:

Johannes Vingboons/Joan Vinckeboons, *Plan and View of New Amsterdam* (also called Jacques Cortelyou, *The Castello Plan*, *Afbeelding Van de Stadt Amsterdan in Nieuw Neederlandt*) facsimile of 1650 map *The origins of New York*, Edition Seefeld, Paris, 1988.

John Randel, Jr., "A Map of the city of New York by the commissioners appointed by an act of the legislature passed April 3-1807, (commonly known as the Commissioners' Plan), 1811, New York City Municipal Archives.

<http://thegreatestgrid.mcnyc.org/greatest-grid/interactive-1811-plan>

Louis A. Risse, *General map of the city of New York, consisting of boroughs of Manhattan, Brooklyn, Bronx, Queens and Richmond: consolidated into one municipality by act of the legislature of the state of New York...* 1900, New York Public Library, Lionel Pincus and Princess Firyal Map Division. Digital collections:  
<https://digitalcollections.nypl.org/items/510d47e2-6f6e-a3d9-e040-e00a18064a99#/?uuid=9e73fae8-2c67-d4b1-e040-e00a18062a71>

**March 10: No class (Kinne Travel).**

**March 17: Spring Break**

**8: March 24: Paris**

**Student meetings this week**

Reading:

Catherine Bousquet-Bressolier, "Matthäus Merian's 1615 Map of Paris: Its Structure, Decoration and Message," in *Imago Mundi*, Vol. 58, no. 1, 2006, pp. 48-69

Antoine Picon, Nineteenth-Century Urban Cartography and the Scientific Ideal: The Case of Paris, *Osiris*, 2nd Series, Vol. 18, Science and the City. (2003), pp. 135-149

examples:

Georg Braun and Franz Hogenberg, Paris, in *Civitates orbis terrarum*, 1572, map I-7

[\*Civitates orbis terrarum = Cities of the world : 363 engravings revolutionize the view of the world : complete edition of the colour plates of 1572-1617 / Georg Braun and Franz Hogenberg ; edited by Stephan Füssel ; based on the copy in the Historisches Links to an external site.\*](#) Köln : Taschen, c2008. (facsimile: Avery AA9000 B7311 F). Reserve shelf 403

<http://www.oldmapsofparis.com>

Jacques Gomboust, *Le Paris du XVIIe siècle. Plan monumentale de la ville de Paris dédié et présenté au roy Louis XIV*(1653), (facsimile: Avery AA9198 P2 G58 F) -- reserve shelf 400 A-B

<http://www.geographicus.com/P/AntiqueMap/Paris-gomboust-1900>

Turgot, Louis Bretez, [\*Plan de Paris, commencé l'année 1734.\*](#) [Links to an external site.](#) Paris? 1739 (Avery Classics AA1045 and Avery in facsimile AA1045 B7511 FF-- Reserve Shelf 400 A-B)

[http://cartocassini.free.fr/planville/paris/turgot/turgot\\_11.htm](http://cartocassini.free.fr/planville/paris/turgot/turgot_11.htm) ([Links to an external site.](#))

Meunier, P. Rouillier, *Paris en mai 1871. Plan indiquant les opérations de l'armée contre l'insurrection*, Paris, 1872

<http://gallica.bnf.fr/ark:/12148/btv1b53085566g.r=plan%20indiquant%20les%20operations%20de%20l%27arm%e9e%20contre%20l%27insurrection>

Jacques Bertillon, *Album de Statistique Graphique de la ville de Paris, ann%e9e 1889*, Paris, ca. 1891

<http://gallica.bnf.fr/ark:/12148/btv1b52505495j.r=Jacques%20bertillon%20atlas%20de%20statistique> (Links to an external site.)

## 9: March 31: London and British Maps

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### examples

*Ralph Agas, Civitatas Londinum*, Fac-Simile from the original in the possession of the Corporation of the City of London, London, Adams and Francis, 1874. Reserve Shelf 400. \**The A to Z of Elizabethan London*, London Topographical Society, Publication No. 122, 1979

William Morgan and John Ogilby, *A large and accurate map of the City of London : Ichnographically describing all the streets, lanes, alleys, courts, yards, churches, halls and houses / actually surveyed and delineated by John Ogilby* 1976. \**The A to Z of Restoration London, (the City of London, 1676)* London Topographical Society, 1992.

\*John Rocque, *A Plan of the Cities of London and Westminster and Borough of Southwark, with the Contiguous Buildings, from and actual Survey taken by John Rocque, Land-Surveyor and Engraved by John Pine*, 1746 \* Hyde, Ralph. *The A to Z of Georgian London*. London: London Typographical Society, 1982.

*Locating London's Past*, British Society for Eighteenth Century Studies, 2011 (Trans-historical map comparison including Rocque.

<http://www.locatinglondon.org/static/MolaArchaeology.html> )

Map by John Snow - Published by C.F. Cheffins, Lith, Southampton Buildings, London, England, 1854 in Snow, John. *On the Mode of Communication of Cholera*,

2nd Ed, John Churchill, New Burlington Street, London, England, 1855. Text on reserve shelf 403 A-B. Another copy in Butler Rare Book AIGA 1937 6. Online version at the Bibliothèque nationale de France:  
<https://gallica.bnf.fr/ark:/12148/bpt6k856189z/f5.planchecontact>

Charles Booth assisted by Jesse Argyle, *Life and Labour of the People in London*, London and New York, Macmillan and Co., 1902, 8 vols. Charles Booth Online Archive through the London School of Economics and Political Science and the Senate House Library. [http://booth.lse.ac.uk/cgi-bin/do.pl?sub=view\\_booth\\_and\\_barth&m.l=4&m.d.l=3&m.p.x=9495&m.p.y=8378&m.p.w=500&m.p.h=309&m.p.l=4&m.t.w=128&m.t.h=80&b.v.x=287&b.v.y=189&b.p.x=16310&b.p.y=11731&b.p.w=500&b.p.h=309&b.p.l=5&b.p.p.l=6](http://booth.lse.ac.uk/cgi-bin/do.pl?sub=view_booth_and_barth&m.l=4&m.d.l=3&m.p.x=9495&m.p.y=8378&m.p.w=500&m.p.h=309&m.p.l=4&m.t.w=128&m.t.h=80&b.v.x=287&b.v.y=189&b.p.x=16310&b.p.y=11731&b.p.w=500&b.p.h=309&b.p.l=5&b.p.p.l=6) (Links to an external site.)

**10. April 7: Student presentations OR trip to the Museum of the City of New York, permanent exhibition and *Who We Are***

**11: April 14: Student presentations**

**12: April 21: Student presentations**

**May 8: Final paper due. No extensions. 15 pages not including bibliography illustrations.**

## **Bibliography**

(This is not an exhaustive bibliography, but it has essential sources that students must look at when researching. Suggestions are welcome)



## General Cartography

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Mauricio Giraldo Arteaga, *From Paper Maps to the Web: A DIY Digital Maps Primer*, <https://www.nypl.org/blog/2015/01/05/web-maps-primer> (Links to an external site.)

Jeremy Black, *Metropolis. Mapping the City*, Bloomsbury, London, 2015.

Martin Brückner, *The Social Life of Maps in America, 1750-1860*. Published by the Omohundro Institute of Early American History and Culture and the University of North Carolina Press. Williamsburg, Virginia: Omohundro Institute and University of North Carolina Press, 2017. <https://search-ebscohost-com.ezproxy.cul.columbia.edu/login.aspx?direct=true&db=e025xna&AN=1622306&site=ehost-live&scope=site>.

\*David Buisseret, ed., *Envisioning the City: Six Studies in Urban Cartography*, The University of Chicago Press, Chicago and London, 1998

David Buisseret, *The Mapmakers' Quest: Depicting New Worlds in Renaissance Europe*, Oxford University Press, 2003. Butler GA781.B85 2003

\*Catherine Delano-Smith and Roger J.P. Kain, *English Maps: A History*, University of Toronto Press, 1999, Avery AA9185 D37

Cesare De Seta, *Ritratti di città. Dal Rinascimento al secolo XVIII*, Giulio Einaudi, ed., Turin, 2011.

Ruth Eaton, *Ideal Cities. Utopianism and the (Un) Built Environment*, Thames and Hudson, 2001.

James Elliot, *The City in Maps: urban mapping to 1900*, The British Library, 1987.

J.B. Harley and David Woodward, eds., "Cartography in the European Renaissance," *The History of Cartography*, University of Chicago Press, 2007, vol. I-III on line on Clio. (Through the Renaissance). Vol I-III, VI online at <http://www.press.uchicago.edu.ezproxy.cul.columbia.edu/books/HOC/index.html>

Vol. IV (17th and 18th C), Vol. V (19thC) forthcoming.

Katharine A. Harmon, *You are Here: Personal geographies and other maps of the imagination*, New York, Rizzoli, 1994 Avery AA520 R4721

Erkki Huhtamo, *Illusions in Motion, Media Archaeology of the Moving Panorama and Related Spectacles*, MIT Press, Cambridge, Mass. and London, 2013.

"Maps. Resources" in *World History Sources*, A project of the Center for History and New Media, George Mason University, with support from the National Endowment for the Humanities and the Gladys Krieble Delmas Foundation © 2003-2005 center for history & new media

<http://chnm.gmu.edu/worldhistorysources/unpacking/mapsonline.php>

NYPL Map

Warper: [http://maps.nypl.org/warper/maps?page=6&show\\_warped=1](http://maps.nypl.org/warper/maps?page=6&show_warped=1) (Links to an external site.)

University of Portsmouth, UK, Klokan Technologies GmbH, Switzerland, Old Maps online <http://www.oldmapsonline.org/>

Michael Gonchar, "Lesson Plan/ Analyzing Maps to Better Understand Global Current Events and History," The Learning Network, in *New York Times*, January 13, 2016 [http://mobile.nytimes.com/blogs/learning/2016/01/13/lesson-plan-analyzing-maps-to-better-understand-global-current-events-and-history/?em\\_pos=small&emc=edit\\_in\\_20160114&nl=learning-network&nl\\_art=1&nlid=9261753&ref=headline&te=1&referer=](http://mobile.nytimes.com/blogs/learning/2016/01/13/lesson-plan-analyzing-maps-to-better-understand-global-current-events-and-history/?em_pos=small&emc=edit_in_20160114&nl=learning-network&nl_art=1&nlid=9261753&ref=headline&te=1&referer=) (Links to an external site.)

Thomas Schlereth, *Past Cityscapes: The Uses of Cartography in Urban History*, Issue 1, Newberry Library, 1980

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## **Military Maps**

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Jeremy Black, *Maps of War: Mapping Conflict through the Centuries*, Bloomsbury, London, Oxford, New York, New Delhi, Sydney, 2016

Antoine Bousquet, *The Eye of War: Military Perception from the Telescope to the Drone*, University of Minnesota Press, 2018

\*David Buisseret “Modelling Cities in Early Modern Europe,” in Buisseret, ed., *Envisioning the City: Six Studies in Urban Cartography*, The University of Chicago Press, Chicago and London, 1998, pp. 125-143

Yolande Hodson, *George III’s Collection of Military Maps*, Royal Collection Trust

<https://militarymaps.rct.uk> (Links to an external site.)

Emilie d’Orgeix and Isabelle Warmoes, *Atlas militaires manuscrits (XVIIe – XVIIIe siècles)*, BnF Editions, Ministère des Armées, 2017

\*Martha Pollak, *Military architecture, cartography & the representation of the early modern European city: a checklist of treatises in fortification in the Newberry Library*, Chicago, The Newberry Library, 1991.

Martha Pollak “Representations of the City in Siege Views of the Seventeenth Century: The War of Military Images and Their Production,” in James D. Tracy, ed., *City Walls: the Urban Enceinte in Global Perspective*, Cambridge University Press, 2000, ch. 19. Avery AA490 C49

*Orbis terrarum: ways of world-making: [Museum Plantin-Moretus and surroundings, 22.06-24.09.2000: a project organized by Antwerpen Open and Museum Plantin-*

*Moretus*], Ghent: Ludion; Antwerpen: Antwerpen Open, Museum Plantin-Moretus, 2000.  
Cf. "Orbis" pp. 264-279

Victoria Sanger, "J'ai du bon tabac et tu n'en auras pas: Plans en Reliefs, Power, and Elitism in Ancien Régime France," Jean-Marc Besse, ed., *Opérations cartographiques*, Actes Sud, 2016. Mss. English translation on Canvas.

## Examples of Digital and Mapping Websites

Sarah McPhee, *Envisioning Baroque Rome*, Emory Center for Digital Scholarship

3-D reconstruction of the maps and views of Giovanni Battista Falda's views and maps of Rome ca. 1676 using the gaming platform

Unity, <https://www.barquerome.org/portal/> (Links to an external site.)

"Interactive Nolli Map Project," "Giuseppe Vasi's Rome," "Rodolfo Lanciani Digital Archive," "Forma Urbis Romae" *Mapping Rome*, collaborative project University of Oregon, Dartmouth College, Stanford University, Studium Urbis,

<http://mappingrome.com/> (Links to an external site.)

## Print analysis

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William M. Ivins, *How prints look : photographs with commentary*/ William M.

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c1987. Avery NE850 Iv531

Susan Lambert, *Prints Art and Techniques*, V&A Publications, 2001.

Metropolitan Museum of Art, "What is Printmaking?"

[https://www.metmuseum.org/about-the-met/curatorial-departments/drawings-and-prints/materials-and-techniques/printmaking?utm\\_source=MetNews&utm\\_medium=email&utm\\_campaign=2019\\_0206\\_Met\\_MetNews\\_Feb](https://www.metmuseum.org/about-the-met/curatorial-departments/drawings-and-prints/materials-and-techniques/printmaking?utm_source=MetNews&utm_medium=email&utm_campaign=2019_0206_Met_MetNews_Feb), accessed 2/6/2019

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David Woodward, *Maps as Prints in the Italian Renaissance. Makers, Distributors & Consumers*, The British Library, 1995, pp. 20 – 74.

## **Renaissance**

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Mario Carpo, *The Alphabet and the Algorithm*, MIT Press, 2011. On Alberti. Available online through Clio

*The Renaissance from Brunelleschi to Michelangelo: the Representation of Architecture*, New York, Rizzoli, 1994. Avery AA520 R4721

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David Pinkney, [Napoleon III and the Rebuilding of Paris \(Links to an external site.\)](#). Princeton, N. J. : Princeton University Press, 1958. (includes good general history of Paris in the Middle Ages)

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[http://canadp-archivesenligne.paris.fr/documents\\_figures/\\_plans\\_parcellaires/docfig\\_pp\\_1\\_recherche.php](http://canadp-archivesenligne.paris.fr/documents_figures/_plans_parcellaires/docfig_pp_1_recherche.php)

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Sound Atlas of Paris in the 18th C based on historical documents and maps

## **London and Britain**

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<http://www.gutenberg.org/files/40274/40274-h/40274-h.htm>

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<https://digitalcollections.nypl.org/collections/lawrence-h-slaughter-collection-of-english-maps-charts-globes-books-and-atlases#/?tab=navigation> (Links to an external site.)

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-excellent source layering historical maps

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Maps of New York City and State

<https://digitalcollections.nypl.org/collections/maps-of-new-york-city-and-state#/?tab=navigation> (Links to an external site.)

New York Historical Society current exhibition: *Who We Are: Visualizing NYC by the Numbers* (Through July 19, 2020)

## Periodicals

JSTOR

*Imago Mundi*, Berlin, 1935-present

<https://www.tandfonline.com/loi/rimu20> (Links to an external site.)

Available online through JSTOR and Taylor and Francis

*The Portolan Journal* by the Washington Map Society

- See the website from their temporary exhibit at Cornell University, Persuasive Cartography: The PJ Mode Collection <https://persuasivemaps.library.cornell.edu> (Links to an external site.)
- Index to the Journal  
[http://www.washmapsociety.org/000/0/9/8/22890/userfiles/file/Contents\\_1-106\\_with\\_index.pdf](http://www.washmapsociety.org/000/0/9/8/22890/userfiles/file/Contents_1-106_with_index.pdf)

*The Cartographic Journal*,

<https://www.tandfonline.com/toc/ycaj20/current> (Links to an external site.)

*Journal of Map & Geography Libraries*,

<https://www.tandfonline.com/loi/wmgj20> (Links to an external site.)

European Science Foundation, *Mapping Europe's Historic Boundaries and Borders: An Exploratory Workshop*

<http://www.geog.port.ac.uk/hist-bound/>

### Mapping resources

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<https://mapwarper.net>

Map Warper: Allows layering up and rectifying of historical maps onto modern maps.

Columbia Center for Spatial Research, <http://c4sr.columbia.edu>

Tutorials, publications and information about 19th-21C mapping and data

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### Film

Tim's Vermeer, 2013 documentary by Teller about Vermeer's scientific approach to painting

A Day on the Grand Canal with the Emperor of China -- David Hockney film about Chinese landscape and cartography. <http://vimeo.com/103808381>