

Which Came First, the Chicken or the Egg? Sequences and Genealogies in between Architecture and Design for a Global History

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Back to the Future The Future in the Past



ICDHS 10th+1
BARCELONA 2018

Conference Proceedings Book
Oriol Moret (ed.)

ICDHS 10th+1 Conference / Barcelona 2018

o Opening Pages



In memory of Anna Calvera (1954–2018)

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Back to the Future

The Future in the Past

ICDHS 10th+1 BARCELONA 2018

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1.5 **[100th Anniversary of the Bauhaus Foundation]: Tracing the Map of the Diaspora of its Students**

Haruhiko Fujita *Ōsaka Daigaku*
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1.6 **Design History: Gatekeeper of the Past and Passport to a Meaningful Future?**

Helena Barbosa *Universidade de Aveiro*
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1.7 **Constructivism and Deconstructivism: Global Development and Criticism**

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1.9 **Design Museums Network: Strengthening Design by Making it Part of Cultural Legacy**

Pilar Vélez *Museu del Disseny de Barcelona*

1.10 **Types and Histories: Past and Present Issues of Type and Book Design**

José M. Cerezo *Cerezo Design, Madrid*
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2.1 **Design Aesthetics: Beyond the Pragmatic Experience and Phenomenology**

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2.3 **Digital Humanities: How Does Design in Today's Digital Realm Respond to What We Need?**

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2.4 **Design Studies: Design Methods and Methodology, the Cognitive Approach**

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TABLE OF CONTENTS

0 ____ OPENING PAGES

Introduction

Anna Calvera / ICDHS 10 th +1 Scientific Committee. <i>ICDHS 2018</i>	17
Oriol Moret. <i>Foreword forwards</i>	19

Tribute

ICDHS Board. <i>Anna Calvera (1954–2018) and the ICDHS Legacy</i>	23
---	----

Keynote Lectures

#1—Mireia Freixa. <i>Industrial Arts vs Arts and Crafts: Parallels and Contrasts Between Catalonia and Great Britain in the 19th and 20th Centuries</i>	29
#2—Alain Findeli and Nesrine Ellouze. <i>A Tentative Archeology of Social Design</i>	37
#3—Pilar Vélez. <i>The Museu del Disseny de Barcelona: Heritage, a Resource at the Service of Knowledge, Debate and Social Challenges</i>	41
#4—Fedja Vukić. <i>A Theory Good Enough for Design Practice?</i>	47

I ____ DESIGN HISTORY AND HISTORIES OF DESIGN

I.1 Territories in the Scene of Globalised Design: Localisms and Cosmopolitanisms

Anna Calvera, ICDHS 10 th +1 Scientific Committee / Anders V. Munch. <i>Introduction</i>	62
Anna Calvera and Isabel Campi. <i>From Local to Global: Roca Corporation's First 100 Years. The history of a company producing bathroom fittings and goods to spread comfort, hygiene, wellbeing and salubriousness worldwide</i>	63
Deniz Hasırcı and Zeynep Tuna Ultav. <i>The Emergence of a Field in a Local Context: The Initial Steps of Interior Architecture in Turkey</i>	68
Mariko Kaname. <i>The Development of the British Avant-Garde and Print Media in the Early 20th Century: In Reference to Vorticism</i>	73
Josep M. Fort. <i>Mediterranean Design. Background and References of the Barcelona-Design System</i>	77
Yoshinori Amagai. <i>Japanese Concepts of Modern Design in the 1950s: With Special Reference to Isamu Kenmochi and Masaru Katsumie</i>	81
María Ximena Dorado and Juan Camilo Buitrago. <i>From Developmental Design to Design by Itself. Modernity and Postmodernity in Colombian Design</i>	85
Tomoko Kakuyama. <i>The Acceptance of Ornament in Modern Design: Kineticism and the Vienna Workshops in the 1920s</i>	89
Annette Svanecklink Jakobsen. <i>Local Encounters with Glass: Material Intensities in Sanaa's Architecture</i>	93
Alfonso Ruiz. <i>From Avant-garde to Regionalism: The Strange Case of Rationalist Architecture in the Canary Islands</i>	97
Nieves Fernández Villalobos and Begoña López de Aberasturi De Arredondo. <i>Glocal Design in Spain. Challenge and Opportunity</i>	102
Hiroka Goto. <i>Cutting and Sewing East Asia in British Art Deco Fashion</i>	107
Meghen Jones. <i>American Potters' Interventions with the Tea Bowl: Using Thing Theory to Problematize Cultural Appropriation</i>	111
Viviane Mattos Nicoletti and Maria Cecilia Loschiavo dos Santos. <i>Design as Mediator in the Process of Commodification of Vernacular Artifacts in Brazil</i>	116
Suna Jeong and Min-Soo Kim. <i>The Meaning of Integrated Fonts in a Local Standpoint – Between Harmonization and Homogenization</i>	121
Marina Parente and Carla Sedini. <i>Design as Mediator Between Local Resources and Global Visions. Experiences of Design for Territories</i>	125

I.2 Designing the Histories of Southern Designs

Anna Calvera, ICDHS 10 th +1 Scientific Committee / Priscila L. Farias, Wendy S. Wong and Tingyi S. Lin. <i>Introduction</i>	138
Juan Camilo Buitrago. <i>ALADI (Latin American Design Association) as an Interpretive Community</i>	139
María Alcántara. <i>Globalization and National Identity in Mexican Design</i>	144

Diana María Hurtado Trujillo. <i>Historiography of Industrial Design in Colombia</i>	149
Lucas do M. N. Cunha, Felipe Kaizer and João de Souza Leite. <i>National Design and Desenho Industrial: Brazilian Issues in Historical Perspective</i>	153
Sergio Rybak. <i>Redefinition of the Origin of the History of Industrial Design in Argentina</i>	157
Cristina Cavallo. <i>Challenges for a Project Education: Art-recycling and Popular Expression in Brazilian Material Culture</i>	162
Maria Beatriz Ardinghi. <i>Material Culture in the State of São Paulo, Brazil, through Memorable Household Artifacts</i>	167
Laura Cesio, Mónica Farkas, Magdalena Sprechmann and Mauricio Sterla. <i>Designing the Historical Construction of Design Culture and Visual Communication from the South: The Development of a Design Field in Uruguay from a Historical-Critical Perspective</i> .	172
Josep Puig. <i>Perceiving the Future: Experimental Design at ELISAVA 1986–1992</i>	177
João de Souza Leite. <i>A Two-folded Source of Brazilian Modern Visual Design</i>	182
Eduardo Castillo. <i>Francisco Otta: A Multidisciplinary Pioneer in 20th Century Chile</i>	187
Silvia García González. <i>Graphic Design of Rogério Duarte and the Tropicalismo Movement in Brazil</i>	191
Francesco E. Guida. <i>A Restless Soul. The Intellectual, Critical and Design Contributions of Almerico De Angelis</i>	195
Carola Ureta and Pedro Álvarez. <i>The Influence of Art Nouveau in the Graphic Work of Chilean Illustrator Luis Fernando Rojas</i>	200
Julia Contreiras and Clíce de Toledo Sanjar Mazzilli. <i>Cecília Jucá, Graphic Artist: The Books 1ª Paca and Escritura, by the Hands of the Author</i>	205

1.3 Mediterranean-ness: An Inquiry into Design and Design History

Anna Calvera, 1CDHS 10 th +1 Scientific Committee / Tevfik Balcıoğlu, Marinella Ferrara and Tomas Macsotay. <i>Introduction</i>	218
Rossana Carullo and Antonio Labalestra. <i>Sifting Time Between Design and the History of Design. Rites and Metaphors of the Ground for New Conceptualizations of the Mediterranean Identity</i>	221
Marinella Ferrara and Anna Cecilia Russo. <i>Mediterranean-ness Between Identity and Genius Loci. The True Essence of Successful Design Stories</i>	226
Chiara Lecce. <i>Italian Design for Colonial Equipment (1931–1942)</i>	231
Assumpta Dangla. <i>Fabrics of Barcelona: The Future in the Past</i>	236
Maria Isabel del Río. <i>The Contribution of Jordi Vilanova to the Identity of a Mediterranean Character in Spanish Design</i>	241
Vera Renau. <i>The Design Phenomenon in Castellón: The Development of the Ceramic Tile Industry and its Eventual Establishment as a System</i>	246

1.4 From Ideology to Methodology: Design Histories and Current Developments in Post-Socialist Countries

Anna Calvera, 1CDHS 10 th +1 Scientific Committee / Jelena Prokopljević, Fedja Vukić. <i>Introduction</i>	258
Anna Ulahelová. <i>From Their Values to Our Own: Development of Graphic Design Education in Slovakia after 1989</i>	259
Iva Kostešić. <i>From Ulm to Zagreb – Tracing the Influence of the Hochschule für Gestaltung in Socialism</i>	264
Rita Paz Torres. <i>Visual Work and Methods of the UTE Graphic Workshop (1968–1973) in the Period of the University Reform in Chile</i> .	269
Gian Nicola Ricci. <i>The Role of Socialist Architectural Heritage and Design for the Construction of Contemporary Identities: Modernism in Warsaw</i>	274

1.5 [100th Anniversary of the Bauhaus Foundation]: Tracing the Map of the Diaspora of its Students

Anna Calvera, 1CDHS 10 th +1 Scientific Committee / Oscar Salinas-Flores, Haruhiko Fujita. <i>Introduction</i>	286
Toshino Iguchi. <i>Design for Militarization in Wartime: Bauhäusler Immigrants in the US</i>	287
Hideo Tomita. <i>Examining the Methodology of Arie Sharon's Kibbutz Planning (1938–50): A Perspective Based on his Architectural Education at the Bauhaus</i>	292
Chiara Barbieri and Davide Fornari. <i>The Lost Typefaces of Xanti Schawinsky: From the Bauhaus to Italy</i>	296
Oscar Salinas-Flores. <i>Beyond the Bauhaus, The Fertile Creation of the Alberses in Mexico</i>	300

1.6 Design History: Gatekeeper of the Past and Passport to a Meaningful Future?

Anna Calvera, 1CDHS 10 th +1 Scientific Committee / Jonathan M. Woodham, Helena Barbosa, Pekka Korvenmaa. <i>Introduction</i> . .	310
Li Zhang. <i>Navigating in the Gap: Designing Historical Fiction and Speculating the Present</i>	311
Niki Sioki. <i>The Primacy of the Physical Artefact – Some Thoughts on the History of Book Design and its Future</i>	315
Jenny Grigg. <i>How Paper Figures in the History of Design Ideation</i>	319
Helena Barbosa. <i>From Theory to Practice: The History of Portuguese Design as a Tool for Understanding Design Practice</i>	323

Emanuela Bonini Lessing and Fiorella Bulegato. <i>Living Archives: Merging Design History and the Design Studio in an Educational Experience</i>	328
Kaisu Savola. 'With whom do you feel your solidarity' – Developing a Socially Conscious Design Practice in 1960s Finland	333
Giuliano Simonelli and Vanessa Monna. <i>The Landscape of Coworking Spaces: An Exploration Between Past and Future</i>	338
Noemí Clavería. <i>Design for All. The Past that Provides a Future</i>	343
Luciana Gunetti. <i>Albe Steiner's Research for a Graphic Design History's Active Learning and Teaching</i>	348
Rita Cruz and Fátima Pombo. <i>Daciano da Costa: Protagonist of Portuguese Furniture Design</i>	353
Jonathan Woodham. <i>Design and Design History in Post Brexit Britain: Looking Backwards, Looking Forwards</i>	358
Noel David Waite. <i>Adding Value Through and To Design: Lessons from New Zealand Design Policy</i>	363
Ana F. Curralo and Helena Barbosa. <i>Exhibition Structures: Displaying Portugal</i>	367
Mariana Almeida and Helena Barbosa. <i>Hermeneutics of the Port Wine Poster: From Past to Present</i>	372

1.7 Constructivism and Deconstructivism: Global Development and Criticism

Anna Calvera, ICDHS 10 th +1 Scientific Committee / [Oriol Moret]. <i>Introduction</i>	382
---	-----

1.8 An Expanded Global Framework for Design History

Anna Calvera, ICDHS 10 th +1 Scientific Committee / Oscar Salinas-Flores, Yuko Kikuchi. <i>Introduction</i>	390
Rie Mori. <i>Transformation in Kimono Design in Southeast Asia from the Late 19th to the Mid-20th Century</i>	393
Lara Leite Barbosa de Senne. <i>The Return of Metabolism in the Future of Design for Disaster Relief (1958–2018)</i>	397
Shinsuke Omoya. <i>Why Flower Patterns? An Aspect of Product Design History in Post-war Japan</i>	402
Mitha Budhyarto and Vikas Kailankaje. 'Dignifying Labour': <i>The History of Early Vocational Education in Indonesia and Singapore</i> ..	406
Yongkeun Chun. <i>Education and Professionalisation of Commercial Art in 1930s Colonial Korea: The Tonga Ilbo Commercial Art Exhibition (1938–1939) as Displayed Colonial Modernity</i>	411
Tom Spalding. <i>When We Were Modern; Corporate Identity in Cork Pubs 1960–69</i>	416
Elane Ribeiro Peixoto and José Airton Costa Junior. <i>The Itamaraty Palace and Brazilian Modern Furniture</i>	421
Dora Souza Dias. 'The Winds of Change': <i>Cosmopolitanism and Geopolitical Identities in the Context of ICOGRADA</i>	426
Rebecca Houze. <i>Designing Cultural Heritage at Mary Colter's Hopi House, Grand Canyon, Arizona, 1905</i>	431
Elena Dellapiana and Paolo Tamborrini. <i>Which Came First, the Chicken or the Egg? Sequences and Genealogies in between Architecture and Design for a Global History</i>	435
Yuko Kikuchi. <i>Creating a Field of East Asian Design History in English through Publication of a Critical Reader</i>	441
Wendy S. Wong. <i>Cultural Nationalism as a Conceptual Foundation for Mapping a Timeline of Modern East Asian Design History</i> ..	446

1.9 Design Museums Network: Strengthening Design by Making it Part of Cultural Legacy

Anna Calvera, ICDHS 10 th +1 Scientific Committee / Pilar Vélez. <i>Introduction</i>	458
Fiorella Bulegato, Emanuela Bonini Lessing, Alberto Bassi and Eleonora Charans. <i>The Museum of the Ski Boot and Sports Shoe and its Cultural Legacy in the Industrial Cluster of Montebelluna (Treviso)</i>	459
Paul Atkinson. <i>The Role of Design History in the Museology of Computing Technology</i>	464
Francesco E. Guida. <i>Micro-histories of Italian Graphic Design as a Concept Tool for a Museum / Archive. AIAP's Graphic Design Documentation Centre</i>	469

1.10 Types and Histories: Past and Present Issues of Type and Book Design

Anna Calvera, ICDHS 10 th +1 Scientific Committee / Oriol Moret, Begoña Jorda-Albiñana, José M. Cerezo. <i>Introduction</i>	482
Isabella R. Aragão. <i>The Brazilian Modern Letterpress Printing Scene</i>	483
Igor Ramos and Helena Barbosa. <i>The History of Opening Tiles in Portuguese Cinema: First Contributions</i>	488
Priscila L. Farias, Daniela K. Hanns, Isabella R. Aragão and Catherine Dixon. <i>Designing the Early History of Typography in Brazil, Starting from Printing in São Paulo</i>	493
Chiara Barbieri. <i>The Scuola del Libro in Milan at the Center of a Typographic Quarrel Between Risorgimento Grafico and Campo Grafico</i>	499
Mila Waldeck. <i>Statements and Fluxshoe Add End A: The Artist's Book versus the Crystal Goblet</i>	503
Nereida Tarazona-Belenguier, Olga Ampuero-Canellas, Jimena Gonzalez-Del Rio and Begoña Jorda-Albiñana. <i>Textual-type or Visual-type? Historical Approach to the Hybrid Nature of Typographical Characters</i>	508

Fátima Finizola, Solange G. Coutinho and Damião Santana. <i>Sign Painters of Pernambuco: A Brief History of the Origins, Aesthetics and Techniques of their Practice in the Northeast of Brazil</i>	513
Emre Yıldız and Metehan Özcan. <i>Apartment Nameplates as the Carrier of Typographic Heritage</i>	518
Marcos Dopico and Natalia Crecente. <i>The “Other” Typographic Models. The Case of Galician Typography as Identity Assertion</i>	522
Oriol Moret and Enric Tormo. <i>Babbling Type Bodies (Barcelona, 1507–1529)</i>	526

2 ____ DESIGN STUDIES

2.1 Design Aesthetics: Beyond the Pragmatic Experience and Phenomenology

Anna Calvera, ICDHS 10 th +1 Scientific Committee / Fátima Pombo, Augusto Solórzano. <i>Introduction</i>	538
Mads Nygaard Folkmann. <i>The End of the Beautiful? Aesthetic Categories in Design</i>	541
Nuria Peist Rojzman. <i>The Consideration of Design Aesthetics as a Tool for Analysis and Social Change</i>	546
Augusto Solórzano. <i>Guidelines for an Aesthetic of Design</i>	550
Tenna Doktor Olsen Tvedebrink, Anna Marie Fisker, Anna Eva Utke Heilmann and Nini Bagger. <i>Tales of Past Tables. Karen Blixen’s Storytelling as a Foundation for a New Narrative Design Tool</i>	554
Ana Miriam Rebelo and Fátima Pombo. <i>Photography and Designed Space: A Shift in Perspective</i>	559
Şölen Kipöz. <i>A Quest For Interdisciplinary / Cross-disciplinary / Multi-disciplinary Design Practices at the Intersection of Fashion and Architecture</i>	564
Chiaki Yokoyama. <i>From Drawing to Design—John Ruskin’s Teaching and Morris & Co.</i>	570
Lisa Bildgen and Christof Breidenich. <i>The Creative Potential of the Avant-garde—Inspirations from Modern Art and Postmodernism for Graphic and Communication Design</i>	575
Rachapoom Punsongserm, Shoji Sunaga and Hisayasu Ihara. <i>Roman-like Thai Typefaces: Breakthrough or Regression?</i>	580
Alfonso Ruiz. <i>Design for the Future of Mankind</i>	586

2.2 Public Policies on Design and Design-driven Innovation

Anna Calvera, ICDHS 10 th +1 Scientific Committee / Javier Gimeno-Martínez, Pekka Korvenmaa. <i>Introduction</i>	598
Carlos Bártolo. <i>Decorative Paternalism: Analysis of Two Books of the National Campaign for the Education of Adults Devoted to Interior Decoration – 1956</i>	599
Mads Nygaard Folkmann. <i>Danish Design on Exhibition. The Cultural Politics of Staging the Everyday</i>	604
Ariyuki Kondo. <i>Scottish Independence and Design Education: Historical Reflections and Contemporary Observations</i>	609
Eleanor Herring. <i>Designing from the Centre: State-sponsored Design in Britain and Politically Driven Decision-making</i>	614
Sabine Junginger. <i>How the Public Sector Redefines our Notion of Design-driven Innovation</i>	619
Florencia Adriasola. <i>Future Scenarios as a Significant Complement for Innovation Methodologies in Chile and Latin America</i>	623
Bernardo Antonio Candela Sanjuán and Carlos Jiménez-Martínez. <i>A Proposal for a Regional Design Policy in the Canary Islands: Design System Mapping, Strategies and Challenges</i>	628
Jani Galland and Aura Cruz. <i>Rhizomatic Design for Survival and Inclusion</i>	633
Saurabh Tewari. <i>Design in Visions: Visions of/on Design from the Events, Declarations and Policies in India</i>	637

2.3 Digital Humanities: How Does Design in Today’s Digital Realm Respond to What We Need?

Anna Calvera, ICDHS 10 th +1 Scientific Committee / Tingyi S. Lin, Nuria Rodríguez Ortega, Paul Atkinson, Wendy Wong. <i>Introduction</i>	650
Toke Riis Ebbesen. <i>The Mediatization of Design on Social Network Media</i>	651
Albert Díaz Mota and María José Balcells Alegre. <i>Linked Objects: Relational Memory of Design at Barcelona Design Museum</i>	656
Stina Teilmann-Lock and Nanna Bonde Thylstrup. <i>Snippets: Designs for Digital Transformations in the Age of Google Books</i>	661
Patrícia Martins, Didiana Prata and Ana Paula Pontes. <i>Parameters for Documentation and Digital Strategies of Communication for Temporary Art Exhibitions in Brazilian Museums</i>	666

2.4 Design Studies: Design Methods and Methodology, the Cognitive Approach

Anna Calvera, ICDHS 10 th +1 Scientific Committee / Pau Solà-Morales, Alain Findeli. <i>Introduction</i>	678
Violeta Clemente, Katja Tschimmel and Rui Vieira. <i>A Metaphoric Thinking Styles Taxonomy to Promote Students’ Metacognitive Self-reflection in Design Learning</i>	679
Silvia Escursell and Holly Blondin. <i>Communicating in the 21st Century: New Materials as Creative Boosters</i>	684

AUTHORS INDEX

A

- Adriasola, Florencia 2.2:
623–627
- Alcántara, María 1.2: 144–148
- Almeida, Mariana 1.6: 372–376
- Álvarez, Pedro 1.2: 200–204 | 3:
809–813
- Alves, Thuany 3: 752–757
- Amagai, Yoshinori 1.1: 81–84
- Ampuero-Canellas, Olga 1.10:
508–512
- Anastassakis, Zoy 3: 747–751
- Aragão, Isabella R. 1.10:
483–487, 493–498
- Ardinghi, Maria Beatriz 1.2:
167–170
- Atkinson, Paul 0: 23 | 1.9:
464–468 | 2.3: 650
- Atzmon, Leslie 2.4: 715–719

B

- Balcells Alegre, María José 2.3:
656–660
- Bagger, Nini 2.1: 554–558
- Balcioğlu, Tevfik 0: 26 | 1.3: 219
| 3: 839–843
- Barbieri, Chiara 1.5: 296–299 |
1.10: 499–502 | 3: 814–819
- Barbosa, Helena 0: 25 | 1.6: 310,
323–327, 367–371, 372–376 |
1.10: 488–492
- Bártolo, Carlos 2.2: 599–603
- Bassi, Alberto 1.9: 459–463
- Berthod, Jonas 3: 773–777
- Bildgen, Lisa 2.1: 575–579
- Blondin, Holly 2.4: 684–688
- Bonini Lessing, Emanuela 1.6:
328–332 | 1.9: 459–463
- Brandão, Filipe 2.4: 706–710
- Breidenich, Christof 2.1:
575–579
- Brisolara, Daniela 2.4: 711–714
- Budhyarto, Mitha 1.8: 406–410
- Buitrago, Juan Camilo 1.1:
85–88 | 1.2: 139–143
- Bulegato, Fiorella 1.6: 328–332 |
1.9: 459–463

C

- Calvera, Anna 0: 17 | 1.1: 62,
63–67 | 1.2: 138 | 1.3: 218 | 1.4:
258 | 1.5: 286 | 1.6: 310 | 1.7:
382 | 1.8: 390–391 | 1.9: 458 |
1.10: 482 | 2.1: 538 | 2.2: 598
| 2.3: 650 | 2.4: 678 | 2.5: 726
| 3: 746
- Camargo, Paula 3: 747–751

- Campi, Isabel 1.1: 63–67 | 3:
746, 758–762
- Candela Sanjuán, Bernardo
Antonio 2.2: 628–632
- Carullo, Rossana 1.3: 221–225
- Castillo, Eduardo 1.2: 187–190
- Cavallo, Cristina 1.2: 162–166
- Cerezo, José M. 1.7: 382 | 1.10:
482
- Cesio, Laura 1.2: 172–176
- Charans, Eleonora 1.9: 459–463
- Chun, Yongkeun 1.8: 411–415
- Clavería, Noemí 1.6: 343–347
- Clemente, Violeta 2.4: 679–
683, 694–698 | 3: 787–791
- Contreiras, Julia 1.2: 205–209
- Correia, Ricardo Mendes 2.4:
706–710
- Cortés, Erika 3: 782–786
- Costa Junior, José Airton 1.8:
421–425
- Coutinho, Solange G. 1.10:
513–517
- Crecente García, Natalia 1.10:
522–525
- Cruz, Aura 2.2: 633–636 | 3:
782–786
- Cruz, Rita 1.6: 353–357
- Cunha, Lucas do M. N. 1.2:
153–156
- Curralo, Ana F. 1.6: 367–371

D

- Dangla, Assumpta 1.3: 236–240
- Delamadeleine, Constance 3:
768–772
- Dellapiana, Elena 1.8: 435–440
- Del Río, María Isabel 1.3:
241–245
- Dias, Nuno 3: 787–791
- Díaz Mota, Albert 2.3: 656–660
- Diniz, Sofia 3: 829–833
- Dixon, Catherine 1.10: 493–498
- Dopico Castro, Marcos 1.10:
522–525
- Dorado, María Ximena 1.1:
85–88

E

- Ebbesen, Toke Riis 2.3: 651–655
- Efrem, Rafael 3: 752–757
- Ellouze, Nesrine 0: 37–39
- Escursell, Silvia 2.4: 684–688

F

- Facchetti, Andrea 2.5: 731–734
- Falqueto, Bárbara 3: 752–757
- Farias, Priscila L. 0: 25 | 1.2: 138
| 1.10: 493–498 | 3: 746
- Farkas, Mónica 1.2: 172–176

- Félix, Silvina 3: 787–791
- Fernández, Lucila 0: 27 | 1.1: 62
| 1.4: 258
- Fernández Villalobos,
Nieves 1.1: 102–106
- Ferrara, Marinella 1.3: 219,
226–230
- Findeli, Alain 0: 37–39 | 1.5:
286 | 2.4: 678
- Finizola, Fátima 1.10: 513–517
- Fisker, Anna Marie 2.1: 554–558
- Floré, Fredie 0: 24 | 2.5: 726
- Folkmann, Mads
Nygaard 2.1: 541–545 | 2.2:
604–608
- Fontana, Carla Fernanda 3:
798–803
- Fornari, Davide 1.5: 296–299 |
3: 814–819
- Fort, Josep M. 1.1: 77–80 | 2.5:
726
- Fortea, M. Àngels 3: 746
- Freixa, Mireia 0: 29–35
- Fujita, Haruhiko 0: 23 | 1.5: 286
| 1.7: 382

G

- Galland, Jani 2.2: 633–636
- García, Silvia 1.2: 191–194
- Gimeno-Martínez, Javier 0: 24
| 2.1: 598
- Gonzalez-Del Rio, Jimena 1.10:
508–512
- Goto, Hiroka 1.1: 107–110
- Grigg, Jenny 1.6: 319–322
- Guida, Francesco E. 1.2:
195–199 | 1.9: 469–473
- Gunetti, Luciana 1.6: 348–352

H

- Hanns, Daniela K. 1.10:
493–498
- Hansen Hadberg, Kristina 3:
844–848
- Hasırcı, Deniz 1.1: 68–72
- Heilmann, Anna Eva Utke 2.1:
554–558
- Herring, Eleanor 2.2: 614–618
- Houze, Rebecca 1.8: 431–434
- Hurtado Trujillo, Diana María
1.2: 149–152

I

- Ibarra Martínez, Edrei 3:
778–781, 849–852
- Iguchi, Toshino 1.5: 287–291
- Ihara, Hisayasu 2.1: 580–585

J

- Jakobsen, Annette
Svaneklink 1.1: 93–96

- Jeong, Suna 1.1: 121–124
Jiménez-Martínez, Carlos 2.2: 628–632
Jones, Meghen 1.1: 111–115
Jorda-Albiñana, Begoña 1.10: 482, 508–512 | 3: 746
Junginger, Sabine 2.2: 619–622
- K**
Kailankaje, Vikas 1.8: 406–410
Kaizer, Felipe 1.2: 153–156
Kakuyama, Tomoko 1.1: 89–92
Kaname, Mariko 1.1: 73–76
Kikuchi, Yuko 0: 25 | 1.8: 391, 441–445
Kim, Mi-Hye 3: 820–824
Kim, Min-Soo 1.1: 121–124 | 3: 820–824
Kipöz, Şölen 2.1: 564–569
Kondo, Ariyuki 2.2: 609–613
Korvenmaa, Pekka 0: 26 | 1.5: 286 | 1.6: 310 | 2.2: 598
Kostešić, Iva 1.4: 264–268
- L**
Labalestra, Antonio 1.3: 221–225
Lecce, Chiara 1.3: 231–235
Lin, Tingyi S. 0: 25 | 1.2: 138 | 2.3: 650
López de Aberasturi De Arredondo, Begoña 1.1: 102–106
- M**
Macsoy, Tomas 1.3: 219
Margolin, Victor 0: 26 | 1.8: 391
Martins, Patrícia 2.3: 666–670
Mazzilli, Clice de Toledo Sanjar 1.2: 205–209
Mengi, Onur 2.5: 727–730
Monna, Vanessa 1.6: 338–342
Moret, Oriol 0: 19–21, 23, 24 | 1.7: 382 | 1.10: 482, 526–530
Mori, Rie 1.8: 393–396
Moyano, Neus 2.4: 689–693
Munch, Anders V. 1.1: 62 | 3: 825–828
- N**
Nicoletti, Viviane Mattos 1.1: 116–120
- O**
Omoya, Shinsuke 1.8: 402–405
Özcan, Ahmet Can 2.5: 727–730
Özcan, Metehan 1.10: 518–521
- P**
Paio, Alexandra 2.4: 706–710
Parente, Marina 1.1: 125–129
Peist Rojzman, Nuria 2.1: 546–549
Peixoto, Elane Ribeiro 1.8: 421–425
Poblete, Alejandra 2.4: 699–705
Pombo, Fátima 1.6: 353–357 | 2.1: 539, 559–563 | 2.4: 694–698
Pontes, Ana Paula 2.3: 666–670
Prata, Didiana 2.3: 666–670
Prokopljević, Jelena 1.4: 258
Providência, Francisco 2.5: 735–739
Puig, Josep 1.2: 177–181
Punsongserm, Rachapoom 2.1: 580–585
- R**
Ramos, Igor 1.10: 488–492
Real García, Noa 3: 804–808
Rebelo, Ana Miriam 2.1: 559–563
Renau, Vera 1.3: 246–250
Ribeiro, Marlene 2.5: 735–739
Ricci, Gian Nicola 1.4: 274–278
Rodríguez Ortega, Nuria 2.3: 650
Ruiz Rallo, Alfonso 1.1: 97–101 | 1.7: 382 | 2.1: 586–589 | 3: 804–808
Russo, Anna Cecilia 1.3: 226–230
Rybak, Sergio 1.2: 157–161
- S**
Salinas-Flores, Oscar 0: 24 | 1.5: 286, 300–304 | 1.8: 391
Santana, Damião 1.10: 513–517
Santos, Maria Cecilia Loschiavo dos 1.1: 116–120
Savola, Kaisu 1.6: 333–337
Scherling, Laura 3: 834–838
Sedini, Carla 1.1: 125–129
Senne, Lara Leite Barbosa de 1.8: 397–401
Simonelli, Giuliano 1.6: 338–342
Sioki, Niki 1.6: 315–318
Solà-Morales, Pau 2.4: 678 | 2.5: 726
Solórzano, Augusto 2.1: 539, 550–553
Souza Dias, Dora 1.8: 426–430
Souza Leite, João de 1.2: 153–156, 182–186
Spalding, Tom 1.8: 416–420
Sprechmann, Magdalena 1.2: 172–176
Sterla, Mauricio 1.2: 172–176
Sunaga, Shoji 2.1: 580–585
- T**
Tamborrini, Paolo 1.8: 435–440
Tarazona-Belenguier, Nereida 1.10: 508–512
Teilmann-Lock, Stina 2.3: 661–665
Tewari, Saurabh 2.2: 637–641
Thylstrup, Nanna Bonde 2.3: 661–665
Tomita, Hideo 1.5: 292–295
Tormo, Enric 1.10: 526–530
Torrent, Rosalía 1.7: 382
Torres, Rita Paz 1.4: 269–273
Tschimmel, Katja 2.4: 679–683, 694–698
Tuna Ultav, Zeynep 1.1: 68–72
Tvedebrink, Tenna Doktor Olsen 2.1: 554–558
- U**
Ulahelová, Anna 1.4: 259–263
Ureta, Carola 1.2: 200–204
- V**
Vélez, Pilar 0: 41–45 | 1.9: 458
Vetter, Peter 3: 763–767
Vieira, Rui 2.4: 679–683
Vukić, Fedja 0: 27, 47–53 | 1.4: 258
- W**
Waite, Noel David 1.6: 363–366
Waldeck, Mila 1.10: 503–507
Wong, Wendy S. 0: 25 | 1.2: 138 | 1.8: 446–449 | 2.3: 650
Woodham, Jonathan 0: 23–27 | 1.6: 310, 358–362
- Y**
Yagou, Artemis 1.1: 62
Yıldız, Emre 1.10: 518–521
Yokoyama, Chiaki 2.1: 570–574
- Z**
Zhang, Li 1.6: 311–314
Zuaznabar, Gillermo 2.4: 689–693

1.8 An Expanded Global Framework for Design History

Since the beginning of human societies, informal design has formed part of culture. For most design historians, however, the history of formal design begins with the Industrial Revolution, although some scholars consider its origins to lie in the 15th century, which they regard as the start of the modern world. Traditional design histories primarily emphasise Europe, the United States, and sometimes Japan. In recent years, the outline of a new global history narrative has begun to emerge with the publication of several new books. These books have been made possible by research carried out by scholars from countries that were previously excluded from narratives. In addition, there is a great deal of material that addresses what may now be called “design” in the period preceding the 15th century.

This strand seeks papers that expand on the global design history narrative that is emerging. Papers may be case studies, historical accounts or theoretical topics related to a global design history framework.

Anna Calvera / ICDHS 10th+1 Scientific Committee

The inspiration for Strand 1.8 came from none other than the late Anna Calvera, who wrote an initial proposal for the strand that encapsulated the core spirit of ICDHS in its quest to expand on the global design history framework by constructing new design narratives outside of Euroamerica, while filling in gaps and under-represented areas from within. The first group of papers focuses on recent regional studies on design in East Asia, including Japan and colonial Korea. Similarly, the second group focuses on regional case studies from Latin America, particularly Brazil. The design fields include clothing design, graphic design, product and craft design, and architectural and interior design.

Mori's paper reveals new transnational and political studies on the kimono in Japan's Southeast Asian colonies, while Senne reinterprets the metabolism-related ideas of the 1960s and examines their contemporary relevance. Omoya's paper presents an alternative

regional narrative of floral decorative design as a challenge to the standard Japanese design narrative centred on simplicity.

The second session analyses the origin of the first design-related educational experiences in countries such as Indonesia, Singapore, Korea and Japan during the first half of the 20th century. These countries were colonised societies and faced a complex situation that allowed them to incubate a design dignification and professionalisation process. This took place through artisan processes and so-called commercial art, supported by schools and promoting bodies, which made it possible to train professional designers to collaborate in a developed system where innovation played an important role.

'Commercial art' is also at the core of the last paper of the session. The paper addresses corporate identity in pubs and inns (a rather neglected subject in design history) using a case study that emphasises the modern angle associated with corporate design practices.

Peixoto and Costa Junior's paper discusses an aspect of Brazilian modernism through research on the architecture of the Itamaraty Palace, a government building in Brasília designed by Oscar Niemeyer, together with its interior design, furniture and decorative objects. Dias's paper focuses on Latin American graphic designers and ICOGRADA executive board members and discusses how their idea of individualised cosmopolitanism advanced the overall postcolonial agenda.

The last two papers do not relate to regional cases from outside Euroamerica, but rather propose methodological questions to expand the design history framework. Houze's paper focuses on the case of Hopi House, the living museum and curio shop on the South Rim of the Grand Canyon, Arizona, and poses ethical and design questions relating to the problematic and complex situation presented by this cultural enterprise in relation to travel, tourism, heritage, national identity, cultural appropriation and preservation. Dellapiana and Tamborini's paper questions the conventional methodology used in design history studies that is based on genealogy of styles, and proposes alternative methodologies drawn from recent design studies and interdisciplinary approaches.

In the last session, the authors offer a historical analysis of the development of East Asian design from the mid-19th century until today. Kikuchi has brought together different stories from colleagues for an anthology that can contribute to our understanding of the changes and development that this region has experienced, examining how the entities that form it have become economic powers and achieved an identity in their design. Wong, in her timeline mapping project, starts by presenting the design stories within the region illustrating the history of international design, and then builds up a conceptual framework based on a cultural nationalism that can help clarify the connection and transnationalisation of East Asian design with international design history.

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Which Came First, the Chicken or the Egg?

Sequences and Genealogies in between Architecture and Design for a Global History

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Some among the early “classics” of the history of projects, such as Giedion or Pevsner, united architecture and design leaning towards anonymity and industrialism and eliminating the division between the two disciplines. They were related with an ideological notion of style: the “Modern”. Afterwards other approaches suggested another use of sequences of objects in a larger continuum instead of the use of notions of “style” (Kubler, Bloch and Foucault).

Joining these different starting points together with the latest contribution (MARGOLIN, 2015) the paper aims to explore the possibilities given by compiling timelines and sequences that mix different approaches in a larger vision of project disciplines to obtain the web for a global history, implementable and queryable at different levels and using a broader range of design studies. The goal is to outline and schematically show a continuous

conversation throughout time and space, maintaining the specificities of historical research and an inclusive and broader view on the flow of time.

To inform a reflection on this opportunity the paper will consider the ways to organize sequences on specific or general topics using tools for the managing of data flows and their representations.

Diagrams and promotion of Modern

When Sigfried Giedion wrote, as early as 1948, *Mechanization takes command*, he contaminated and overlapped architecture and design focusing on anonymity and industrial production (tall buildings, balloon frames together with barber chairs, cheap kitchens and trains) and he eliminated the division between the two disciplines. In his *Pioneers of Modern Design* (1936) Nikolaus Pevsner, even if in a different way, also crossed the boundaries between architecture and design. Both are however linked to an ideological notion of style: the “Modern”, illustrated and promoted with militant faith and with an idealistic approach to history (SCALVINI and SANDRI, 1984; WATKIN, 1983). This was an evolutionary approach, somehow Vasarian, in which the sequence of the authors and the works were organized to demonstrate the goodness of the “modern way”, clearly explained also by Pevsner’s book’s subtitle, *From William Morris to Walter Gropius*, and by others in the same years, such as *Von Ledoux bis Le Corbusier* by Emil Kauffmann.¹ The historical sequence lends itself, obviously, to a graphical synthetic representation that can be functional in the diffusion of the data—intended as objective and shared.

These are the years of the publication in the United States, at affordable prices, of the *Histomap* by John B. Sparks,² who followed not so much a precise historiographical model—as a simple enthusiast—but rather the need to make the information shareable and disseminated. He agreed with the conviction, borrowed from Spencer, that “When a man’s knowledge is not

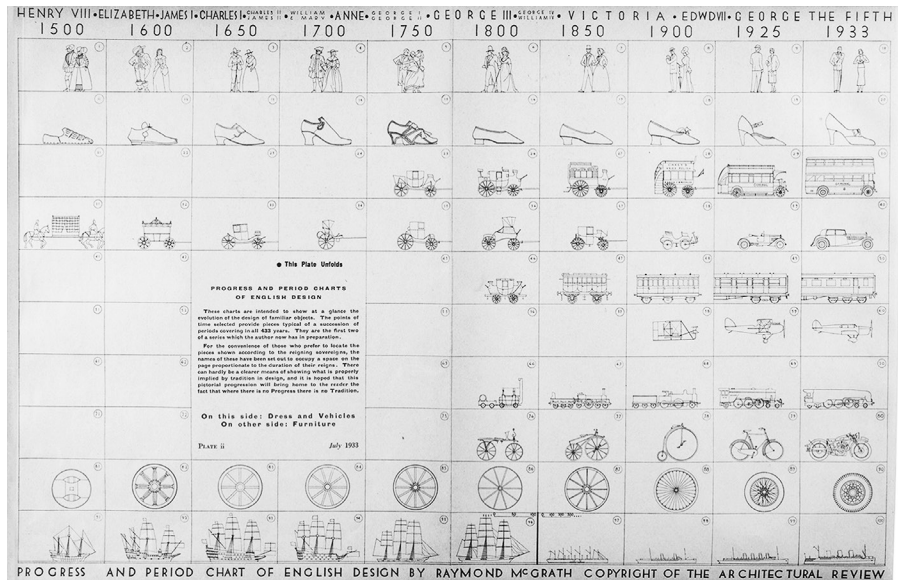


Fig. 1 R. MCGRATH, “Progress and Period Charts of English Design”, *The Architectural Review*, vol. LXXIV, 440, 1933 (7).

in order, the more of it he has, the greater is his confusion in thought” (ROSEMBERG and GRAFTON, 2010: 217–219). Following this evolutionary approach, he thus drew “the actual picture of the march of civilization, from the mud huts of the ancients thru the monarchist glamour of the middle ages to the living panorama of life in present day America”.

The family tree and the linear sequence very well represented this kind of idea and path. The historiography or the goals of “cultural politics” correspond to one specific depiction.

In July 1933, Raymond McGrath,³ architect and early illustrator, entrusted to the pages of *The Architectural Review* a series of tables that showed the process of transformation of different items between 1500 and 1933 (Fig. 1), specifying the

[1] KAUFFMANN, E. (1933). *Von Ledoux bis Le Corbusier*, Vienna: Verlag.

[2] SPARKS, J.B. (1931). *The Histomap. Four Thousand Years Of World History. Relative*

Power Of Contemporary States, Nations And Empires Chicago: Histomap, Inc.

[3] *The Architectural Review*, vol LXXIV n. 440, July 1933.

timeline with the sequence of the British kingdoms (from Henry VIII to George V) and introducing gradually and in parallel, as specializations, the fruits of industrial progress: transportations are illustrated with the carriages from which the cars descend and, with them, buses, train coaches, bicycles, aircrafts, ships and some basic technical elements such as the wheel. In the same way he depicted furniture identifying the genealogies that led to chairs, sofas, fireplaces, tables, cabinets, bathroom fixtures or sound diffusion devices and making an explicit reference to the word “evolution”. In 1933 Raymond Loewy conceived as

a self-promotion his *Evolutionary chart of design*⁴ with the aim to trace the line that lead to Streamlining.

This system gradually became more common in the magazines, in the years of the “consecration” of the Modern, and was increasingly attentive to the arrival point of the path that had to be clearly and indisputably modern.

As some examples, in 1942 Giuseppe Pagano released the sequence (only photographic) of lighting systems⁵ and Jack Waldheim, who authored the *Barwa lounge chair* with Edgar Bartolucci in 1949, wrote in 1949 an article in *Art and Architecture* with the aim of tracing “The story of an item first designed for functional reasons as portability and lightness, which later become a symbol of ‘Class’ and ‘Pomp’, and now is returning to basic principles—comfort, ease of production, lightness and a number of healthy-good hints to new concepts of sitting” (p. 26).⁶

In the same years of the celebration of the mythopoeia of modernity, we find in the North American cultural *milieu* a different and non-linear representation of sequences and genealogies. This shows in the intuition of Alfred H. Barr, who summarized sequences and overlays in the “Barr Diagram” (1936),⁷ the cover of the MoMA exhibition catalogue *Cubism and Abstract Art* (Fig. 2).

In this case the linear sequence experimented up to now was critically revised, focusing, also graphically, on the intersections and the contributions of the “external influences” (in red), even if it was once again a progressive teleological model for the development of modern art.

The sequential narrative mode, still used by Barr for all the 1940s for internal MoMA communications,⁸ was then shown in a series of exhibitions promoted by American museums, in particular by the MoMA itself, in the field of design culture until the 1960s. Curated by Bernard Rudofsky, these started with *Are the clothes modern?*, passing through *Roads* (1961) and *Stairs* (1963) and leading to *Architecture without Architects* (1964), with a vision that reflected the debate triggered by Focillon and Kubler, in which the sequences and the anonymous objects are meant to escape on one hand the concept of style and, on the other, the cult of authorship caused by the mythology of the Modern Movement.

In the same years, the use of sequences, especially in relation to single objects, was also introduced in the new magazines specialized in industrial design, even without representing any authentic historical contribution: sewing machines, motorcycles, telephones, combs were represented as a living matter in the different steps of their formal and technical evolution.⁹

This process of disciplinary self-assertion led to increasingly detailed and precise design stories coinciding with the search for a methodological status and with the goal of demonstrating that “(Italian) design is NOT a pure appendix to the architectural culture of the Modern Movement”,¹⁰ the point of it being that starting from an everyday object allowed a wider reading: “If you study the chair you discover the world”.¹¹

This statement refers to the already mentioned George Kubler’s interests in the field of archaeology research. He published *The Shape of Time* in 1962, suggesting an alternative approach which used sequences of objects in a wider continuum instead of using the notion of “style”. The teacher–pupil relationship between Kubler and Focillon (KUBLER, 1962) somehow reproduced the one between Giedion and Wölfflin, who worked on art history without names, too (PREZIOSI, 2009). It was immersed in American design and architecture culture, which had always dealt with an industrialized and less authoritative context than the European one and provided interpretative tools as well as operational ones for the community of architects and historians of architecture and art (KUBLER, 1965: 299–302). As shown by the many attempts to establish theoretical bases in the history of design, the immediate effect and great success of Kubler’s contributions was that they started from the objects enucleating their meanings in terms of material and formal qualities, but also of behaviours and economic reasons

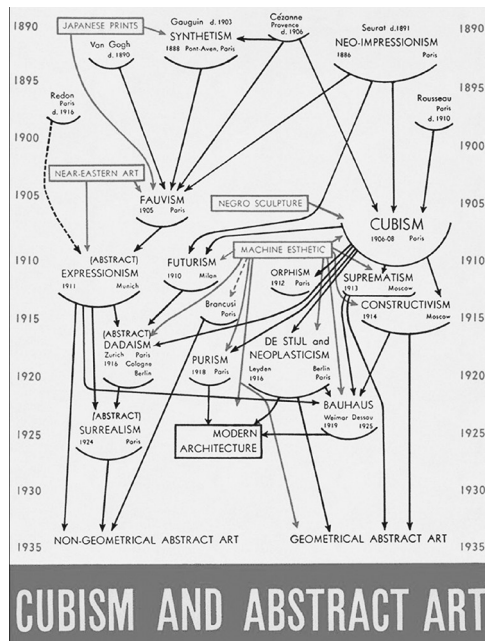


Fig. 2 ALFRED H. BARR, cover of the MoMA exhibition *Cubism and abstract art*, 1936.

- [4] LOEWY, R. (1979). *Industrial Design*. Woodstock-NY: Overlook Press: 74–76.
- [5] PAGANO, G. (1942). “Lampade di oggi e di una volta”, *Domus*, 174 (6): 238–243.
- [6] WALDHEIM, J. (1949). “The chair”, *Art and Architecture*, 66, (7): 26–27, 52.
- [7] GORDON KANTOR, S. (2002). *Alfred H. Barr Jr. and the Intellectual Origins of the Museum of Modern Art*. Boston: MIT.
- [8] ROSEMBERG & GRAFTON, *Cartographie*, cit., p. 222; MoMA Archives, Alfred Barr Jr. Papers, 9^o, 15.
- [9] “La macchina per cucire: invenzione, storia ed evoluzione della forma”, *Stile Industria*, 1956 (2), 6: 2–14; “Motociclette: produzione di serie e ricerca sperimentale”, *Stile Industria*, 1956 (10), 8: 7–18; “Progettazione di un telefono”, *Stile Industria*, 1957 (5), 13: 8–11.
- [10] GREGOTTI, V. (1986). *Il disegno del prodotto industriale. Italia 1860-1980*. Milan: Electa: 9.
- [11] WALDHEIM, “The chair”, cit. p. 26.

related to them. Furthermore, the historical approach that privileges events with repercussions in the social and economic structures, even minute, can be traced back to the “Annales”—renewed by Braudel—as well as to the history told as a genealogy of gaps and discontinuities following Foucault’s epistemological method (FOUCAULT, 1969).

“Marrying” the aims of the “Annales” *longue durée*, the attention for the background of the official historiography and for the pivotal approaches provided by the “idealist” histories of architecture and design such as that of Giedion, could thus be linked to the interest for sequences, or rather, on how to use them as an interpretative tool, as Kubler proposed.

Representing a discipline

Somehow closing this circle between the methodological innovations in history and their graphic representation could have solved the problem in telling and communicating stories in a linear or non-linear way but the historiographical debate around these seminal histories slowed down. The possibilities offered by both the sequences and the interdisciplinary approaches—and their respective representations—had ceased to be of interest, while stories continued (monographs, hagiographies, gender and all kinds of specializations). In fact, during the 1980s, the circumscribed effects of the Annalist approach were lost and, above all, the “record of death” of the metanarrative systems of

Western culture from the Enlightenment onwards¹² halted the historiographical debate on the use of chronologies as a whole. On the other hand, the representation of data, implemented by technical tools, somehow allowed its use on sequences as an almost independent expressive medium, also artistic—but it’s once again an egg or chicken problem.

It is to underline that the use of graphics which included lines representing different categories became a bit more frequent as a communication tool in “militant” studies, such as the one commissioned by the Club di Roma of MIT in 1972.¹³

The growing use of infographics as a mere communication method appeared again only at the end of the decade to order a fragmented outline which, in the specific area of design, led to some examples as comprehensive graphic histories, such as the *Olo* timeline (Fig. 3)¹⁴ or the *Map of Italian Design* from 1968 to 1988.¹⁵

- [12] LYOTARD, J.-F. (1979). *La condition postmoderne*. Paris: Minuit.
- [13] MEADOWS, D.H.; MEADOWS D.L.; RANDERS J.; BEHRENS W.W.III (1972). *The Limits of Growth*, Washington: Potomak Ass. Book: 103–104, 160–169.
- [14] G. GREGORI, “Mappa del design”, *Olo*, 1988, 1, w.p.; magazine, without text, directed by Alessandro Mendini.
- [15] BOSONI G.; CONFALONIERI F.G. (1988). *Paesaggio del design italiano 1972-1988*. Milan: Edizioni di Comunità: pp. 2–3.

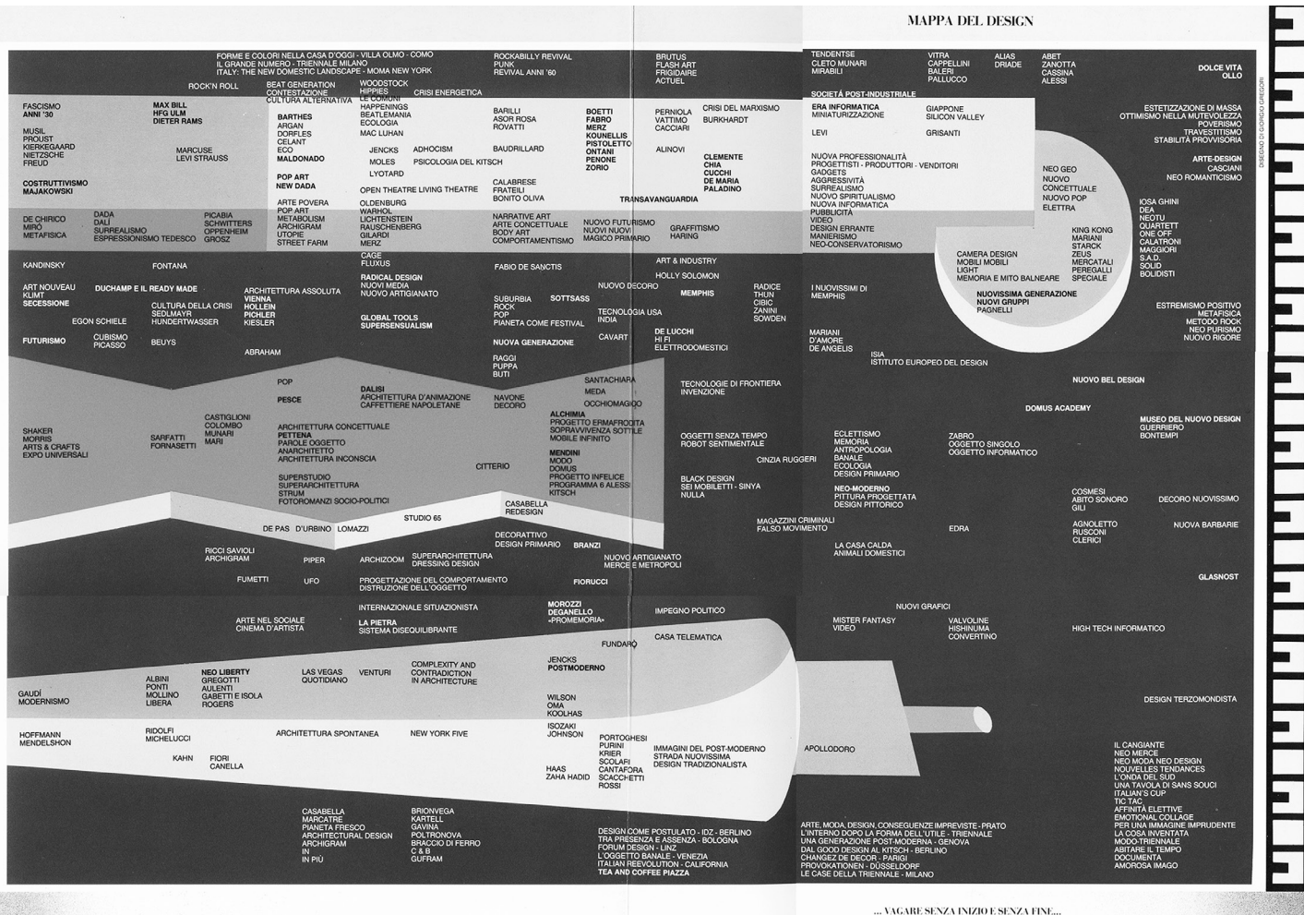


Fig. 3 G. GREGORI, “Mappa del design”, *Olo*, 1, 1988.

Faced with the typically post-modern observation of the existence of fragments, archipelagos, rhizomes, enzymes and swarms that started processes of dispersion, but also of pluralism, apparently there was a need to systematize, scientifically and narratively, the different components that had gradually built the history of design.

In 1991, Enrico Castelnuovo in the afterword to his *History of industrial design* (CASTELNUOVO, GUBLER and MATTEONI, 1991: 404–413) suggested—and required—a broader look that, although anchored to the canonical chronologies of the eventful history, put together different competences and variable reading scales.

The 1990s were a decade of debate about historical research in the field of design—one of the few disciplines still discussing methodological issues¹⁷ (MARGOLIN, 2015: 5–7; PASCA and TRABUCCO, 1995)—as it was trying to overcome the apparent contradiction between design history and design studies, highlighted sometimes as a disciplinary weakness (MARGOLIN, 1995; Riccini, 1996).¹⁸ Furthermore, design had been isolated from other sectors of the project culture historically deeply connected to it due to the overlap of training paths and roles (DELLAPIANA, 2016).

Nevertheless, some other maps concerning design and architecture history appeared, perhaps because of a necessity of appraisal marked by the turn of the millennium. It happened almost independently from the different tendencies of information design and was rather a need, within the environment of the historians trained as architects, to communicate in a scientifically effective way a story that seemed a disordered set of monads, even in its several graphic representations: biographies, genealogies of objects and technical achievements, collections of iconic products.

In this scenario, the continuous research and the project itself become fully intelligible only in relation to other events such as technological, cultural, economic, climatic and historical evolution. For these reasons it becomes essential to enable understanding by shifting the attention from a linear, structured and mechanical approach and a reading of the spatio-temporal phenomena towards a more systemic, circular, dynamic and interconnected vision. A more aware and conscious approach towards an information design.

Whether in values, techniques, methodologies, tools or languages, it is precisely the

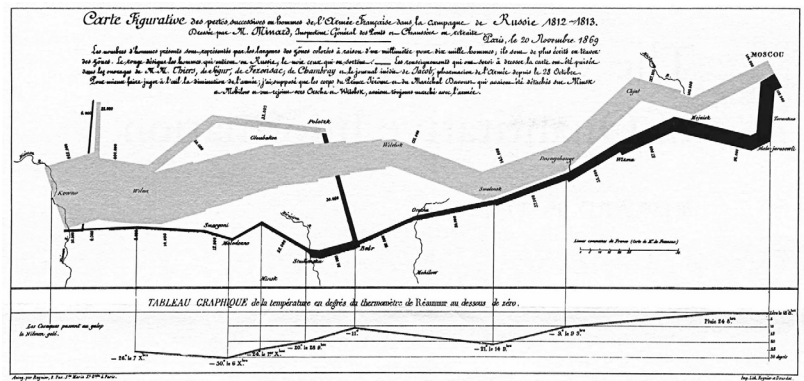


Fig. 4 MINARD, C. J. (1869). *Carte figurative des pertes successives en hommes de l'Armée Française dans la campagne de Russie 1812–1813*. Paris: Graphics Press.

field of design that becomes a cultural catalyst, a reading tool for social, territorial and productive changes, an aggregator of knowledge and skills, and an answer to the complexity and systemic process to guide knowledge, education, but also innovation and sustainability.

Information design for a global—inclusive—history

However, information design projects are not the latest outcomes. Great characters, won or lost battles, brave deeds or brilliant ideas are just some of the issues related to modern historiography. Issues that in their essence are numbers, quantities, positions that all can be summarized through the most different visual models (TUFT and GRAVES-MORRIS, 1983).

In the work of the French civil engineer Charles Joseph Minard (1869) (Fig. 4), it is possible to recognize, perhaps, one of the most famous, iconic and visionary spatio-temporal analyses based on a primordial ability to perceive directions, shapes, colours and proportions (MINARD, 1869).¹⁹ The *Carte Figurative des pertes successives en hommes de l'Armée Française dans la campagne de Russie (1812–1813)* summarizes, in a two-dimensional image, the army dimensions, the geographical references, the temporal flow and the meteorological variables of the defeat of the Russian Napoleonic campaign in 1812.

Whereas it is possible to find a more pragmatic approach in the formal experimentation of Giorgia Lupi, *Visualising painters' lives*, (Fig. 5) an anthology that describes life, styles, historical context, significant events of ten artists belonging to the abstractionism and surrealism painting movement.²⁰

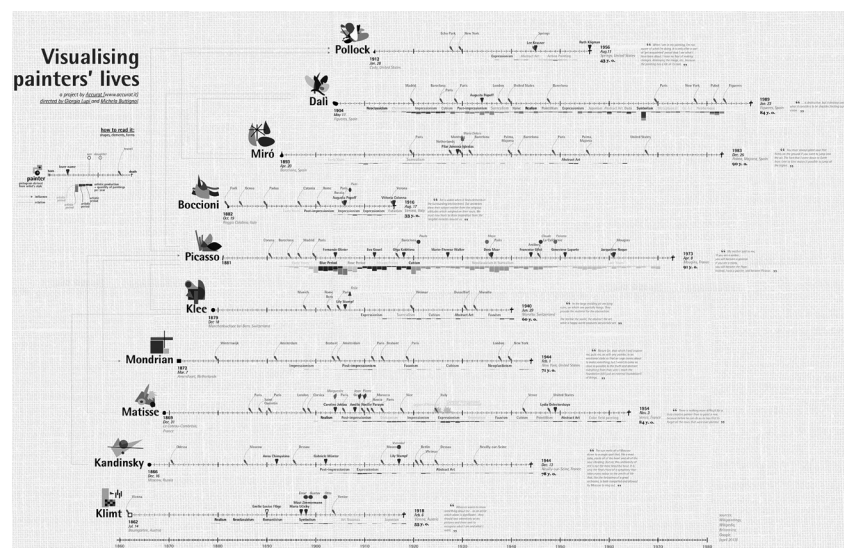


Fig. 5 LUPU, G. and BUTTIGNOL M., *Visualizing painters' lives*. giorgialupi.com/work#/visualizing-painters-lives, 2013.

- [16] BRANZI, A. (2006). *Modernità debole e diffusa. Il mondo del progetto all'inizio del XXI secolo*. Milan: Skirà; ROTA, I. (2012). *Cosmologia portatile. Scritti, disegni, mappe visioni*. Macerata: Quodlibet Abitare.
- [17] FALLAN, K. (2010). *Design History. Understanding Theory and Method*. Oxford: Berg.
- [18] MARGOLIN V. (2013), "Il Design nella Storia", *A/I/S/design storia e ricerche*, #1.
- [19] MINARD, C. J. (1869). *Carte figurative des pertes successives en hommes de l'Armée Française dans la campagne de Russie 1812-1813*. Paris: Graphics Press.
- [20] LUPI, G. and BUTTIGNOL M. (2013). *Visualizing painters' lives*. giorgiulupi.com/work#/visualizing-painters-lives.
- [21] ORTIZ, S. (2013). *Histomap revisited*. <http://intuitionanalytics.com/other/histomap/>.
- [22] White Vinyl Design. (2013). *Here is today*. hereistoday.com.
- [23] BLOCH, M. (1967). *Dialettica e speranza*. Firenze: Vallecchi.

Technological and digital development, especially in recent times, has led to a total rethinking of methodological processes as well as of the languages, researching, renewing and combining graphic/formal solutions and styles. Hypertextuality and interactivity thus enable new scenarios of understanding a holistic knowledge, qualifying both spatio-temporal phenomena comprehension and the creation of a dialogue aimed to tackle contemporary complexity.

Conceived as a continuous cycle between acting, evaluating, conceptualizing and applying, interpreted as a possibility to expand the conversation between past, present and future inclusively and collaboratively, education today sees in the design of information a useful support to enable knowledge. It might be a cross-cognitive tool built on a personal and collective understanding of history, based on open data availability and ability to transform them into a usable raw material. In this sense, the main trends we can mention are on one hand the digitalization of large archives and historical maps and on the other the ex novo creation of interactive visual tools. The first category mentioned above refers to the work of Santiago Ortiz: the digitalization of the *Histomap* by J. B. Sparks (1931)²¹ (Fig. 6). For the second category, we can refer to *Here is Today*, a simple and immediate interface based on a proportions game allowing the user to visually navigate the temporal history of the universe.²²

The ethical role of the designer becomes accessory in this cultural, social and technological transformation in an increasingly evident way.

Furthermore, the creation of databases—as a basic result—with the possibility of multi-level queries, the reproduction of various kinds of archives and their networking following the rapid developments of Digital History, seem to provide the tools suitable for an information flow functional to research, making the historian almost an information manager (McCRANK, 2002).

Regardless of the object of its representation, infographics is today a sophisticated tool offering in turn infinite possibilities of representation not only of simple sequences, but of general visions, which can make data communicable to the general public, and also to the community of experts in different fields, who do not necessarily practise the same specialized languages.

Putting the objects “in the indian line of before and after”, to say it with Marc Bloch,²³ but, as he recommends, highlighting fractures and scraps and questioning them with the tools of the respective epochs and moments of belonging (БЛОХ, 1950: chapter 1), shelters them from purely disciplinary claims—however often legitimate and understandable—and, paradoxically, deprives both the sequence and its own interpretation of the patina of individuality: placed in the historical flow, the objects lose their authorship and find their authentic historical context.

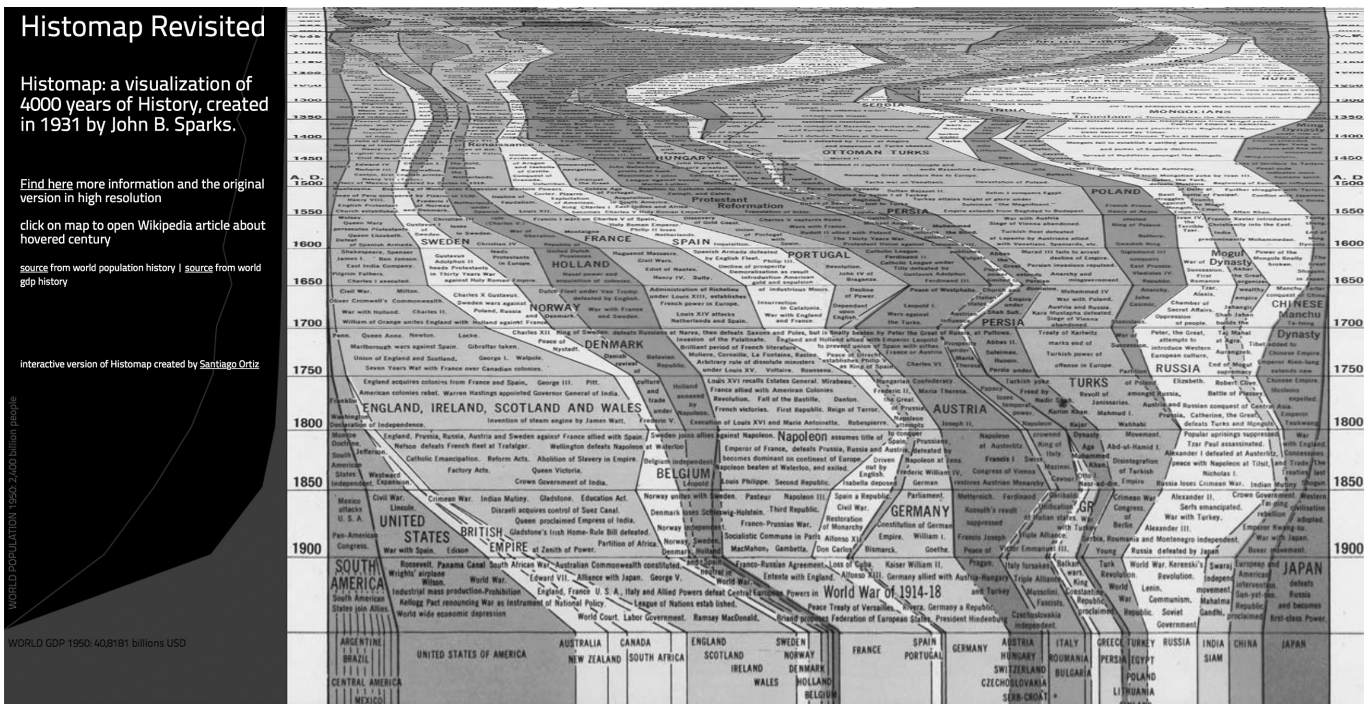


Fig. 6 ORTIZ, S. (2013). *Histomap revisited*. <http://intuitionanalytics.com/other/histomap/>.

Conclusion

The need to narrate the history of design and architecture in a broader sense—including both neglected authors or geographic areas (MARGOLIN, 2015: 2)—poses the problem of how to widen chronologies and subjects, but also interpretative categories.

The enlargement required apparently collides with the urgency of defining the borders of design. The solution could be not so much in blurring its definition but in the awareness of its continuous overlapping and contaminations with art, technique, market, communication, as Castelnuevo recommended.

While this practice can be found in several recent works, especially regarding the different branches of the project, it is difficult to communicate these overlaps in a global history which has been extended to historical periods and to geographical areas.

Complex timeline-sequences that combine architecture, industrial design and graphics in a broader vision of the project disciplines can help to create an authentic mapping (the word often used by Margolin) and connect new figures and situations in a wider cultural and economic context.

The dilemma “Which came first, the chicken or the egg?” has the intent to define the roles and times of the historical data, its visualizations and interpretations. The most reasonable answer involves a change of the study model, going towards an action—more typical of design—based on disciplinary collaboration. In this case, therefore, it is not a problem of deciding whether the egg or the chicken came first but admitting that the path should be carried out in parallel. It should combine the skills of the historian with those of the graphic designer, applying them case-by-case and according to the analysis conducted by sociologists, anthropologists, political scientists, geographers, etc. in order to achieve the best results in terms of comprehension and communication and the creation of a multidisciplinary team becomes essential. Indeed, data-visualization cannot simply be defined as the representation of information in visual form, but it is a complex multidisciplinary field, ranging from data mining to visual arts, from psychology of perception to graphic and systemic design (REMONDINO, STABELLINI and TAMBORRINI, 2017).

Despite the promotion of interdisciplinary collaborations, there is still considerable resistance. The strength of multidisciplinary, the openness to different know-how, knowledge, points of view and fields, shapes data representation as a multiform tool. It could be characterized by its dynamism in response to the latest technological, formal and contextual challenges, guaranteeing the right flexibility to the needs of a context and a history in which dynamism is intrinsic.

To a narrative of openness and knowledge, however, only occasionally follows an inclusive practice able to satisfy on one hand administrative/bureaucratic aspects, and on the other to operate at the level of imagination, culture and widespread and shared responsibility. Mentioning the thought of Margolin, in this complex information world, the democratic nature should not be understood and pursued in its more traditional sense but instead as a process articulated in the design of democracy as an essential condition coming from the contribution and collaboration of different involved actors and a process designed for democracy with a transparent point of view and bottom-up participation. A process rooted in a broader democratic system capable of highlighting and activating, through design, initiatives aimed at shaping a sustainable society.²⁴

This work—all to be developed further—begins with the history data. It ends with the implications of trends that see data as an increasing, widespread and accessible manifestation to the individual as well as to the community. This work begins with a dialogue in the past between space and time. It ends with the awareness that knowledge is one of the most powerful tools to enable future sustainable behaviours.

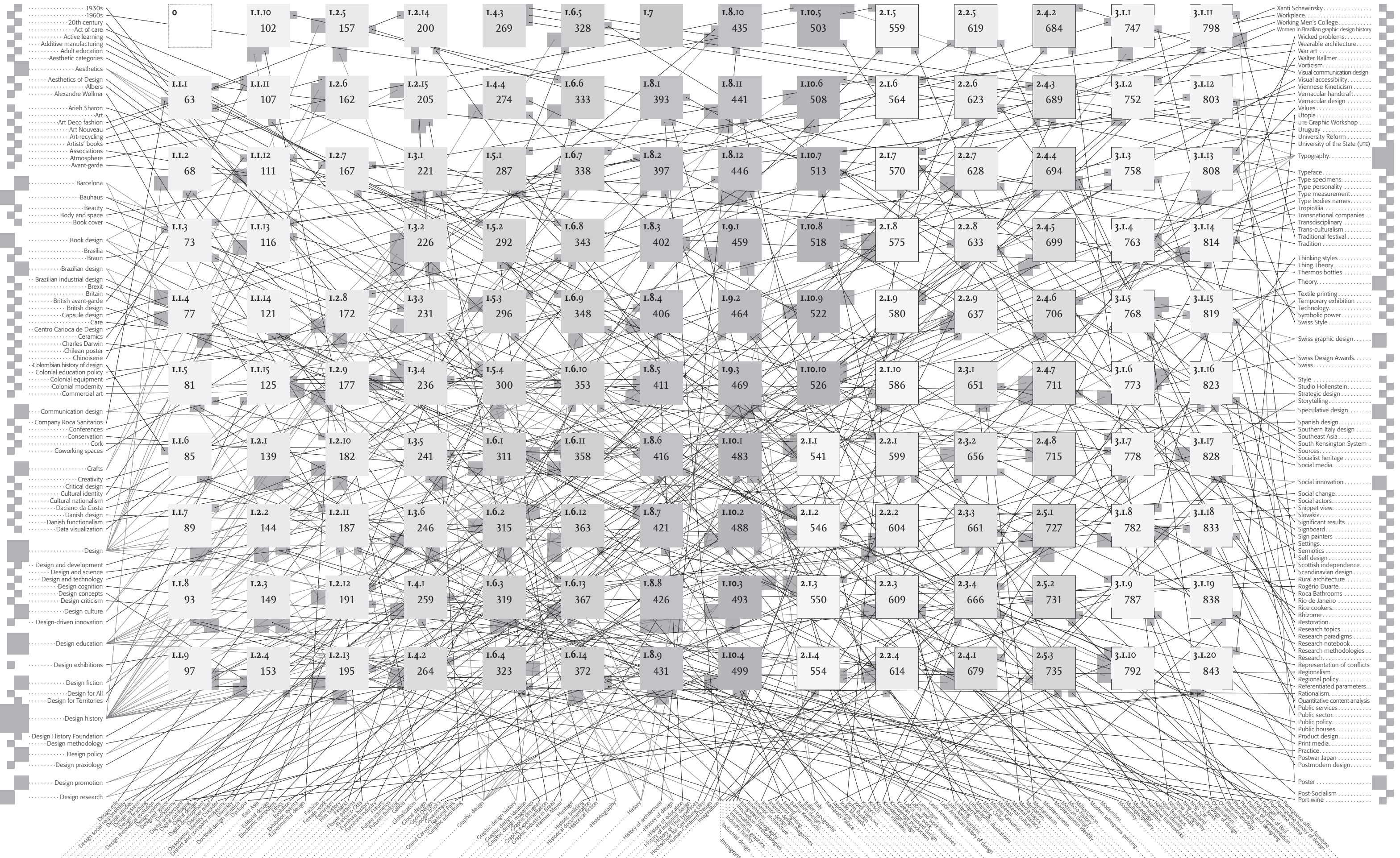
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