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STUDIENGANG DIGITAL IDEATION, BACHELOR  
4. SEMESTER

**TBD**

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## 1 Abstract

## 2 AI, Machinelearning, Deeplearning

bibla [1] TODO: research definitions

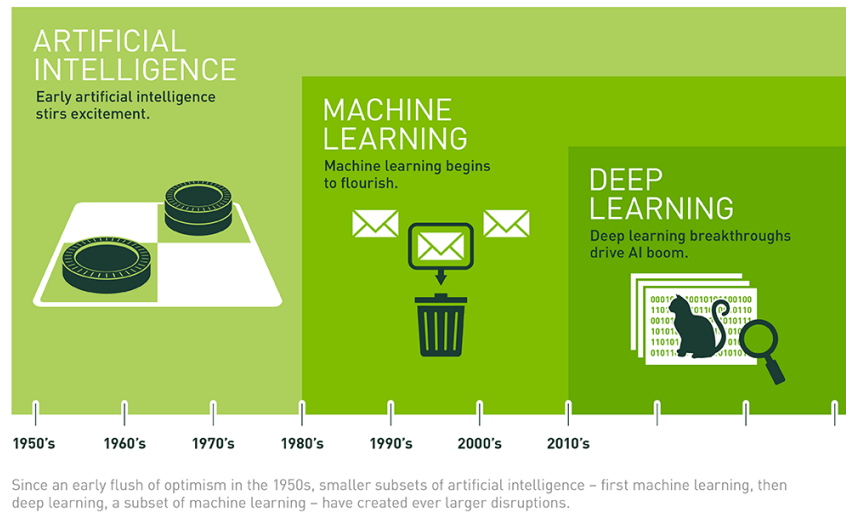


Figure 1: Levels of AI as Image. [1]

## 3 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.

## 4 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.

## 5 examples

We can Cite [2], [3], [4], [5], [6], [2] etc. If we want to have terms and shortcuts we can introduce them once: [Long Glossary Entry](#) and [Open Source Software \(OSS\)](#). If we refer to [Long Glossary Entry](#) and [OSS](#) later it will only use the short version.

## 6 Examples

## 7 Examples of Images

Images are possible aswell:

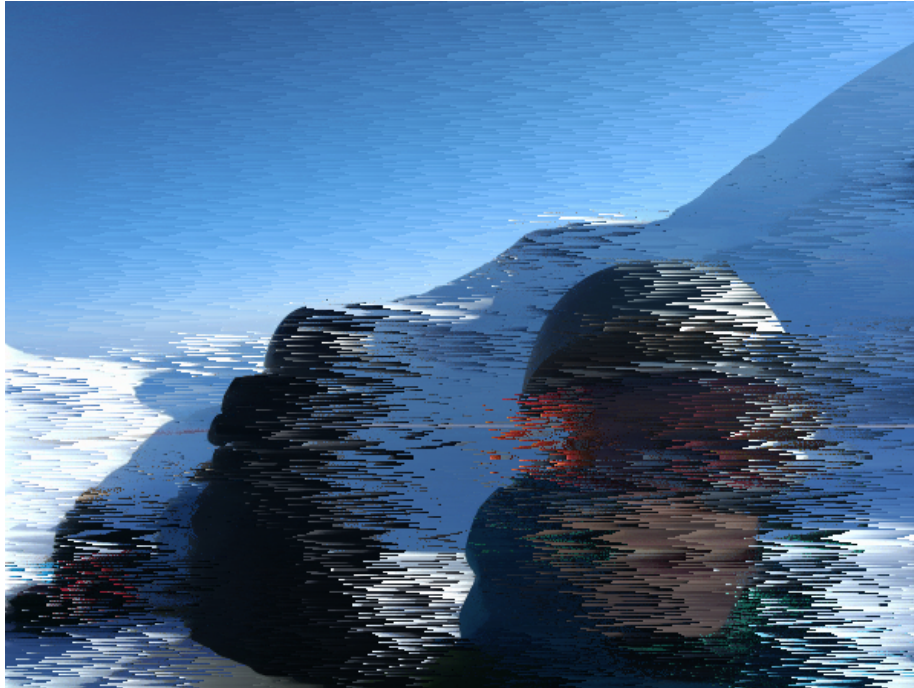


Figure 2: Thats me. Source: <https://thecell.eu/>

and even multiple images are possible

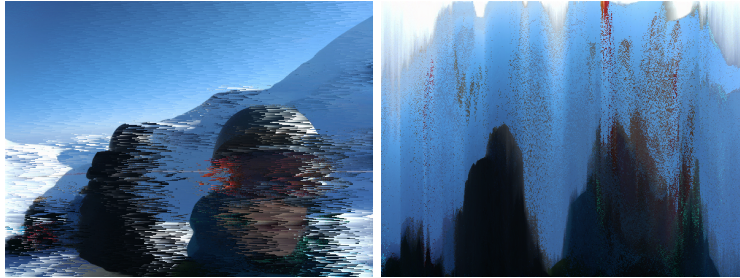


Figure 3: multiple images as an example

Figure 4: if needed to reference separate it's possible like this

## 8 Script code

A simple codeblock is possible take a look at this:

---

```
<script>  
let aVar = "this is a JavaScript variable";  
console.log(aVar);  
</script>
```

---

## 9 Tables etc.

**Lists** can be made as following:

- List an item once
- or twice
- just add more if needed
- sublists are possible aswell:
  - List an item once
  - or twice
  - just add more if needed

If you are looking for tables, here it is:

	1	2	3	4	5	6
Dota 2	31 min	H	++	Z	<40\$	Kosmetisch
PoE	$\infty$	H	++	Z	<\$440	Shoppunkte
The Witcher 3	48.5h	H & C		Z	\$24	AddOn

Table 1: Statistik Spiellänge wurde erfasst von <https://howlongtobeat.com> und <http://steamspy.com/>.

## 10 Referenzen und Akronyme

### Glossary

**Long Glossary Entry** Here is the description of a long entry [3](#)

**Tensorflow.js** The Tensorflow software released as a JavaScript library for websites and webapplications [2](#)

### Acronyms

**ML** Machine Learning. [2](#)

**OSS** Open Source Software. [3](#)

## References

- [1] Michael Copeland. The Difference Between AI, Machine Learning, and Deep Learning? — NVIDIA Blog, 2016.
- [2] Wikipedia. Scripting language, 2014.
- [3] Netta Iivari, Henrik Hedberg, and Tanja Kirves. *Usability in Company Open Source Software Context - Initial Findings from an Empirical Case Study*, pages 359–365. Springer US, Boston, MA, 2008.
- [4] Mohammad AlMarzouq, Li Zheng, Guang Rong, and Varun Grover. Open source: Concepts, benefits, and challenges. *Communications of the Association for Information Systems*, 16(1):37, 2005.
- [5] Heise Online. Aus für LiMux münchen stadtrat sagt zum pinguin leise servus, 2017.
- [6] Nikos Viorres, Papadopoulos Xenofon, Modestos Stavarakis, Evangelos Vlachogiannis, Panayiotis Koutsabasis, and John Darzentas. Major hci challenges for open source software adoption and development. In *International Conference on Online Communities and Social Computing*, pages 455–464. Springer, 2007.

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