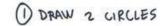


DRAW A HORSE

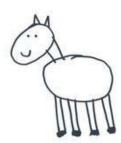
BY VAN OKTOP



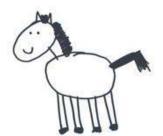




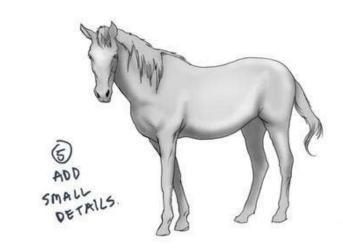
DRAW THE LEGS



3 DRAW THE FACE



DRAW THE HAIR



How does design interact with the medium? How does the medium interact with design?

extended drawing

design based project which inquires generative media within design (processes)

generative = assumes that a tool influences the thinking
media = any extension of oneself (Marshall McLuhan)
design = field of inquiry, specifically architectural design

informed by

design practice

personal design practice + interviews with colleagues in the field

teaching practice

personal teaching practice teaching freehand drawing + interviews with colleagues in the field

musical practice

personal experience, research into game-led improvisation + interviews with improvisitory directed musicians/ artists

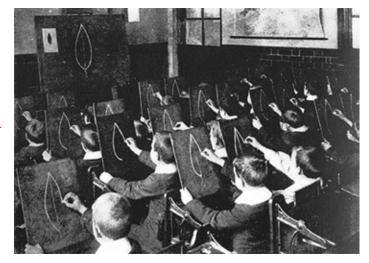
What is design-based drawing [what it is-what it is not-what is it used for-how is it used] How is design-based drawing viewed/approached within practice?

What does it constitute for Extended Drawing?

What is the influence of a medium upon the design process – upon the designed artefact?

What motivates media choice during design processes?

What is the influence of degitalising the design practice and what are the consequences for the design practice? Do we have to re-evaluate design-based drawing and if so – how?



Rolf Hughes
Ann Heylighen

2004: looking for similarities between analogue and digital media.

2012: active blending of media through design, through improvisation

searching for an equilibrium between analogue and digital, between idea and observation

matrix	
analoog	digitaal
schets	illustraties
het op papier zetten van een idee	colordraw, illustrator, coreldraw, e.a.
tekening	tekening
naar waarheid vastleggen van een object	alle tekenpaketten
opwerking	beeldbewerking
kleurleer, kleurtechnieken	photoshop, photopaint e.a.
technisch tekenen	technisch tekenen
mechanische weergave van een probleem	Arkey, Star, Vectorworks, Autocad, e.a.
perspectiefleer	perspectiefleer
2/ 3- puntsperspectieftheorie, axonometrie	3-D-studioMax, Arkey, form Z, stratavision, e.a.
lay- out	lay- out
het ordenen van informatie	Quarkexpress, Indesign, e.a.

Deze matrix pretendeert geen volledigheid maar neemt enkele van de vele keuzemogelijkheden en paden die architecten kunnen volgen bij het maken van grafische presentaties in zich op. Maquettebouw, fotografie en driedimensionale animaties alsook beamerpresentaties horen ook in dit rijtje thuis maar strikt genomen zijn dit geen disciplines van de architecturale tekenkunde.

IDEE VS. WAARNEMEN

schets

snelle weergave van een idee potlood, bister, naald, verf... colordraw, illustrator, coreldraw, e.a.

tekening/ Illustraties uitwerken van een idee

opwerking / beeldbewerking

kleurleer, kleurtechnieken photoshop, gimp, photopaint e.a.

technisch tekenen

mechanische weergave van een probleem Vectorworks, Autocad, e.a.

perspectiefleer

1/2/ 3- puntsperspectieftheorie, parallelle perspectieven Vectorworks, Autocad, e.a., 3-D-studioMax, form Z, Rhinoceros, sketchup, samurai3D

modelleren

driedimensionaal maken van een ruimtelijk idee maquette, 3D-model, ruimtelijke opstelling, installatie

lay- out

het ordenen van informatie Quarkexpress, Indesign, publisher, e.a.

reproductie

het herwerken van een beeld mechanisch, digitaal, manueel, fotografisch

processing

vorm- en beeldgeneratie d.m.v. scripting open composities/ speltheorie

(rapid) prototyping

(snel) vervaardigen van protoypes stereolythografie, fused deposition modelling laminated object modelling, selective laser sinering frezen

teaching

outine an inquired framework to reapproach the teaching of (basics) within drawing in a contemporary design curriculum by designing experiments which inquire relationships between different media.

research topics:

- relationship and overlap between digital and physical drawing and modelling
- balance between skill & dexterity vs. expressing design 'content' and observing the world 'out there'



The rapid dissemination of digital technology in the last decades of the 20th century has changed our society in such a way that today's students no longer represent the people our educational system was designed to teach. 'New' students think and process information fundamentally different from their predecessors

design research

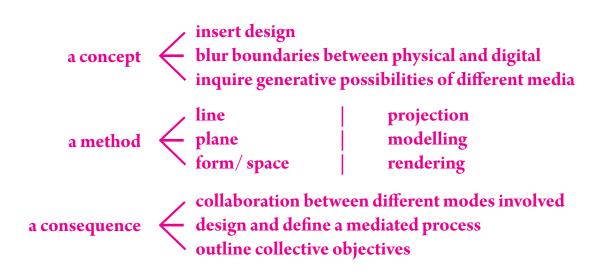
inquire an (alternative) approach to teach "drawing"

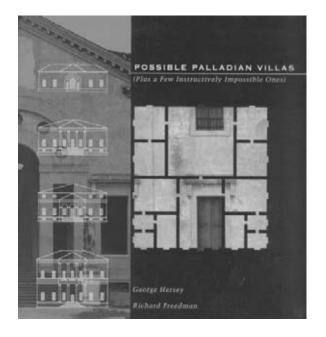
- design as a way of asking questions
- research as a way to ask larger questions which move beyond the limited scope of a particular desgin problem
- design-experiments as a way to carry out formative research to test and refine (educational) designs



teaching goal:

develop a collaborative (digital/physical) learning approach fusing the development of skill with designerly thinking This intention informed the design of two iterative design experiments (14mm/24mm)





previous experiment inspired the design of a process.

Within 'Possible Palladian Villas" Hersey and Freedman develop 'form' by writing an algorithm which is able to draw Palladian villas 'at random'.

Translating the constraints towards drawing instructions enabled us to experiment with form and space without really designing but through intuitively following a series of rules.

The non-original, unidirectional, historical and non-sensical* of the exercise lead to the decision of designing a similar approach.

^{*} to introduce a personal design phase we invited the students to redevelop the villa based on a hilarious concept to prove the unlimited capacity of drawing

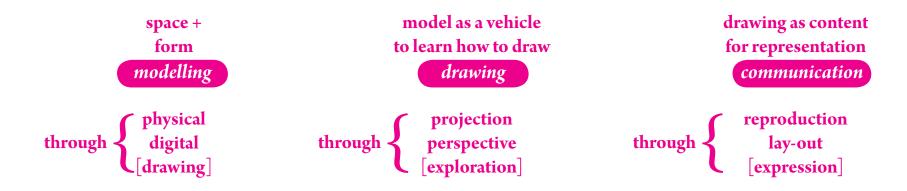
teaching+design experiments

Improvised Game Processes as a vehicle to develop form and space in order to learn how to draw and represent architectural constructs.

14mm + 24mm

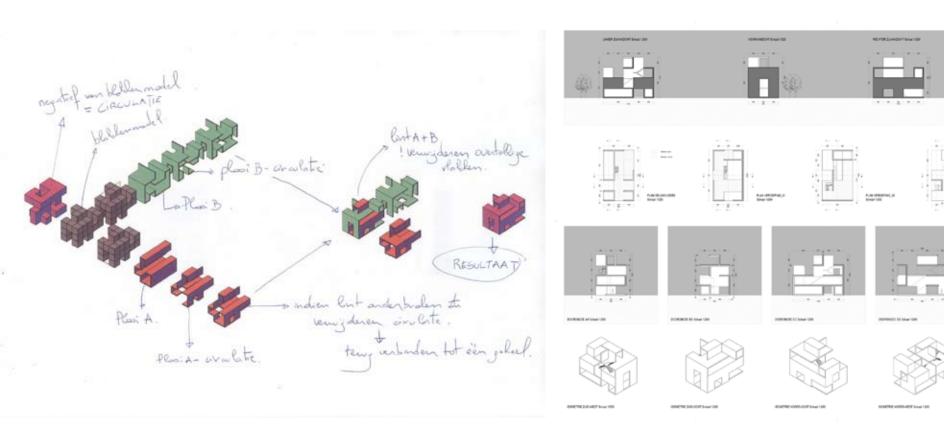


Game-Led Composition as a tool for learning: change focus from "what to play" to "how to play it" change focus from "what to draw" to "how to draw it"

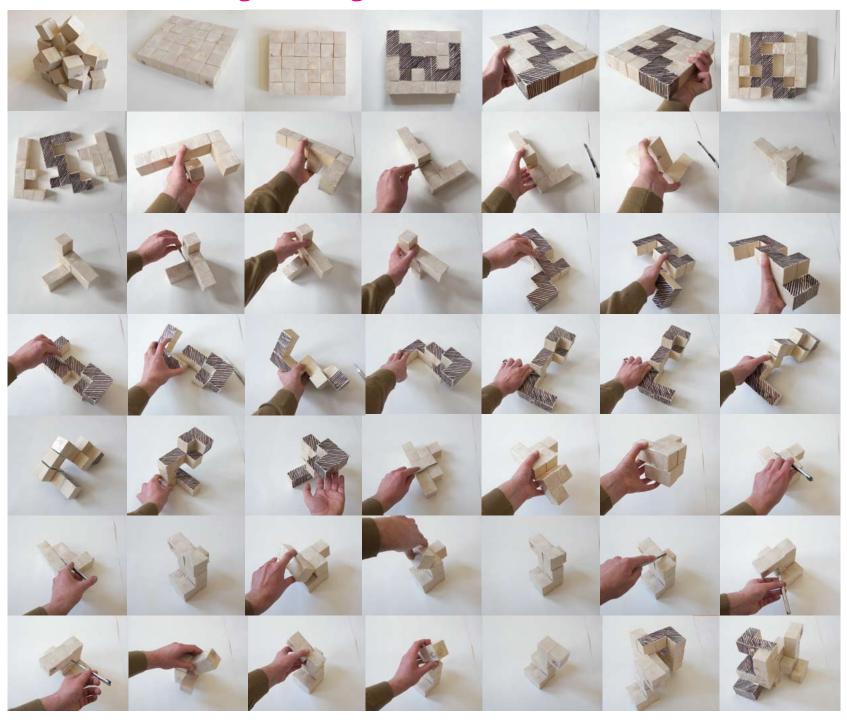


14mm.1: modelling

14mm.2: modelling (digital interpretation)



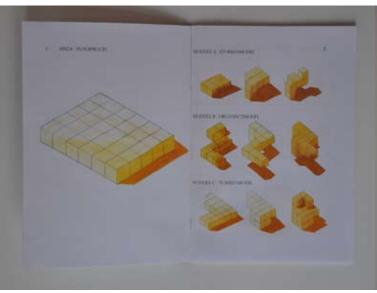
24mm.1: modelling (folding form)

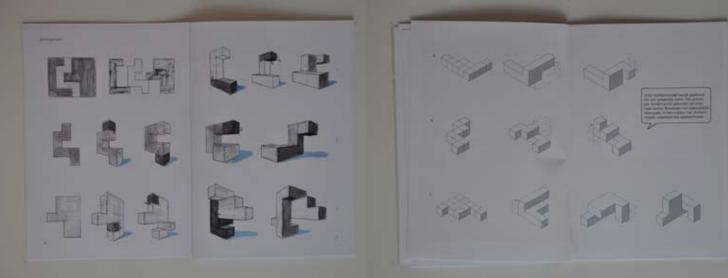


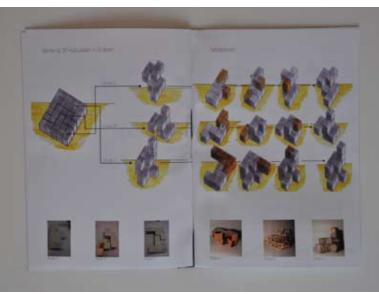
24mm.2: modelling (developing 3 different models)



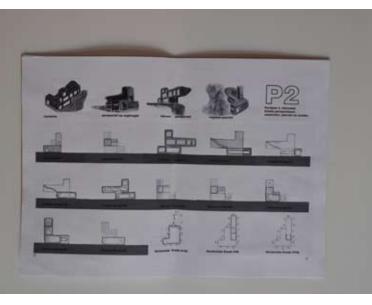
24mm.2: visualising a process



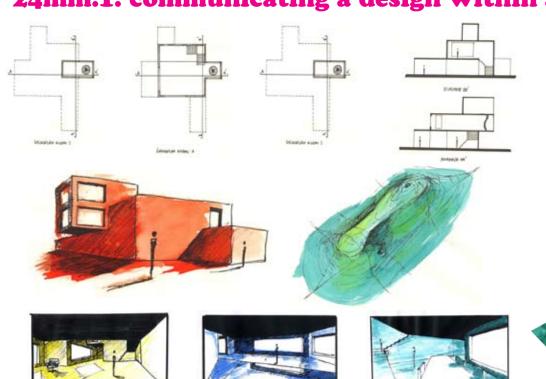


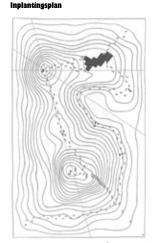


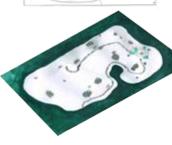


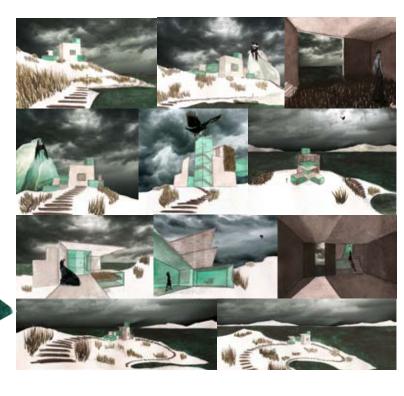


24mm.1: communicating a design within a context



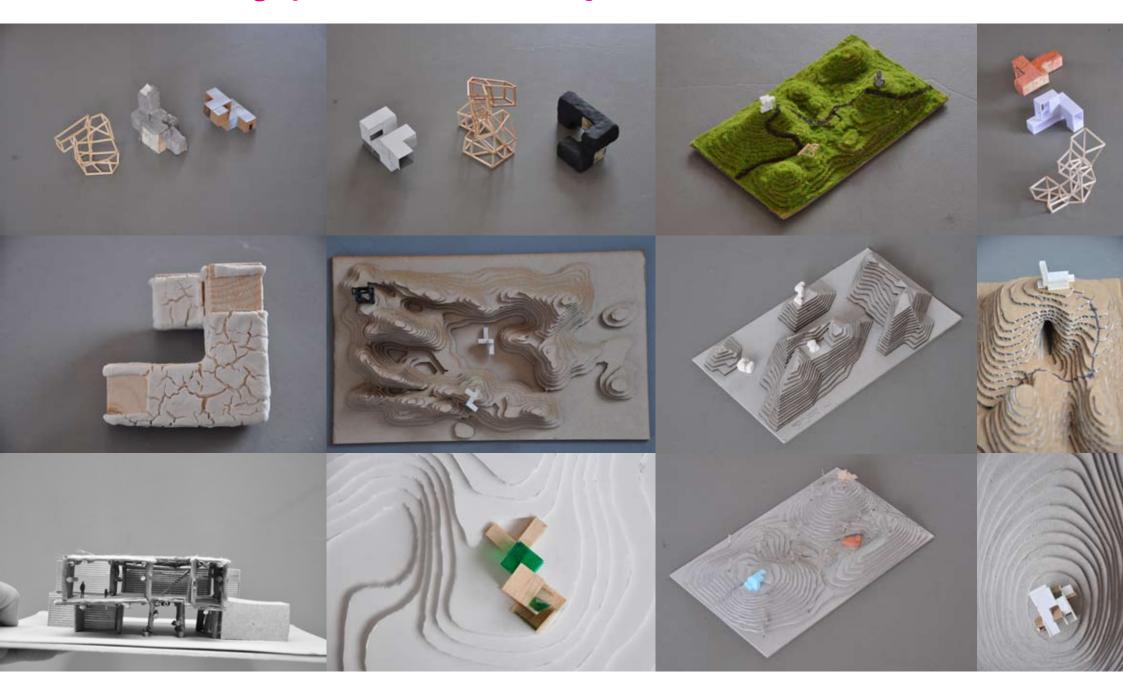


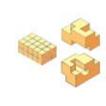


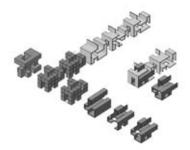




24mm.1: modelling by material and landscape









Evaluation&Discussion:

Design based aspects:

Game generates form but we are still far from 'sketching in ways that facilitate emergence and reinterpretation' (Purcell and Gero)

Both processes lead to individual and creative structures but more research is needed into the generative possibilities of the media.

vehicle to introduce design-based techniques

14mm = introduces basic drawing techniques, projection, perspective and basic poster communication

24mm = extends upon different techniques (editing, publishing, 3D-modelling) and inquires different forms and aspects of context

Both exercises are able to accomodate the curricular content but there are still some aspects are underrepresented in both exercises:

cylindrical geometry,

drawing from life (observation) and live situations,

other ways of seeing and looking [inquiring the ephemeral aspects of architecture and design]

mediated structure to facilitate collaboration

Process is mediated, communicated and negotiated amongst all parties involved but we still define assignments alongside of each other. The process allows for deviations and different interpretations according to the priorities of the teachers involved. We should investigate durable ways of collaboration to achieve a certain synergy between the digital and the physical. The overall goal should be investigated in order to achieve a synergy and enable both realms to interchange phases.



