

# Mechanical Roadmap v1.0.1

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## 1 What is Mechanical?

Mechanical is a toolkit for the rapid prototyping of common types of generative machine learning projects. It is not intended to replace the full TensorFlow library, but rather to serve as a more approachable entry point to the sorts of projects that are possible with TensorFlow.

## 2 Goals

- Make machine learning projects more approachable
- Create a simple yet highly configurable tool for rapid prototyping of machine learning projects
- Learn more about TensorFlow in the process of building the Mechanical toolkit

### 2.1 Long Term Goals

- Eventually implement a web front end using Flask and React in order to better learn those frameworks

## 3 Development Milestones

### 3.1 v0.1: Text Generation

Projected release: October 17 2020

- Implement and adapt the text generation model I implemented in my project Pynk Floyd
- All functionality and model parameters adjusted via `textgen.config.py`
- Currently the toolkit is utilized by importing it into a separate script file. This will be a temporary measure until a CLI is implemented for v0.2

### **3.2 v0.2: Command Line Interface**

Projected release: TBD following release of v0.1

- Implement command line interface for toolkit
- Allow for user-provided custom configuration files

### **3.3 More features TBD**