

Position Paper Critical Making¹

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1. Why “Critical Making”?

As a result of globalization, social and technological developments, we increasingly witness practices that cross the disciplinary boundaries of art, design, engineering and technological making and (artistic) social intervention. Sometimes these practices unfold within established contexts of art spaces, design culture, technology labs and activist projects. [Explain the urgency of contemporary socio-/technological/cultural/political developments that makes artists/activists redefine their practice/leave the confines of their traditional disciplines.] Increasingly, however, they leave their respective boundaries; for example, when contemporary art spaces are used for political assemblies² and Internet anonymization services³, when social design and community art becomes neighbourhood activism⁴, when a media design grows into a technological development project for empowering contemporary artists⁵. Often, the positioning of these projects as "art", "design", "technology", "activism" is merely tactical (or even opportunistic), tailored to the now-existing institutions and discourses which are still acting within the categories of the Western 19th and 20th century arts.

'Critical Making' has the potential of giving these practices a common name. Originally coined in the context of design culture and do-it-yourself technology⁶, it gathers (a) practices that are defined by a common characteristic of criticality rather than a common disciplinary and institutional context⁷ and (b) work approaches and attitudes of thinking-through-practice⁸.

Through the latter, Critical Making does not only cut through the disciplinary divides of art, design, activism and technology⁹. In Critical Making, there is no longer a divide between critical theory and artistic practice, but the practice itself is critical and philosophical. In this regard, Critical Making corresponds with contemporary philosophies that question the divide between idea and matter¹⁰. But where this thinking still manifests itself in the classical format of written theory, Critical Making negates the dichotomy between making and thinking.

¹ http://pad.riseup.net/p/critical_making

² Jonas Staal, New World Summit (2012-2017), Occupy movement presence at Berlin Biennial 2014

³ Trevor Paglen/Jacob Appelbaum, *Autonomy Cube*, 2014; !Mediengruppe Bitnik, *Random Darknet Shopper* (2014-2016)

⁴ Jeanne van Heeswijk, *Freehouse* (1998-2017); Black Quantum Futurism, *Community Futures Lab* (2015-2017)

⁵ Danja Vasiliev/Gottfried Haider/WORM, *Hotglue & Superglue* (2009-2017)

⁶ Matt Ratto, *DIY Citizenship*, MIT Press, 2014

⁷ Garnet Hertz, *Critical Making* zines (2012)

⁸ Matt Ratto in *We Make Things*, documentary by Ryan Varga, 2011 (9:30-10:53). In a paper, he defines Critical Making as "a mode of materially productive engagement that is intended to bridge the gap between creative physical and conceptual exploration" (Ratto, Matt, Critical Making: Conceptual and Material Studies in Technology and Social Life, in: *The Information Society*, vol. 27, issue 5, 2011, 252).

⁹ But also through the divide between practice as the "base" and theory as the "superstructure" that has shaped Western thinking and culture from Platonism to Marxism.

¹⁰ including pragmatism, actor-network theory, object-oriented ontology and New Materialism.

2. Where does Critical Making take place?

To date, Critical Making - as coined by Matt Ratto and Garnet Hertz - refers to design practices that critically engage with technology. Open Source cultural production therefore is a general characteristic of Critical Making. This may entail alternative forms of authorship and copyright, as well as a reconfiguration of traditional linear design workflows of conceptualization, construction and distribution. Distribution, in this context, includes multiplication and archiving. In networked Critical Making processes, all these efforts can take place simultaneously and anywhere.

Critical Making in this sense is *not* confined to particular sites. While Critical Making, in Ratto's and Hertz' original perspective, had the Maker movement and its Maker spaces (i.e. FabLabs, hacklabs and other public workshop facilities for distributed, personal digital fabrication) as its points of departure, their concept has become highly inclusive and therefore emancipated itself from this specific context.

In our project, we experimentally take the concept of Critical Making outside the Maker movement and Maker spaces into the larger, general field of contemporary art and design practices. The question is: Can Critical Making reinvigorate the concept of criticality in art and design theory and practice, in a technologically informed cultural field? Can existing art and design practices conversely radicalize the criticality of Critical Making? And how can this be made constructive?

3. Why an arts perspective on Critical Making?

The notion of Critical Making is not specific to art and design, but potentially encompasses any practice that combines making with criticality. This inclusivity - which many art and design movements fought for in the previous century - is without doubt an asset of Critical Making. Still, we think that a more specific arts perspective might not constrain, but will enrich the Critical Making discourse with two specific qualities: artistic research and criticality of discourse.

The liaison between thinking and making characterizes Critical Making as well as artistic research as it was established as a new academic discipline at the end of the 20th century. Artistic research typically involves practices in which textual and artistic approaches are closely interrelated. In artistic research, the researcher produces writing that critically reflects on the making, while conversely the practice informs and feeds into the writing. How artistic research may expand the vocabulary of Critical Making will be subject of further investigation.

Traditionally, contemporary art has had an edge over design in regards to the rigor of its critical discourse. Drawing on critical theory, conceptual art and institutional critique have radically addressed issues of gender, class, ethnicity and even questioned art as such, in its aesthetics, ethics, economics and politics. There needs to be research on the extent to which this radicality can inform expanded notions of Critical Making.

Conversely, the Open Source and DIY practices of Critical Making can be constructively used to question under-reflected and under-criticized modes of production and distribution in contemporary art: authorship, intellectual property, ownership, privileges of participation.

4. Where our project aims to make a difference

In our research project, we will address the following new questions:

- How can art, design and technology fulfil a critical and reflexive role in society, including “the possibility of revealing and challenging power relations” (Mouffe, *Agonistics, Thinking the World Politically*, 2013, 81)?
- How can aesthetics still play a role, other than as surface aesthetics of consumer culture and of commodification based on advertisement?
- We observe that the 21st century creative industries as a hybrid of art, design and technology have largely subsumed 20th century art and culture under economic terms. Critical Making offers an alternative logic of including creative disciplines into an overarching concept that is not economically, but socially and artistically driven.

Concluding questions to be addressed, partly taken from visitor feedback:

- How do we position *making*?
- How do we understand *criticality*? (See related text in full project description)
- Can Critical Making be a pedagogy?
- To which degree are our points descriptive or prescriptive?
- Who needs a new concept?
- Which difference do we make to existing concepts of Critical Making?
- How far can histories of Critical Making be extended into the past?