

Sharing!

A Tentative Set of FabML Descriptors

Peter Troxler, Research Professor

Fab Lab Activist and Researcher



1. Background

2. Metadata

3. FabML Proposal



The Fab Charter

What is a fab lab?

Fab labs are a global network of local labs, enabling invention by providing access to tools for digital fabrication

What's in a fab lab?

Fab labs share an evolving inventory of core capabilities to make (almost) anything, allowing people and projects to be shared

What does the fab lab network provide?

Operational, educational, technical, financial, and logistical assistance beyond what's available within one lab

Who can use a fab lab?

Fab labs are available as a community resource, offering open access for individuals as well as scheduled access for programs

What are your responsibilities?

- safety:* not hurting people or machines
- operations:* assisting with cleaning, maintenance, and improving the fab
- knowledge:* contributing to documentation and instruction

What are your responsibilities?

knowledge: contributing to documentation ...

Who owns fab lab inventions?

Designs and processes developed in fab labs can be protected and sold however an inventor chooses, but should remain available for individuals to use and learn from

How can businesses use a fab lab?

Commercial activities can be prototyped and incubated in a fab lab, but they must not conflict with other uses, they should grow beyond rather than within the lab, and they are expected to benefit the inventors, labs, and networks that contribute to their success



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Responsibilities

knowledge: contributing to documentation ...

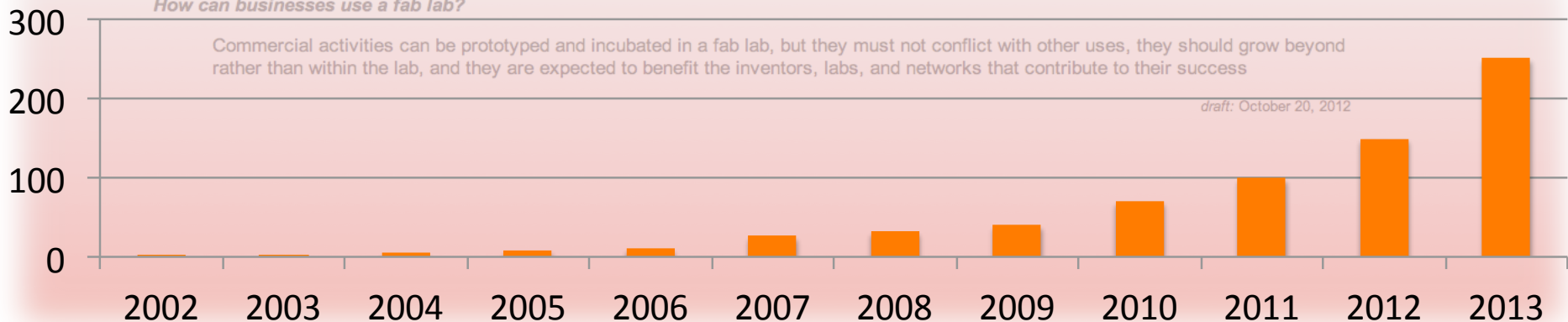
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draft: October 20, 2012





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conte
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<description>
```

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<![CDATA[ Wir haben uns eine Microsoft
Kinect (Xbox) geleistet, diese lässt sich
mit dem ReconstructMe Programm als
effizienter und schneller 3D Scanner
nutzen.
```

```
Mittelgrosse Objekte (z.B. Salatkopf)
und grosse Objekte (z.B. Autos) oder
ganze Räume lassen sich gut scannen,
kleine Objekte (z.B. Orange) sind
weniger geeignet.
```

```
ReconstructMe ist gratis für nicht
```



PROJEKTE

ANGEBOTE INFOS ARCHIV



3D-SCANNEN@FABLAB LUZERN

Wir haben uns eine Microsoft Kinect (Xbox) geleistet, diese lässt sich mit dem ReconstructMe Programm als effizienter und schneller 3D Scanner nutzen.

Mittelgrosse Objekte (z.B. Salatkopf) und grosse Objekte (z.B. Autos) oder ganze Räume lassen sich gut scannen, kleine Objekte (z.B. Orange) sind weniger geeignet

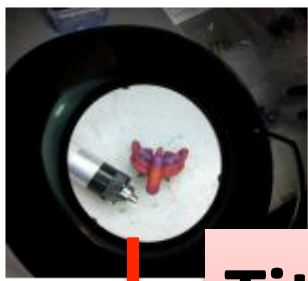
22. Jan 2013 by Roman Jurt.



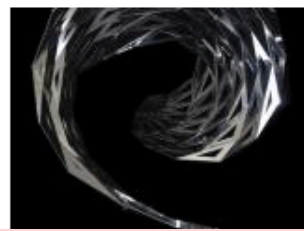
ERSTES "HOW TO"! BESCHRIFTUNG FABLAB LUZERN



sci-fi jewelry...



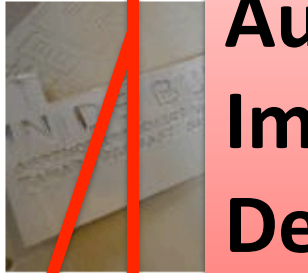
Entoforms at t



bold bags



bold bags



Triplex...



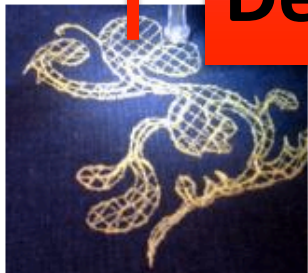
Pedigree Mobile



Test day with



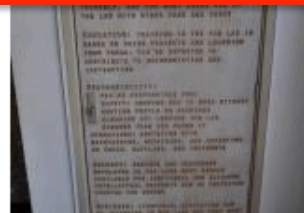
bold bags



Jeans Jacket...



Videomapping...

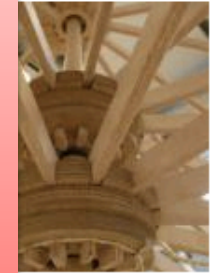


FabCharter



citymodel 3D

Title
Author
Image
Description
Materials
Processes
Machines
Settings
Design / Production Files



moiré parasol



ond the...



- Title
- Author
- Image
- Description
- Materials
- Processes
- Machines
- Settings
- Design / Production Files

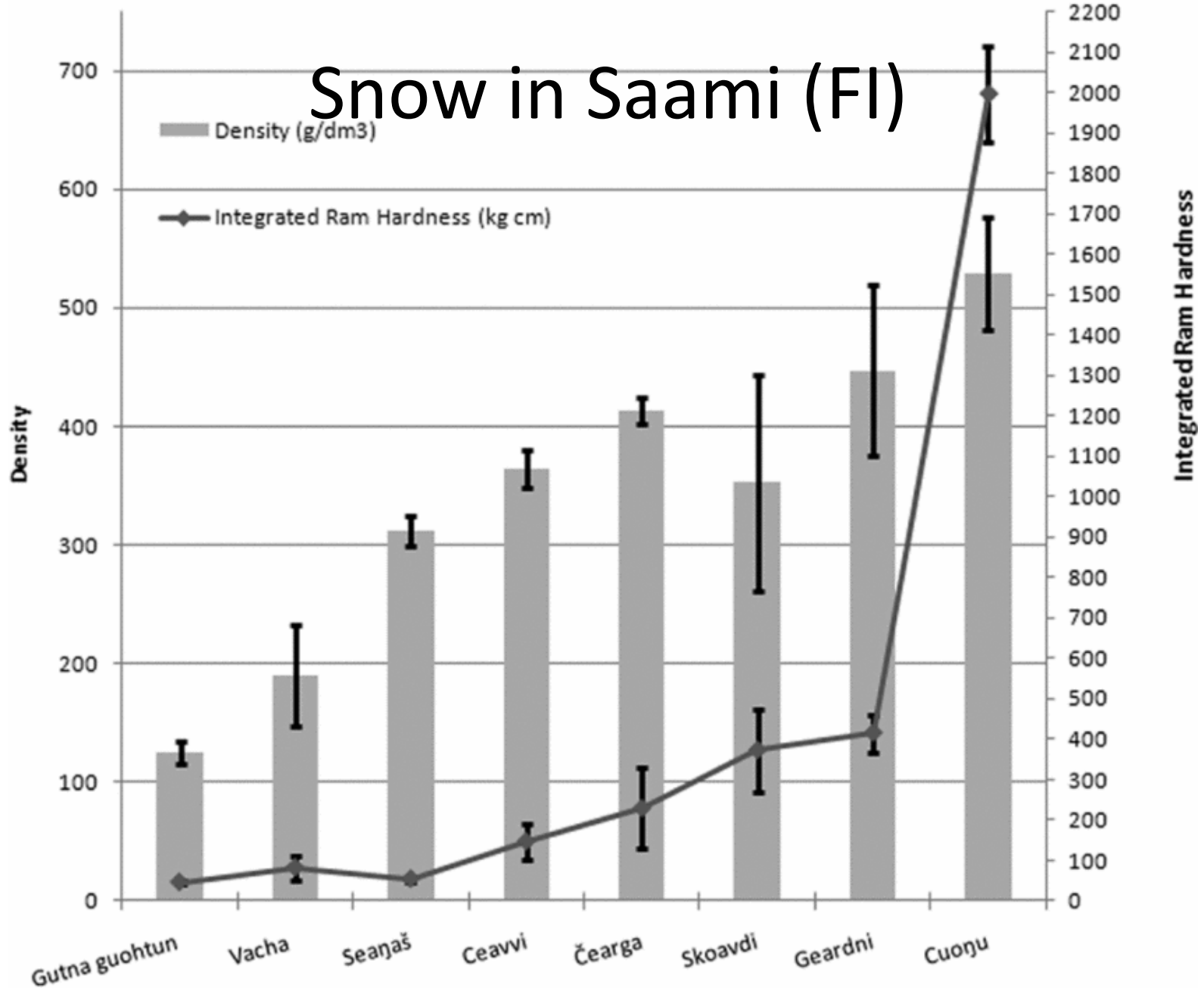
Attachments



Metadata = existing

1. Background
2. Metadata
3. FabML Proposal

Snow in Saami (FI)



From: Magga, O. H. (2006), Diversity in Saami terminology for reindeer, snow, and ice. International Social Science Journal, 58: 25–34. doi: 10.1111/j.1468-2451.2006.00594.x

COSTA C
COSTA RICA. R

023

COTTON, JCS
COTTON -- SS (SUBJ)

04035

COUNCIL OF PLANNING
LIBRAR. EX. BIBL. 599

04047

COSTA RICA. S
COSTA RICA - Q

04024

COTTON GROWING (L) SUBJ

04036

COUNCIL OF PLANNING
LIBRAR. EX. BIBL. 600
COUNCIL OF STATE GOVT (R)

04048

COSTA RICA. - R
COSTER, B

04025

COTTON GROWING (M) SUBJ
COTTON GROWING AND L

04037

COUNCIL OF STATE GOVT (S)
COUNCIL ON F

04049

Dublin Core

- 1. Title
- 2. Creator
- 3. Subject
- 4. Description
- 5. Publisher
- 6. Contributor
- 7. Date
- 8. Type
- 9. Format
- 10. Identifier
- 11. Source
- 12. Language
- 13. Relation
- 14. Coverage
- 15. Rights



CREATING



HOME

PROJECTEN

ONDERZOEKSLIJNEN

PUBLICATIES

Peter Troxler



image

Lector, de revolutie van de maakindustrie

Peter onderzoekt de impact van nieuwe, directe digitale productie technologieën en methoden (zoals Fab Labs en 3D printen) op ontwerpen en produceren, en draagt de resultaten van het onderzoek over op de stad Rotterdam en de samenleving.

research

<http://creating010.com/medewerkers/peter-troxler/>

project

<http://creating010.com/projecten/citylab-sensor-lab-open-data-lab-fablab/>

Gerelateerde projecten

Stadslab: Sensor lab, Open Data lab & Fablab

Onderzoekslijn

Revolutie van de Maakindustrie

<http://creating010.com/onderzoek/revolutie-van-de-maakindustrie/>

Community

3D Printer — Symbool van de Revolutie van de Maakindustrie

Internet of Things Days Rotterdam 2013, 9 – 12 april

Stadslab, zeg maar DOEN!

Gerelateerde publicaties

(English) Making the Third Industrial Revolution – The Struggle for Polycentric Structures and a New Peer-Production Commons in the FabLab Community

...

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creating010.com/medewerkers/peter-  
troxler/">
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<contact:Person rdf:research="http://  
creating010.com/onderzoek/revolutie-van-de-  
maakindustrie/">
```

...

```
</contact:Person>
```

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Vocabulary 1: dc

Dublin Core

1. Title
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- **Title**
- **Author**
- **Image**
- **Description**

Vocabulary 2: fab

- PSL
Process Specification
Language (NIST)
- STEP
STandard for the
Exchange of Product
model data (ISO 10303)
- ...
- **Materials**
- **Processes**
- **Machines**
- **Settings**

Vocabulary 3: IANA

IANA

Media Types

- text
- image
- audio
- video
- application
application/PostScript

- **Design / Production Files**



Hogeschool Rotterdam
 Rotterdam, The Netherlands

Contacts
 stadslab@hr.nl

Websites
www.stadslabrotterdam.nl/

div.leaflet-popup.leaflet-zoom-animated 317px x 250px

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  <div class="leaflet-popup leaflet-zoom-animated" style="opacity: 1; -webkit-transform: translate3d(637px, 446px, 0); bottom: 14px; left: -159px;">
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    <div class="leaflet-popup-content-wrapper">
      <div class="leaflet-popup-content" style="width: 275px;">
        <h2>Hogeschool Rotterdam</h2>
        "
        Rotterdam, The Netherlands
        "
        <hr>
        <h4>Contacts</h4>
        <ul>
          <li>
            <span class="line"> </span>
            <span class="email">
              <a href="mailto:stadslab@hr.nl">stadslab@hr.nl</a>
            </span>
            <span class="phone"></span>
          </li>
        </ul>
      </div>
    </div>
  </div>

```

Computed Style Show inherited

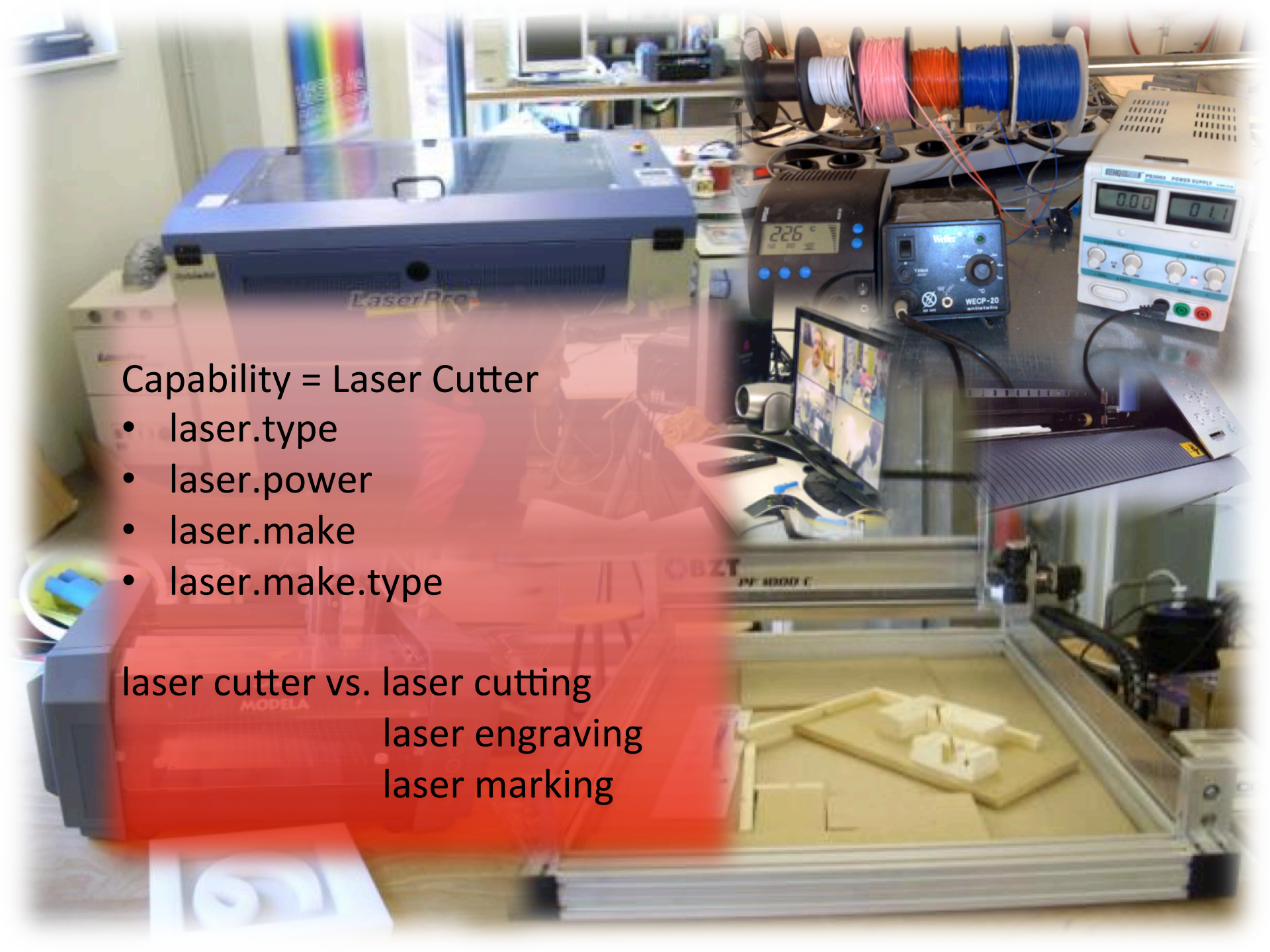
Styles +

Metrics

Properties

DOM Breakpoints

Event Listeners



Capability = Laser Cutter

- laser.type
- laser.power
- laser.make
- laser.make.type

laser cutter vs. laser cutting
laser engraving
laser marking

