



JOHANNES VOLLMER

portfolio



USER EXPERIENCE DESIGN

and user interface design

prototyping
usability research
design thinking

Literal the

Whitespace Char

Sequence
Member 1
Member 2
Member 3

Any Of
Option
Option
Option

Literal for

Configuration

- Multiple Matches
- Case Insensitive
- Multiline Matches

node-based editing
visualized hierarchy. prevents errors.
Elm (~React). CSS. HTML.

```
const regex = /\s(?:the|for)/g
```

2019

NODE-BASED EDITING

johannesvollmer.com/regex-nodes/

what?

“Regex Nodes” allows constructing regular expressions by embracing a visual node workflow.

Regular expressions are a special kind of source code. It encodes a pattern that can be used to make complex text searches. By creating and connecting nodes, you can construct such a search pattern. The resulting pattern is applied to the background text in real-time.

why?

Compared to working with text, which requires conscious reading efforts, this visualisation offloads the mental workload to the eyes. Furthermore, this approach prevents errors upfront. The network of nodes can not be connected in a way that results in an invalid expression. To support a fast interaction cycle, the real-time preview in the background provides immediate feedback.

how?

I developed the website with Elm, which is similar to ReactJS. However, in contrast to JavaScript, Elm prevents errors upfront, just like the node-based design. It refuses to compile the website if there are any errors, allowing not a single error to surface at run-time. This immensely reduces the implementation and maintenance costs, especially in the long run.

B25 Einsetzen

Rolle: Unbesetzt

Werkzeug: Schablone

Entscheidungskraft: Nach Vorgabe

Rückmeldung: Unbewertet

Zusatz A

Zusatz B

Technologie Kontrolle: Kontrollierbar

Technologie Beitrag: Unterstützend

tangible interactions
object manipulation as user interface.
Unity. C#. blender.

youtu.be/NZLAZilev08

2020

TANGIBLE INTERACTIONS

what?

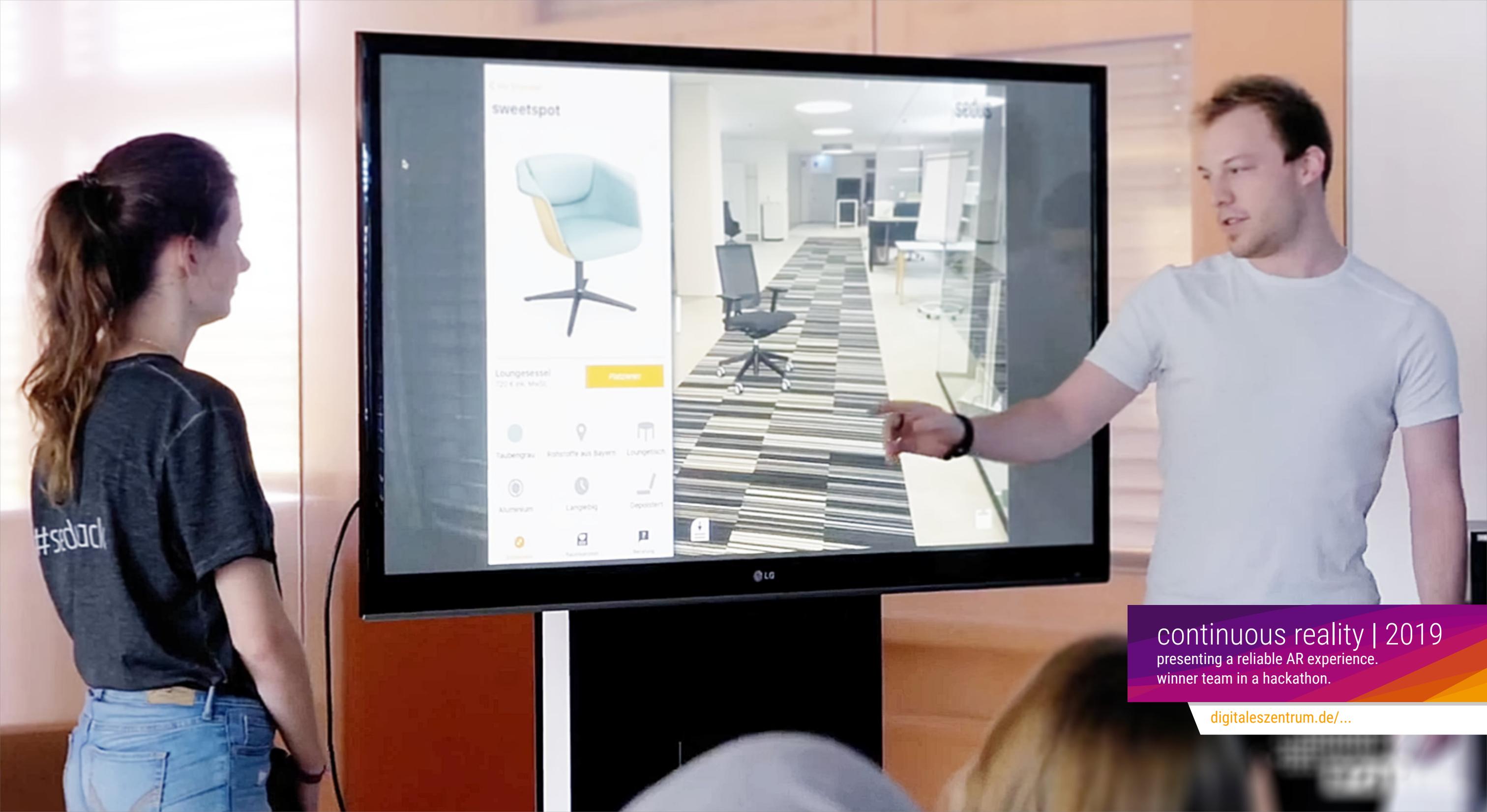
Plan and evaluate complex process flows in virtual reality! Discuss process steps where they will take place. Specify what needs to be done, who does it, what materials are required, and where the materials are flowing.

why?

The interaction of this flow graph was designed to behave like any other object in virtual reality: Grab it, move it, place it. The goal of this philosophy is to create intuitive interactions, by imitating the real world that surrounds us every day.

how?

I implemented the design in Unity3d with C#. The flexible software architecture is designed to rapidly create variations of the prototype. The headset used is an HTC Vive with two controllers.



sweetspot



Loungesessel
700 € inkl. MwSt. Platzieren

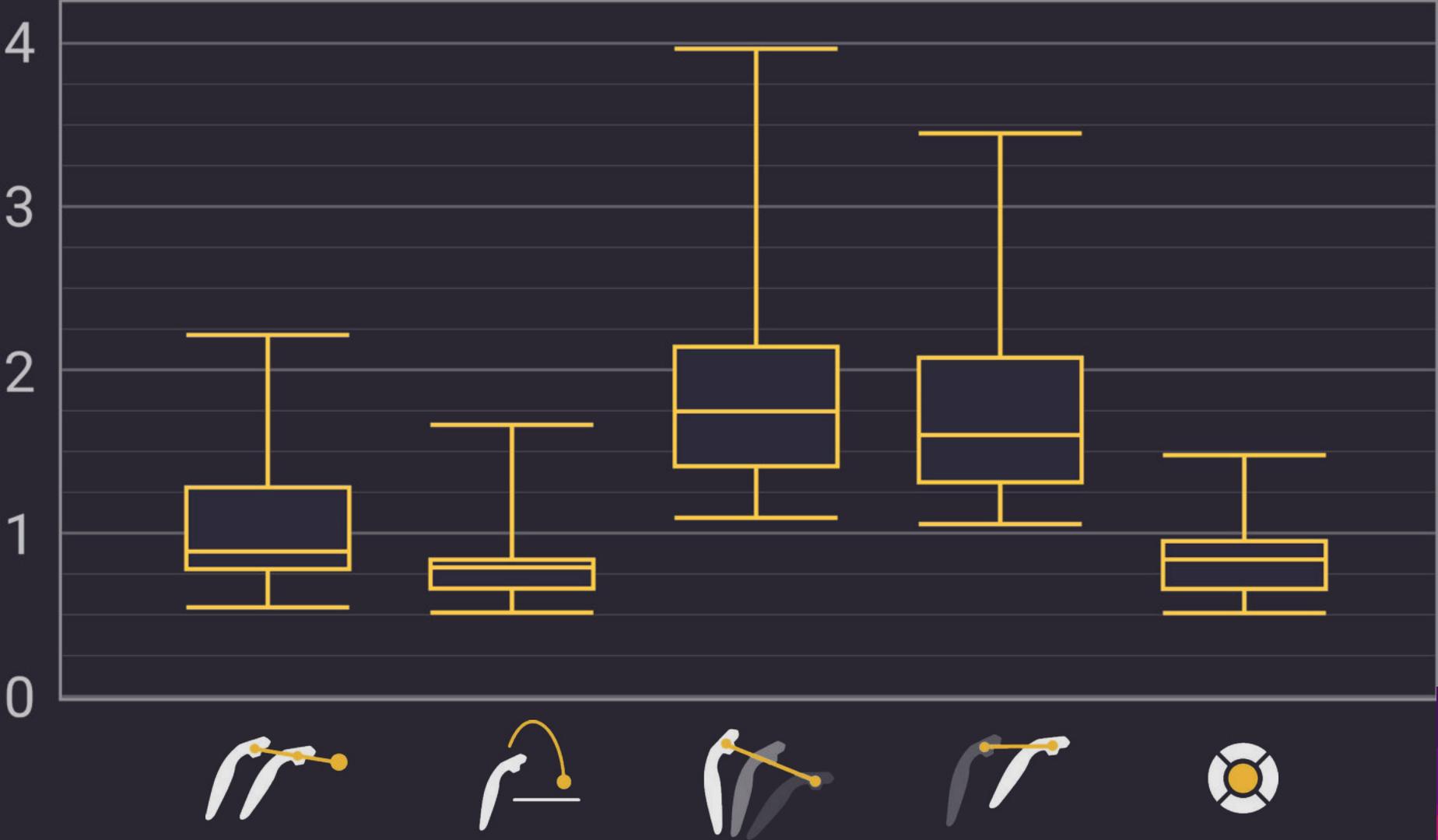
- Taubengrau
- Kohlestoffe aus Bayern
- Loungefläch
- Aluminium
- Langlebig
- Depotiert
- Nachbestellen
- Service

continuous reality | 2019

presenting a reliable AR experience.
winner team in a hackathon.

[digitaleszentrum.de/...](https://digitaleszentrum.de/)

Minutes passed, from grabbing the first cube to grabbing the last



movement in VR
user experience study results.
five teleportation concepts compared.

github.com/johannesvollmer/...

Board

Pattern

Pattern Mode

Load and Save

Board Size

600

400

Survive Rules

0	1	2
3	4	5
6	7	8

Revive Rules

0	1	2
3	4	5
6	7	8

Animation Speed

300

View

Cell Mode

Zoom Sensitivity

100

Generation

simulation in webgl | 2017
the game of life simulated on the gpu.
third winner in programming contest.

johannesvollmer.com/...



VISUAL DESIGN

aesthetics in colour and shape

photo retouching

compositing

illustration

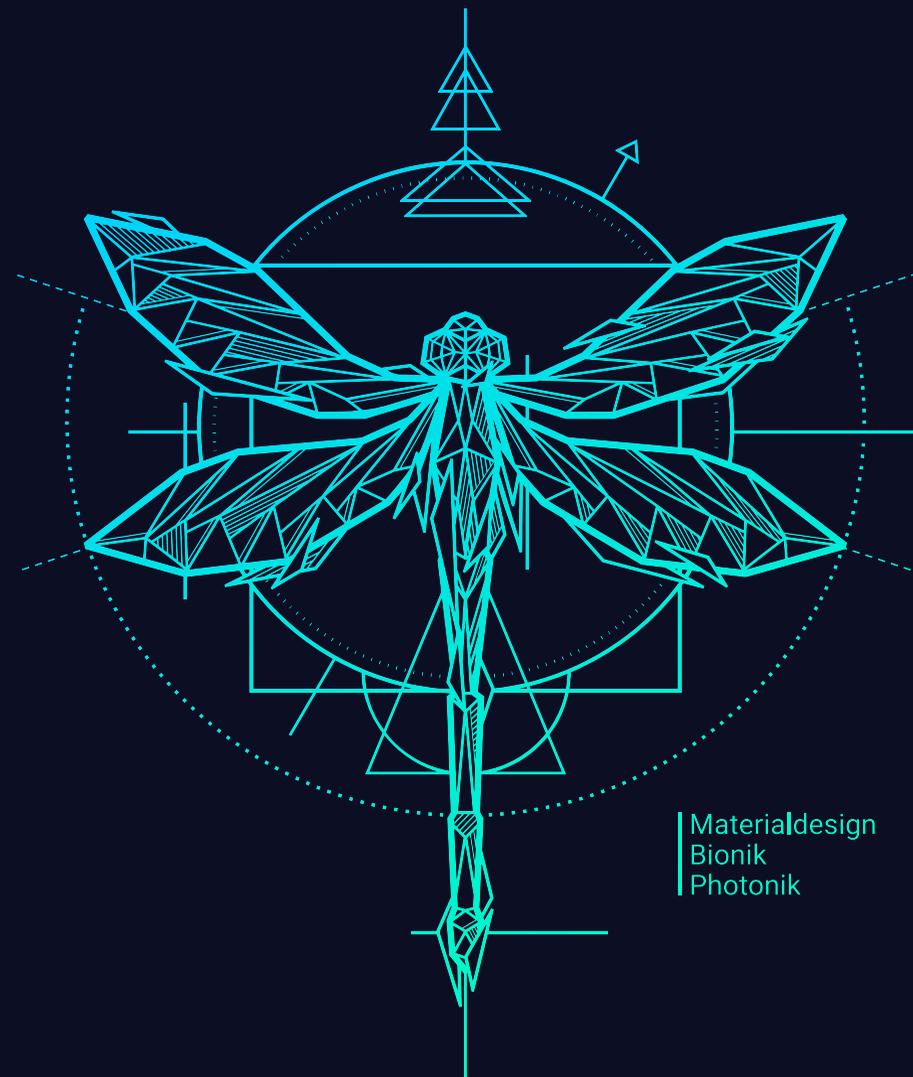
logo



raw edited



photography
photography. lighting. photo editing.
affinity photo (~adobe photoshop).



Materialdesign
Bionik
Photonik

mascot shirt imprint
for an engineering course.
affinity designer (~adobe illustrator)

The logo for ELENGEE features a stylized 'E' icon on the left, composed of overlapping circular and linear shapes in a brown-to-gold gradient. To the right, the word 'ELENGEE' is written in a bold, sans-serif font with a color gradient from red to gold.

ELENGEE

The logo for MEDI NERDS features the word 'MEDI' in white, bold, italicized sans-serif font on a black rectangular background. A stylized caduceus symbol is positioned vertically between 'MEDI' and 'NERDS'. The word 'NERDS' is also in white, bold, italicized sans-serif font on a black rectangular background.

MEDI NERDS

A decorative box with a purple-to-orange gradient background containing text about logo design services.

logo design
color-agnostic shapes.
affinity designer (~adobe illustrator)



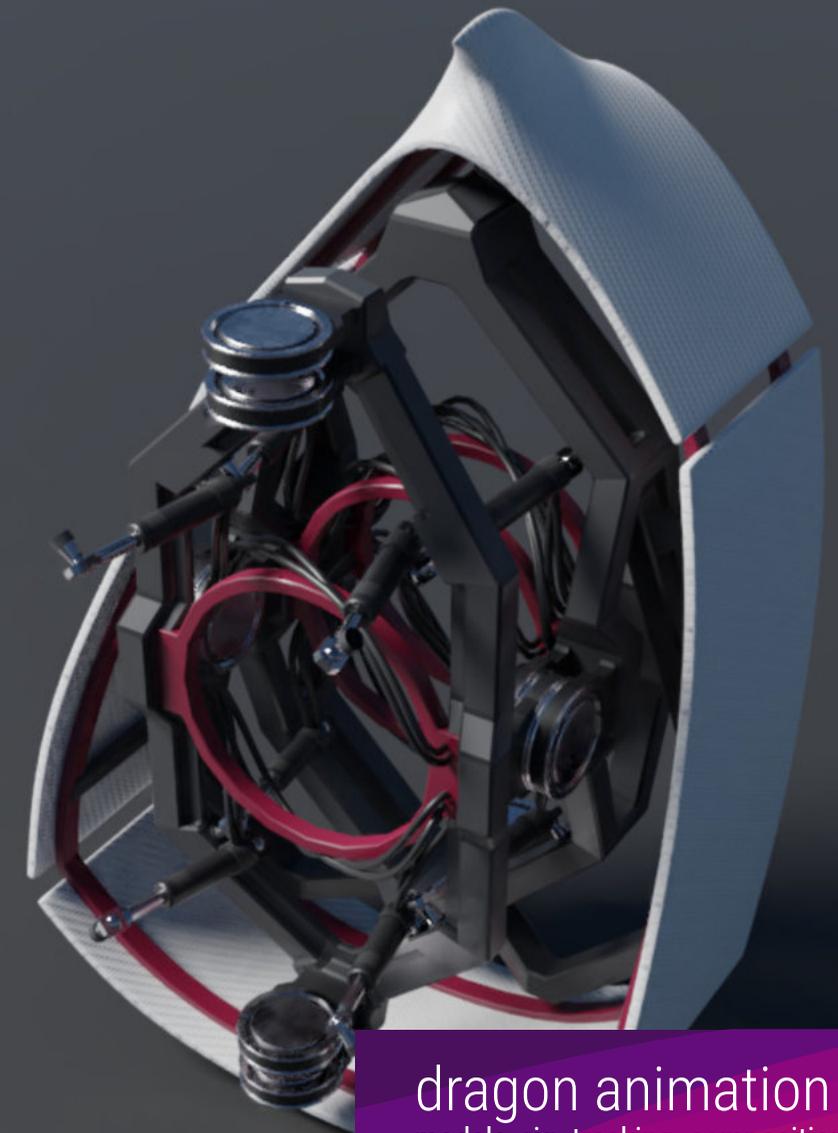
3D VISUALISATION

symbolic or realistic

modelling
shading
lighting
compositing



photoreal scenery | 2015
concept. models. light. composition.
maya. arnold. photoshop.



dragon animation | 2019

models. rig. tracking. composition.
blender. maya. 3d equalizer. nuke.

youtu.be/xa0Ispl2odU



ancient civilisation | 2013

models. textures. rendering.
blender. cycles. photoshop.



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