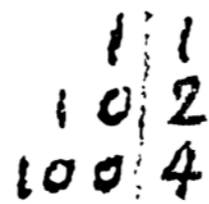


HOCHSCHULE OSNABRÜCK

UNIVERSITY OF APPLIED SCIENCES

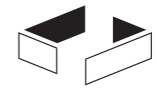


**Leibniz
Universität
Hannover**

DLA 2021

M. Sc. Daniel Theidel

„Physical-digital tools in the landscape architectural design process
and their feedback on the designer“



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CV / M. Sc. Daniel Theidel

activities at universities

09 / 2016 - Current

University of Applied Sciences Osnabrück / scientific assistance
workshop landscape architecture

activities outside universities

12 / 2015 - 04 / 2019

Büro Drecker, Hannover

09 / 2013 - 02 / 2015

Hammerich Landschaftsarchitekten,
Neustadt am Rübenberge

Independent work

02 / 2015 - aktuell

self-employment with services in architectural model making

Education

WiSe 2010 - WiSe 2012 / 13

Leibniz Universität Hannover
Master of Science (M. Sc.) Landschaftsarchitektur

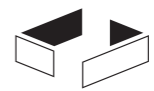
WiSe 2007 - SoSe 2010

Fachhochschule Osnabrück
Bachelor of Engineering (B.Eng.) Freiraumplanung

WiSe 2007 - SoSe 2010

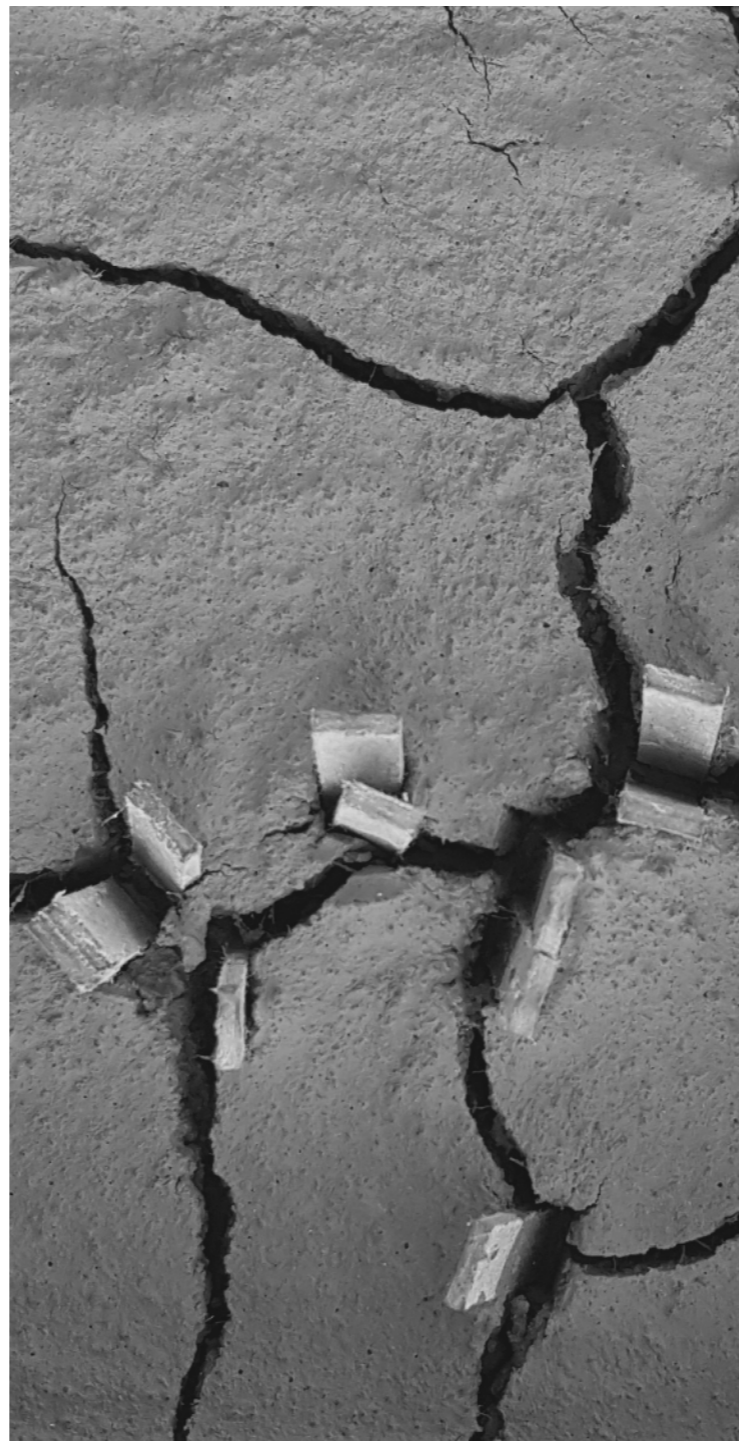
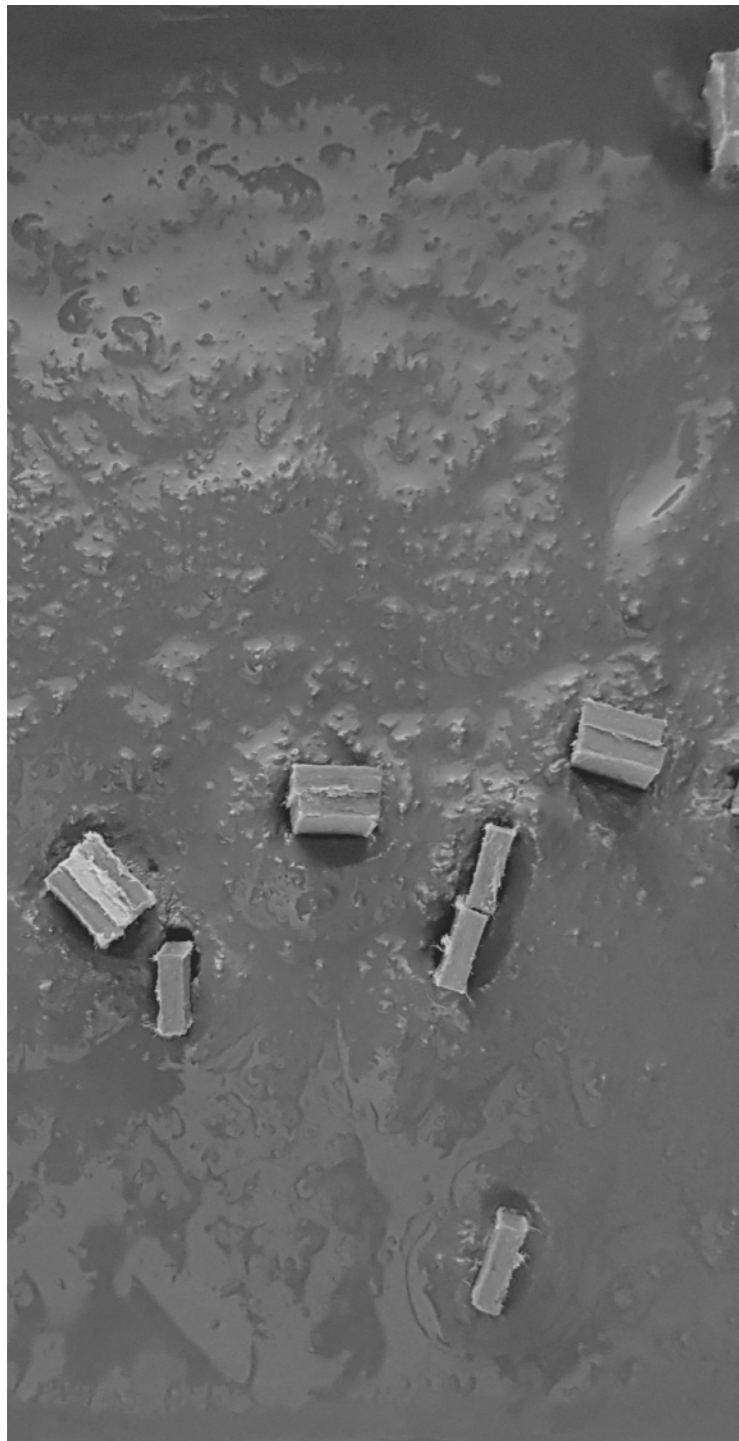
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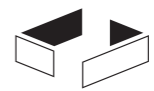




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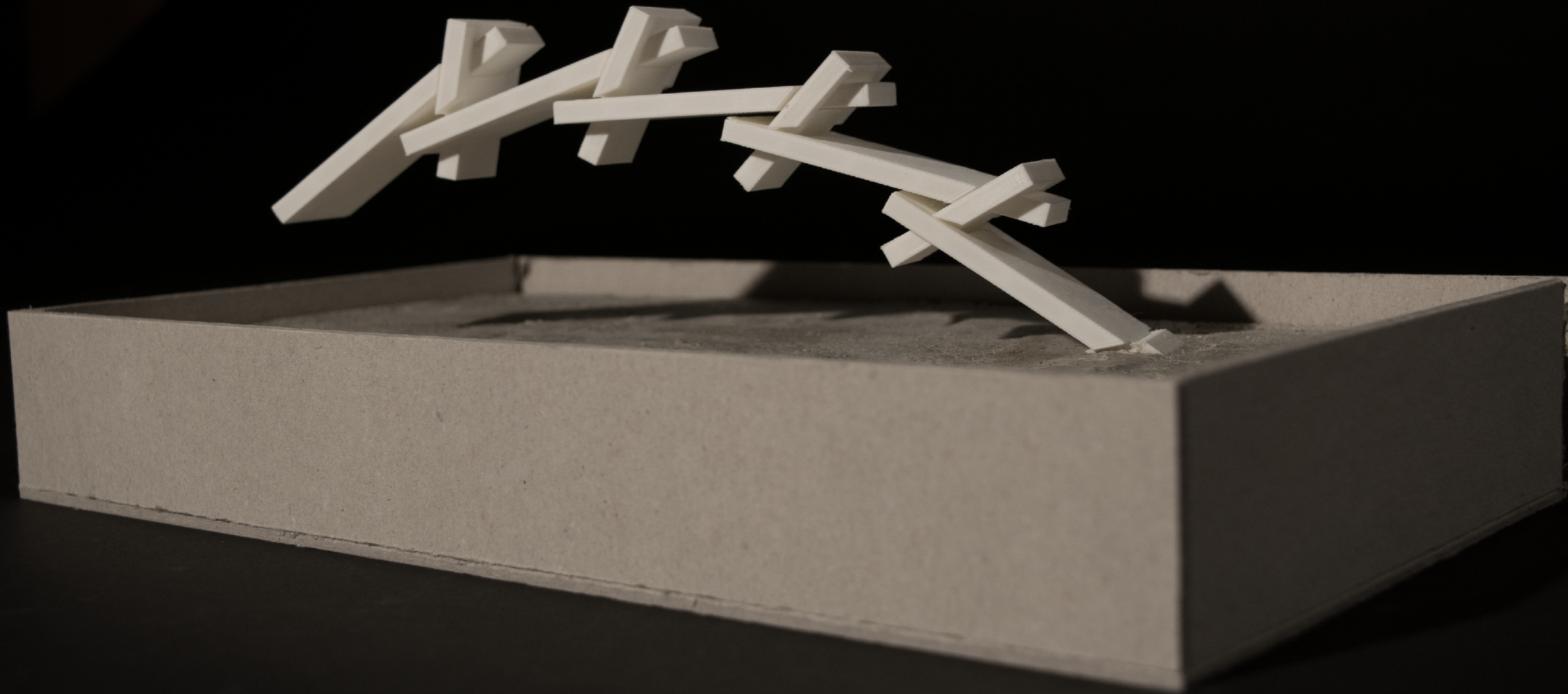
Arbeit

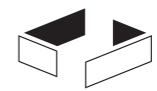




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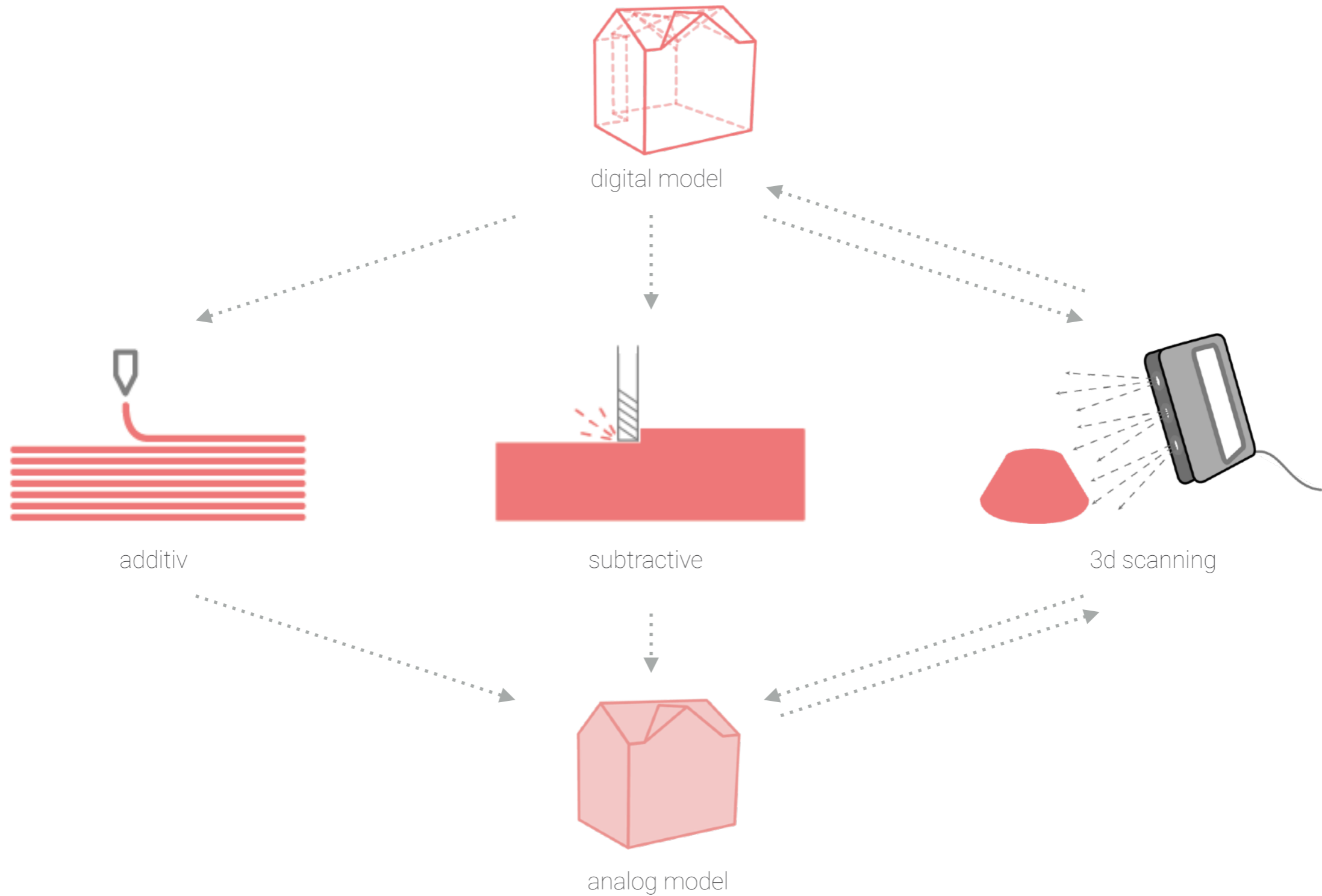
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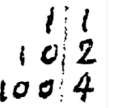
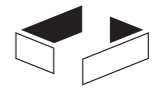




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Consideration: Model





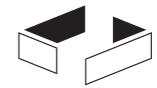
Goal

Research question

How does the physical-digital workflow influence the landscape architectural design process in the context of the model and what are the consequences for the use of these?

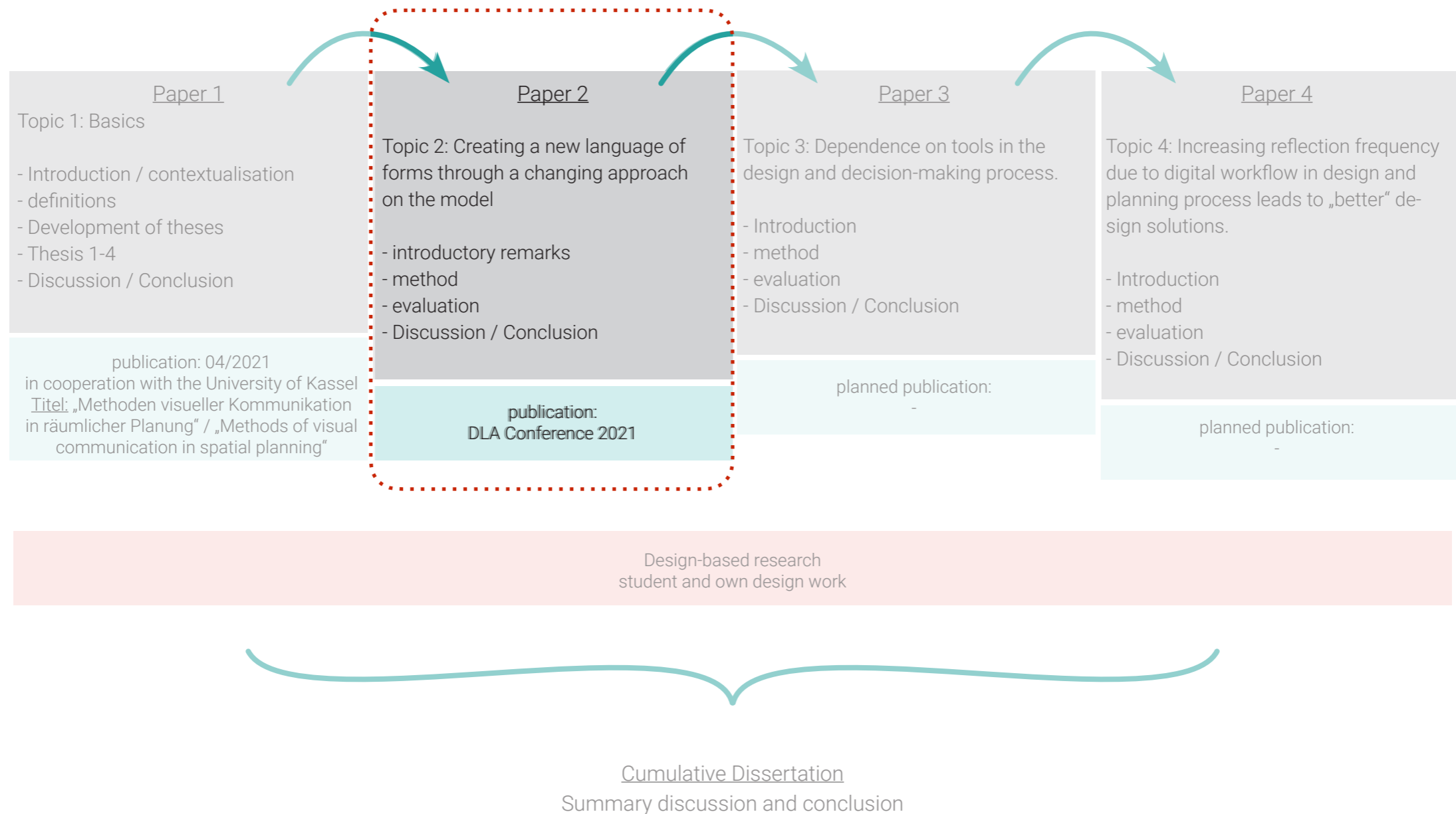
Theses:

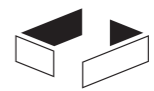
1. Increasing precision and thus dwindling imagination in the model / digital as well as analog.
→ feigned exactness?
2. Dependence on tools in the design and decision-making process. → The feigned freedom?
3. Increasing frequency of reflection in the design and planning process leads to more informed design solutions.
4. Creation of a new design language through a changing approach to the digital and analog model.
→ a practical example.



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Struktur

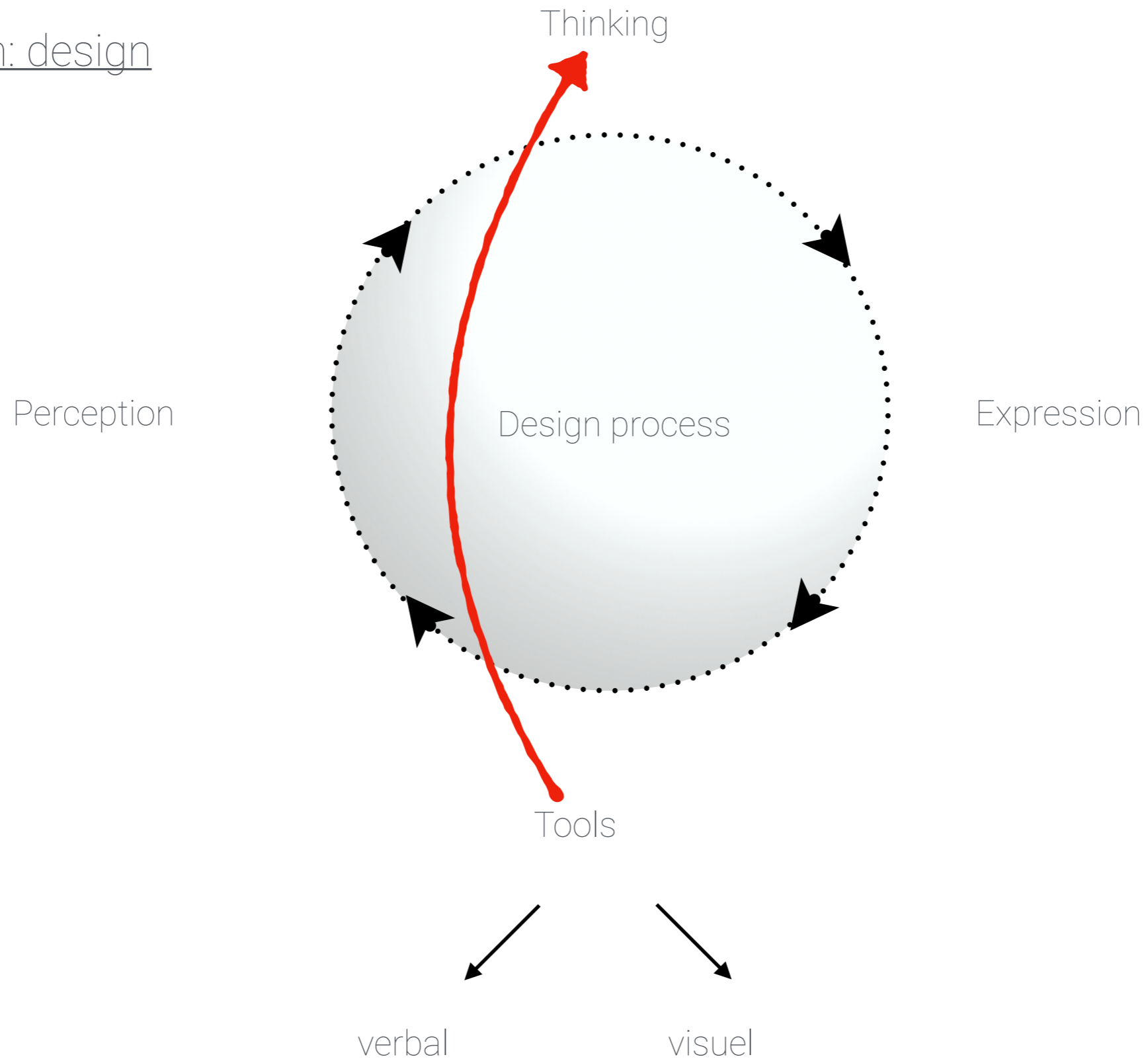


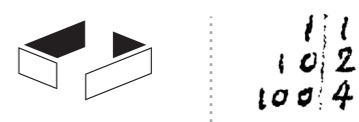


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Consideration: design

(cf. Gänshirt)





Paper 2

DLA Konferenz 21

Titel: Searching for New Ways to Design Landscape

- Experience with parametric design in interaction with computer-aided manufacturing methods in landscape architecture and their effects on the design process -

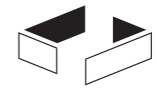
Content:

Based on a practical example (Pocket Park Roche / BRYUM / Basel) and the experiences made in connection with physical-digital technologies, the 4th thesis from Paper 1 is supported. (Creation of a new design language through a changing approach to the digital and analog model.)

Method: Expert interview according to Mayring

Peer-review: double-blind

Publication: 2021

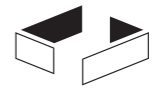


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Case Studie

The Pocket Park in Kaiseraugst, Switzerland, was chosen as the subject of this case study owing to its special type of development, its formulation in relation to the formal language of the ground covering, and the great precision of its execution.



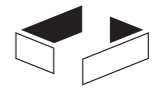


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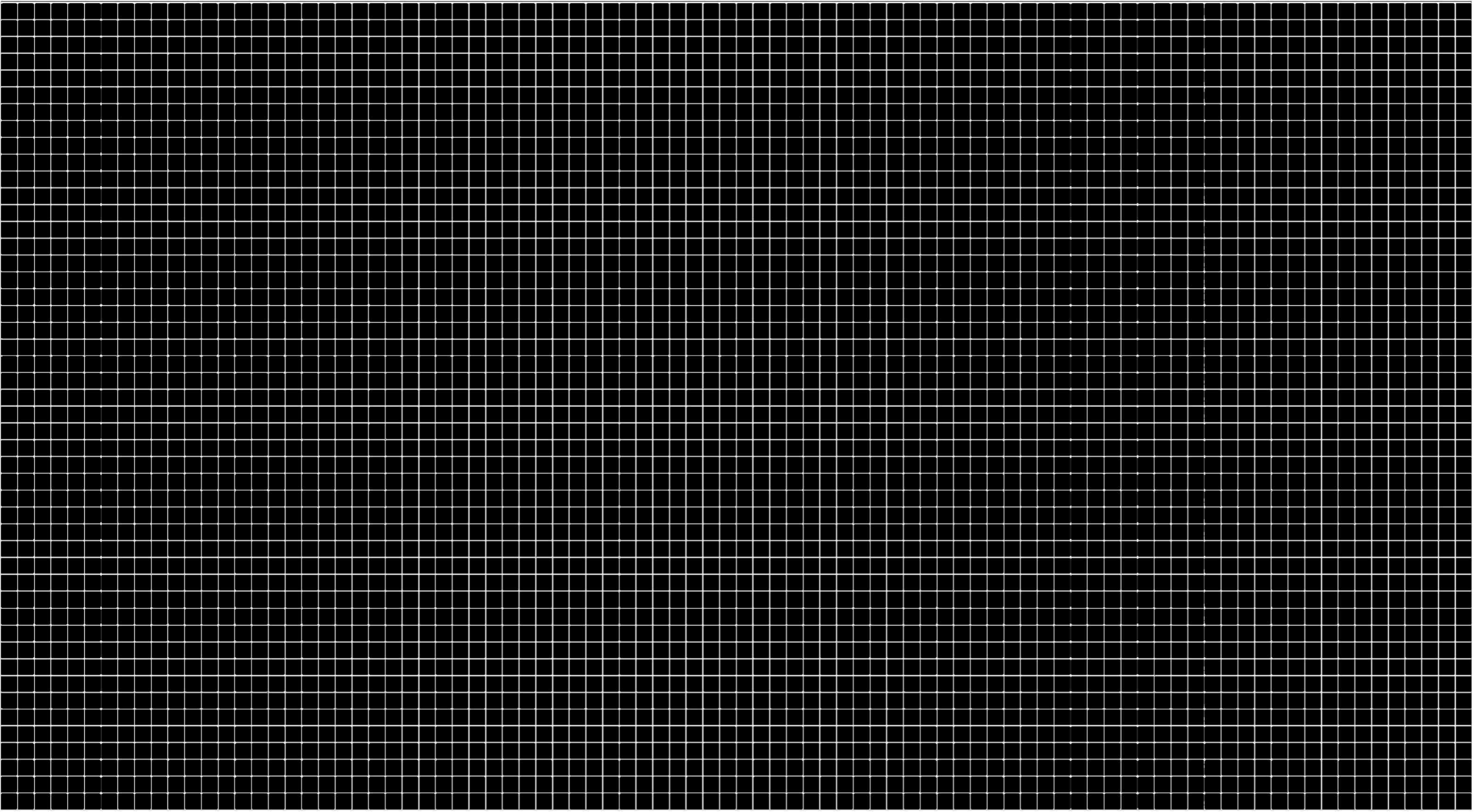
Case Studie

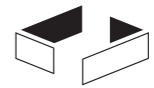
Method:

1. How would you define the term *design tools*?
2. Which design tools did you use during the design phase of the project (Pocket Park)?
3. Are there any design tools that are particularly helpful to you in the development of “new forms”*?
4. What advantages and disadvantages do digital models offer you compared to analog models in your design process?
5. What influences (other than the given task) guided you during the form-finding and design process?
6. ...

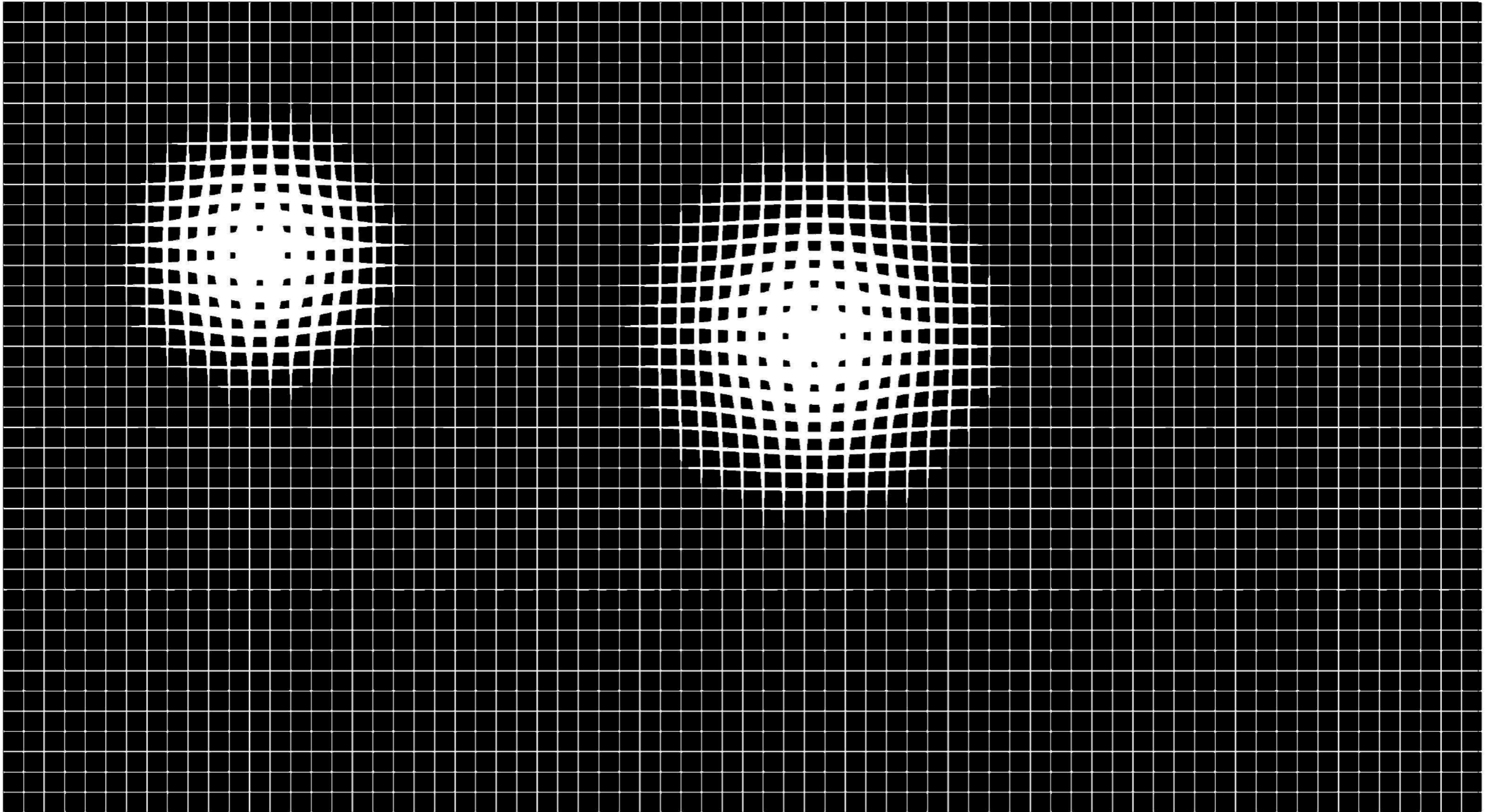


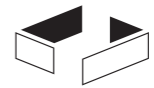
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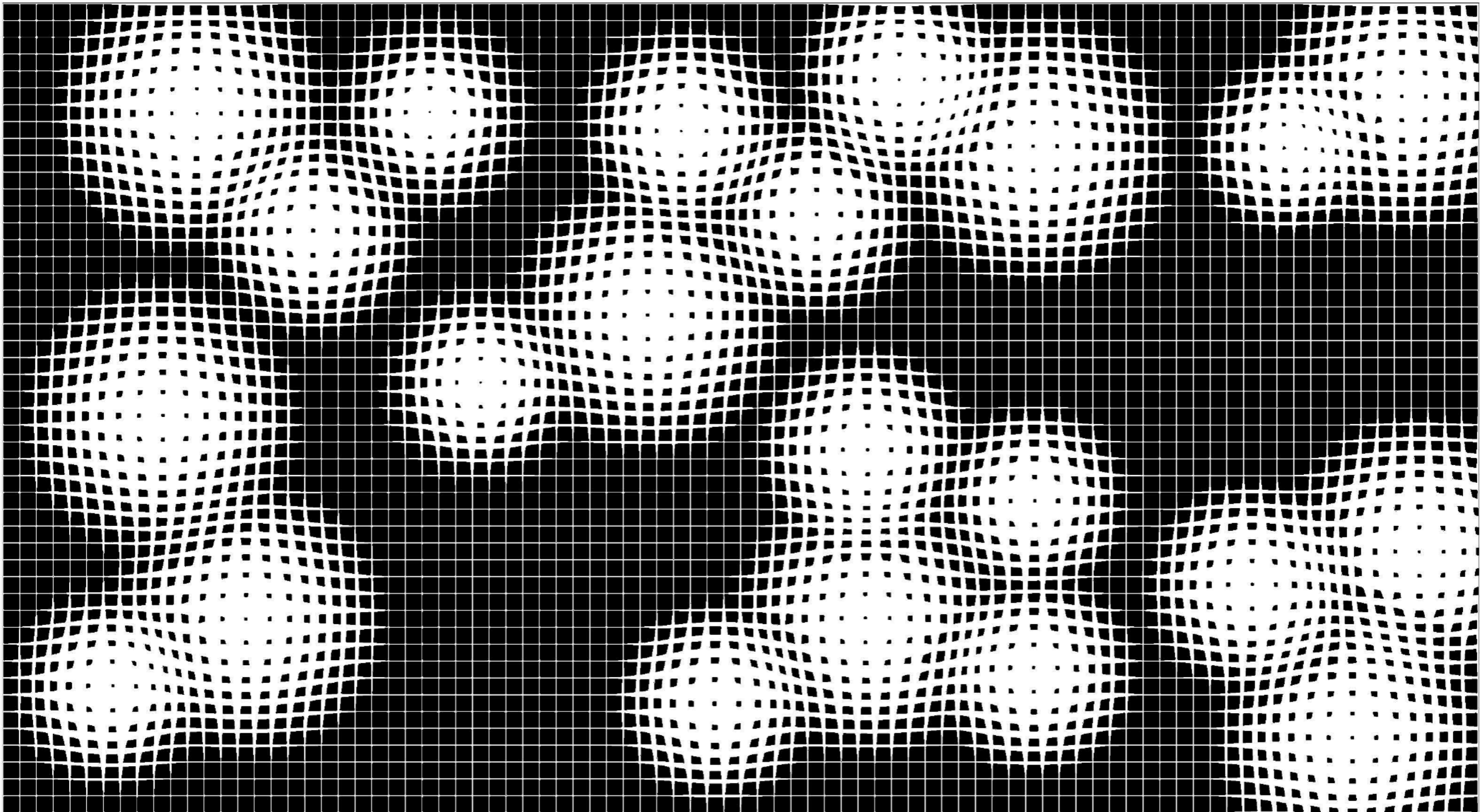


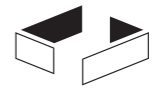
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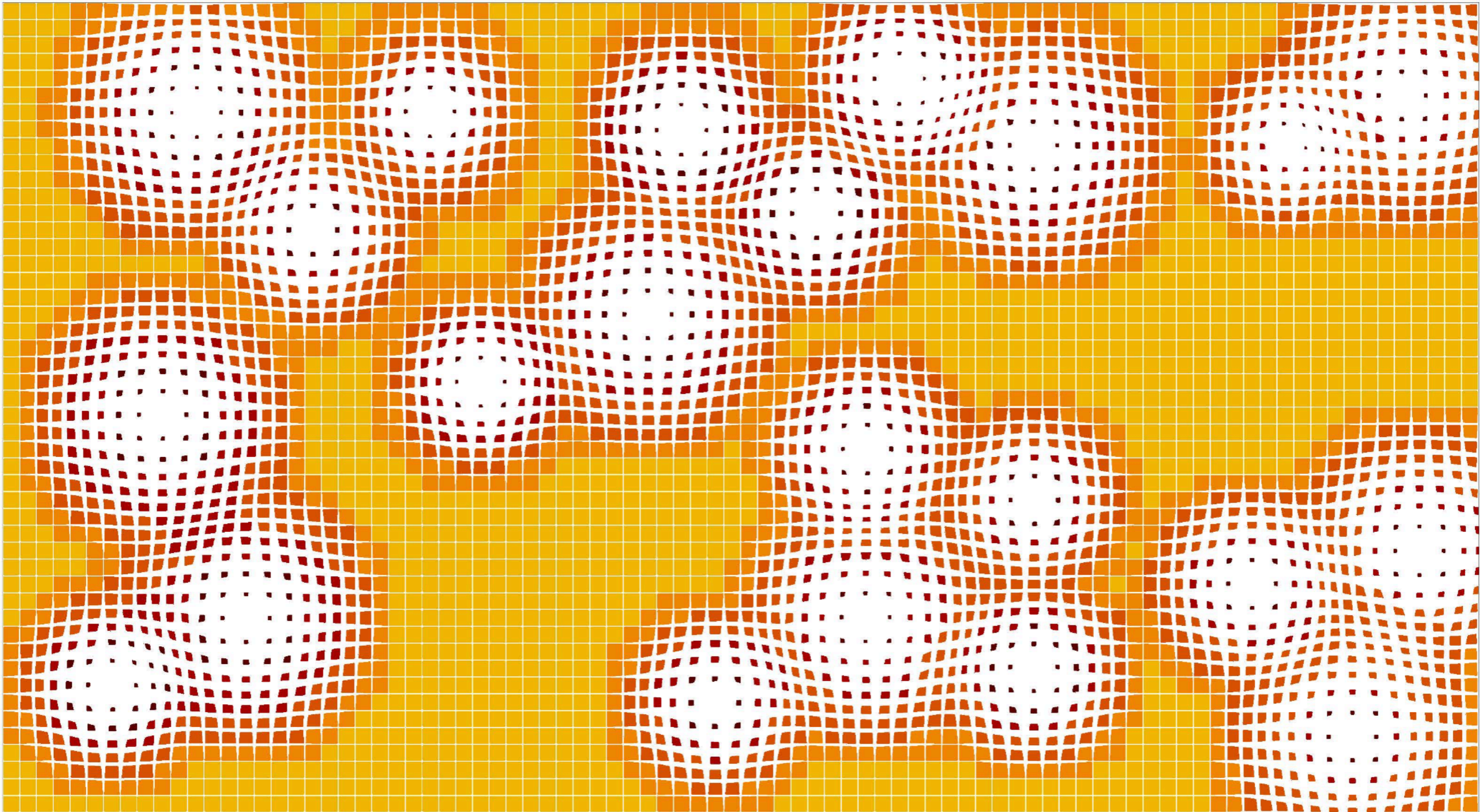


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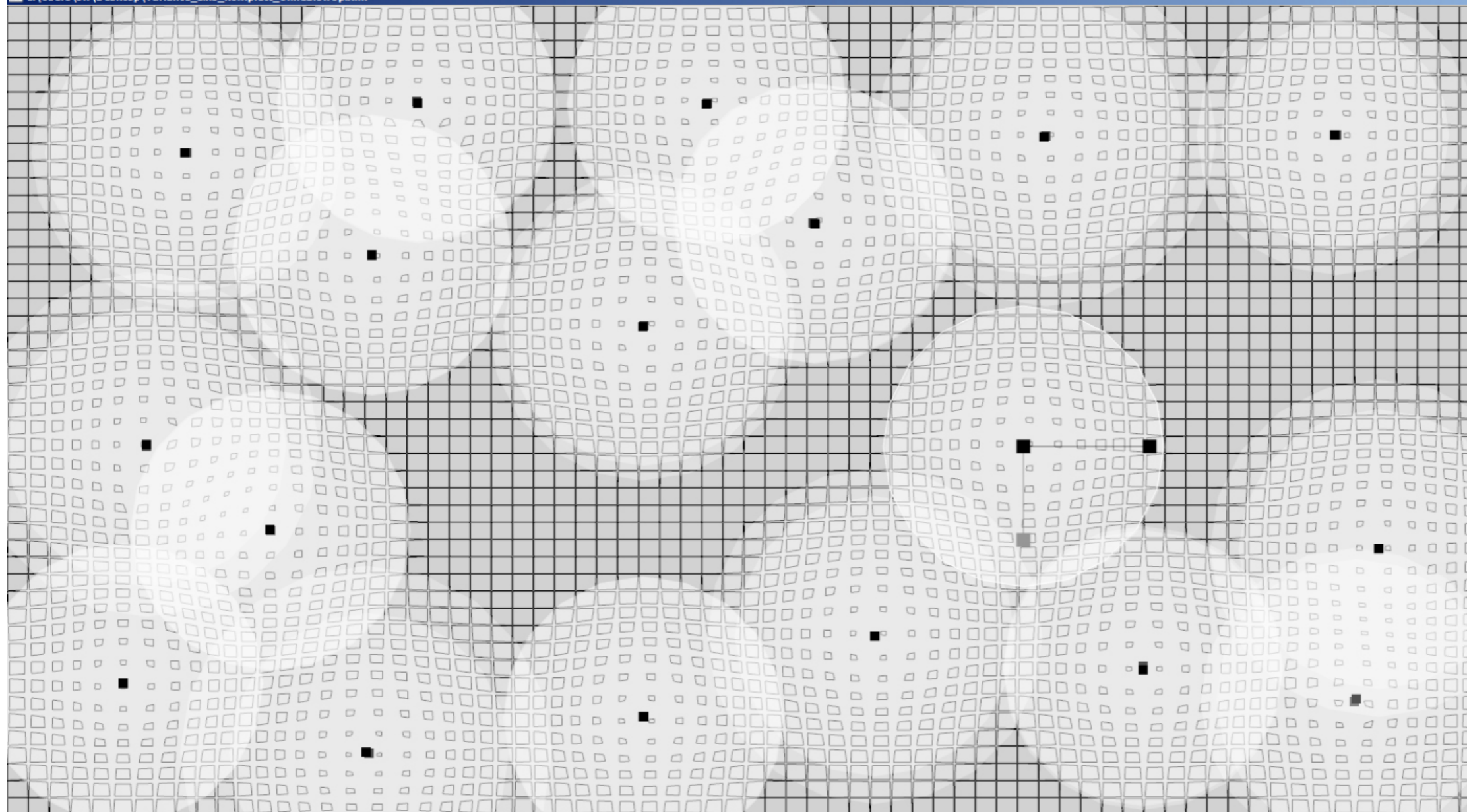
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- Load
- Load Background Image

Draw Attractors

- Add Attractors

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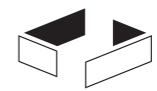
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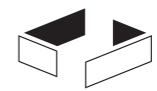
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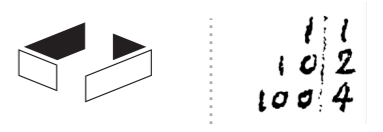
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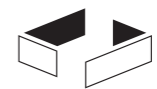




Results

1. Digital practices influence the designer.
2. Computer-aided manufacturing processes may encourage the renunciation of standardized results.
3. Curiosity and openness lead to innovation.
4. New styles can result from digital or physical-digital workflows.

Thanks for listening!



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sources

Images / Videos

Seite	Quelle	Zugriff
2	eigene Darstellung	
4	Zenke / Gudewehr / Auer	
5	eigene Darstellung	
7	eigene Darstellung	
8	eigene Darstellung	
10	www.BRYUM.org / S. Weinsberg	16.02.2019
12	www.BRYUM.org / S. Weinsberg	16.02.2019
13	www.BRYUM.org / S. Weinsberg	16.02.2019
14	www.BRYUM.org / S. Weinsberg	16.02.2019
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