## FACHHOCHSCHULE LUZERN HSLU

# STUDIENGANG DIGITAL IDEATION, BACHELOR 4. SEMESTER

# TBD

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#### 1 Abstract

TBD

#### 2 TensorFlow.js

As of April 2018 Google released a new JavaScript Machine Learning (ML) library called Tensorflow.js. Tensorflow.js is build on deeplearn.js and can be used for a broad variety of ML tasks. The library allows to train and run models in the webbrowser. Models can be pre-trained on a server or offline computer and then be used on the website.

#### 3 Goal

The goal of this work is to generate maps for games. Maps from "Super Mario" or "Super Meat Boy" contain mostly solid or empty blocks. With that knowledge, the levels can probably be represented in an easy to read text format instead of an image format. The text can probably be feed into an ML system and new maps can be generated with the assistance of a ML model.

#### 4 Referenzen und Akronyme

### Glossary

**Tensorflow.js** The Tensorflow software released as a JavaScript library for websites and webapplications 2

## Acronyms

ML Machine Learning. 2