

**Oslo  
Living  
Lab**

# **handbook**

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**for making light installations**



**This little handbook is made for you who want to explore how to build light installations.**

**Use the handbook as a tool for guidance in the process!**

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# Background

This handbook is made as a part of a four weeks student project at the Oslo School of Architecture and Design.

The project is a collaboration with Oslo Living Lab, Hersleb High School and Nabolags-hager, which also is part of the innovation project “PlaceCity, placemaking for sustainable, thriving cities” that this project intervention also contributes to.

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fall 2019.



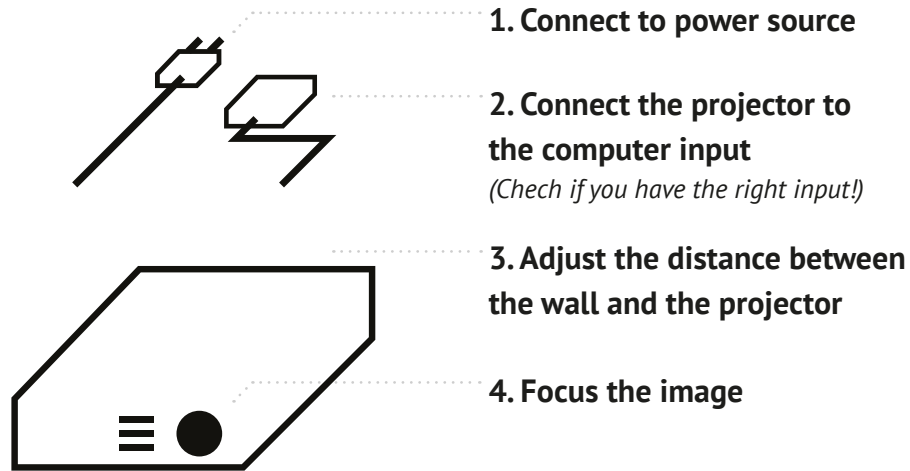
# Introduction

A projector is a simple and often accessible technology that is flexible in use. To project on, for example, a wall or on fabric, is a relatively low threshold, but also very effective. A projector is also possible easy to transport, can be used both inside and outside, and set up and taken down quickly.



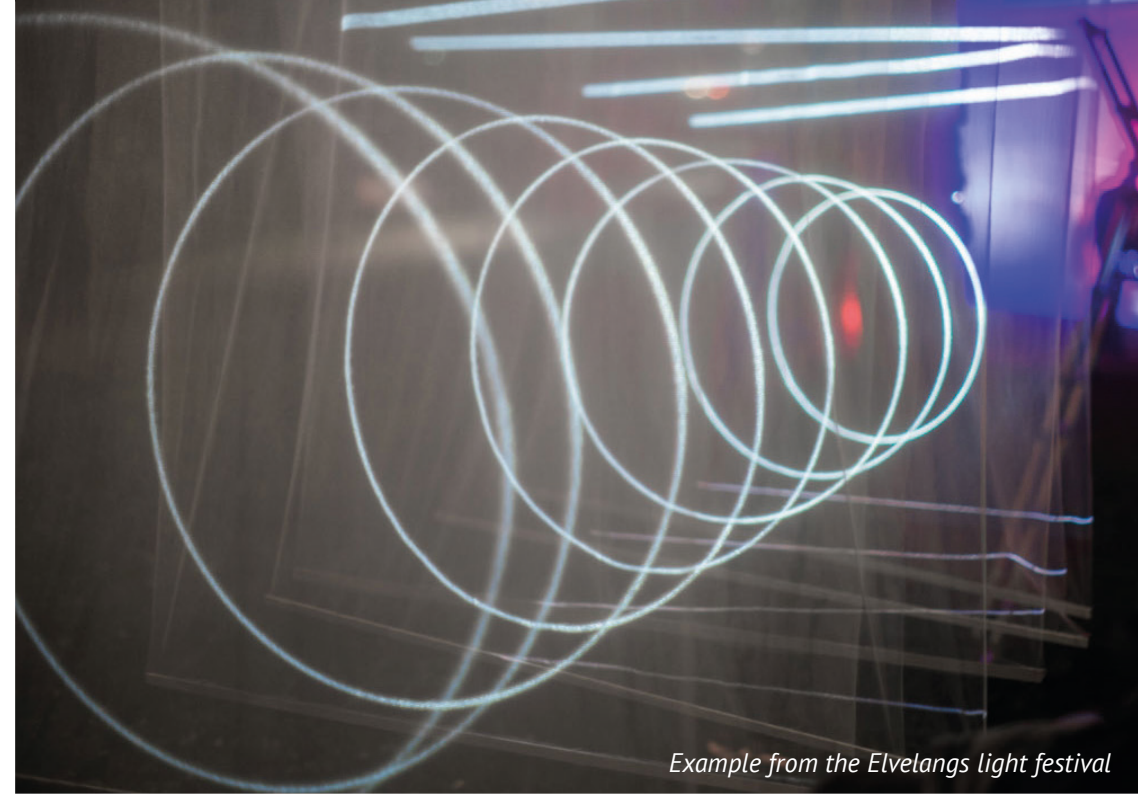
# Using a projector

## How to use a projector



## What can you project?

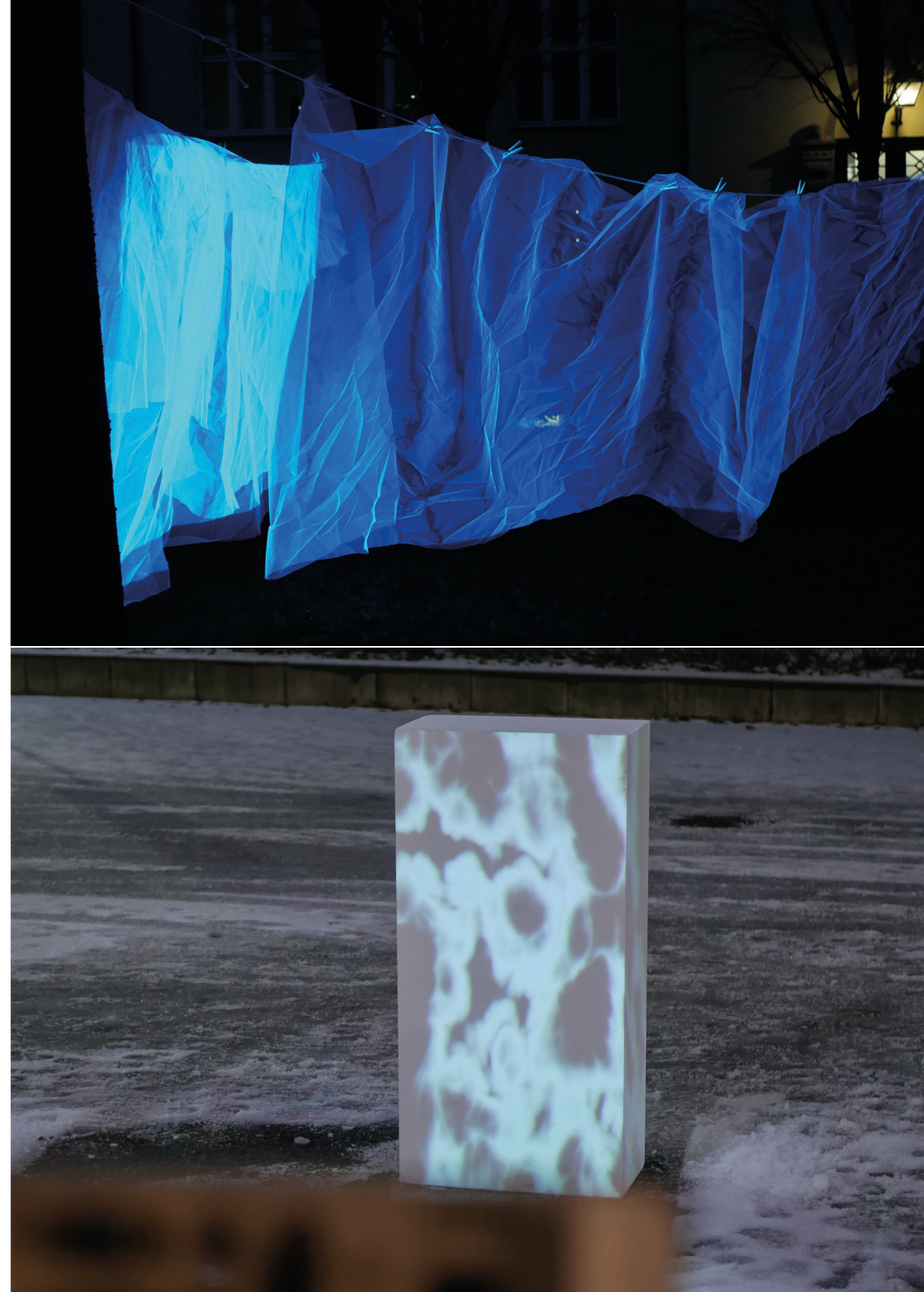
With a projector you can show movies, text, pictures, animations and other visuals, and you can also put these together to form one single installation. The content can be customized to fit different situations and events, for example christmas markets, open day at school or green inspiration nights.



# Creating projection spaces

There are many ways to create spaces to project on. You can build your own structures, or project on to existing ones. A good example of a material that is easy to use, is tulle, which can easily be mounted with ropes. Tulle is a transparent material which makes it possible to project through, and you can build multiple layers, curl it and cut it to create different effects. By layering the tulle, you can create spaces for spectators to walk through, for example a tunnel, or a roof.

You could also project on existing structures, like walls, windows, benches and so on, to create interesting effects in your environment. In the image on the right, you can see an example of projection mapping on a piece of styrofoam.





**Creating content**



# Video

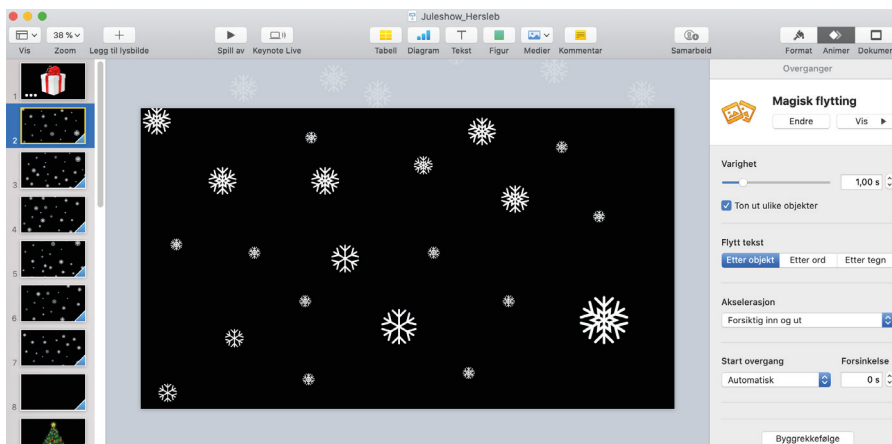
Remember..

- Some online videos are copyrighted.
- Start early with onsite testing.
- It's nice to have different content to change between at the event.

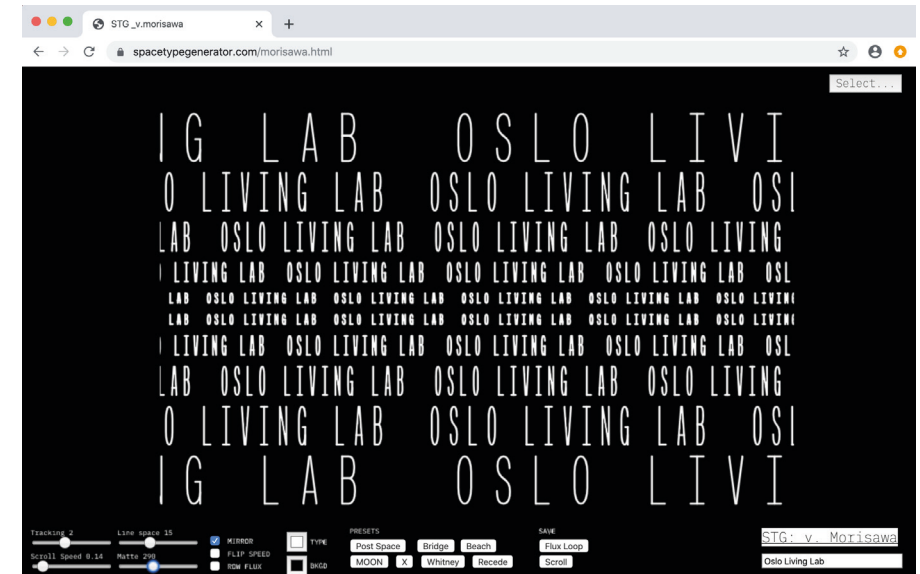
**YouTube** and **Vimeo** can be sources for content, as long as you have an available internet connection. Just remember to not project any copyrighted material!

**iMovie** (Mac) og **Microsoft Picture Manager** (Windows) or similar free movie editing software is easy to learn, so that you can cut and edit movies, text and pictures.

**Keynote** (Mac) or **PowerPoint** (Windows) are presentation tools which you can use to create simple illustrations.



**Spacetypegenerator.com** is a free website where you can make text animation. The website has a lot of options for playing with text, symbols, colors, animation effects and more. The animation you create can be exported as a GIF.



**Map Map** is a free program for 3D mapping. With the program you can map out a room, and choose to project on chosen objects or surfaces. It's easy to find similar programs and tutorials online if you want to explore this further.



## Goals & planning

## What do we want to achieve?

It's important to keep in mind early on what the goal of the installation is. The installation can for example encourage activity or movement, such as jumping, dancing, taking a selfie. It can also be informative or send a message. The installation can also be decorative, and create a more abstract art experience. Keep in mind **where**, **when**, and to **whom** the installation will be shown.



# Planning ahead

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Take enough copies or prints so that each participant gets one sheet each.

<b>Format</b>	Workshop
<b>Goal</b>	Planning the installation
<b>Time</b>	40 minutes
<b>You need</b>	Pen, post-its and A4-sheets.

Name: .....

Date: ..... / ..... / .....

## Intro (5mins)

The workshop facilitator introduces the event

Here are some points that can be good to start with:

- *where* and *when* is the event?
- *what* is the theme?
- *who* is the event for?

## Setting goals (15mins)

1. Describe or draw the experience you want to create on a post-it note. You can also draw an emoji that you think suits the experience well.



2. Stick the post-it notes to the wall and try to sort them together.

Is something appearing several times? Discuss what is the most important to you, and what the goal of your installation is.

3. Write down the goals you figured out in the exercise:

Goal 1 .....

Goal 2 .....

Goal 3 .....

## Idea generation (20mins)

1. Make a list together of all the types of content you would like to show or use in your installation.

2. Draw at least one idea for the installation on a A4-sheet. This does not have to be a "pretty" drawing! Stick figures are just fine.

3. Show your ideas to the other participants. Discuss together which ideas you like the most, and why.

## Planning (10mins)

1. Plan together what you need to do.

Things to remember:

- at what location will the installation be most effectful?
- where will people stand or pass by?
- how dark will it be?
- if it's too bright outside, could you make a dark room?

2. Agree on who does what both before, during and after the event!

Good luck!



# Reflections

# Post event reflections

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Take enough copies or prints so that each participant gets one sheet each.

<b>Format</b>	Workshop
<b>Goal</b>	Reflect over event/installation
<b>Time</b>	30 minutes
<b>You need</b>	Something to write with

Name: .....

Date: .....

# Thoughts (10mins)

What immediate thoughts do you have about the installation?

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# Evaluation (20mins)

**1. Discuss together.** What about the installation worked well, and what could have worked better?

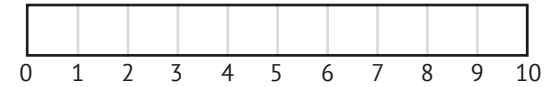
**2. Fill in the table together.**

What did not work?	How can you improve this?

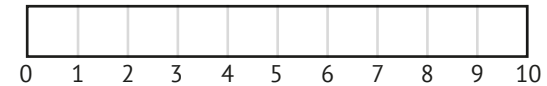
**3. On a scale from 1 to 10, how was the goals achieved?**

Color the graphs according to this.

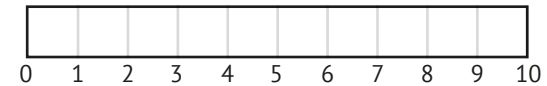
**Goal 1** .....



**Goal 2** .....



**Goal 3** .....



**4. Do you have any thoughts on what things you can do differently with the next installation and event?**

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**Well done!**



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