

Scorcher: Democratizing AI/ML for Precision Oncology

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The Problem

AI/ML in oncology is fragmented, slowing discovery
and limiting how quickly innovations reach patients

The Solution

- A shared consortium approach to AI/ML
development, documentation, and dissemination
- Address barriers with open-source software,
training resources, and community support
- Make AI/ML easier to use, well-documented, and
connected to programming languages people use

The Plan

- Unite a team of operational leaders, clinical
investigators, and education experts for a pilot
- Iteratively refine scorcher based on feedback and
an institutional needs assessment
- Scale its impact by developing a workshop, short
course, and online community
- Empower researchers to integrate into their work
- Establish infrastructure and culture needed to
drive innovation in precision oncology

Scorcher lets you *develop*
models in plain, sequential
steps, *focusing on what* the
model should do, *not how* to
write code for it

Plain Language:

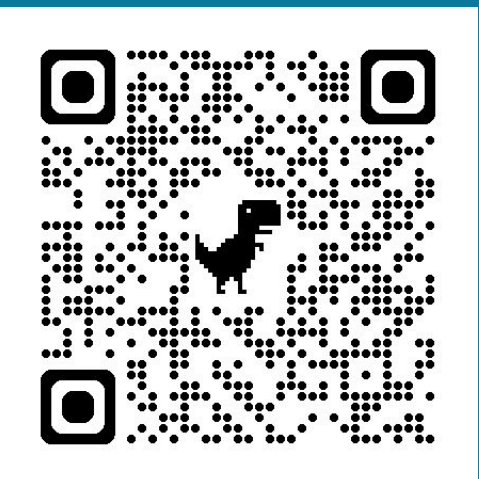
Load the data then
add layers then
compile the model then
fit the model

Scorcher:

```
scorch_dataloader() |>  
scorch_layer()       |>  
compile_scorch()    |>  
fit_scorch()
```

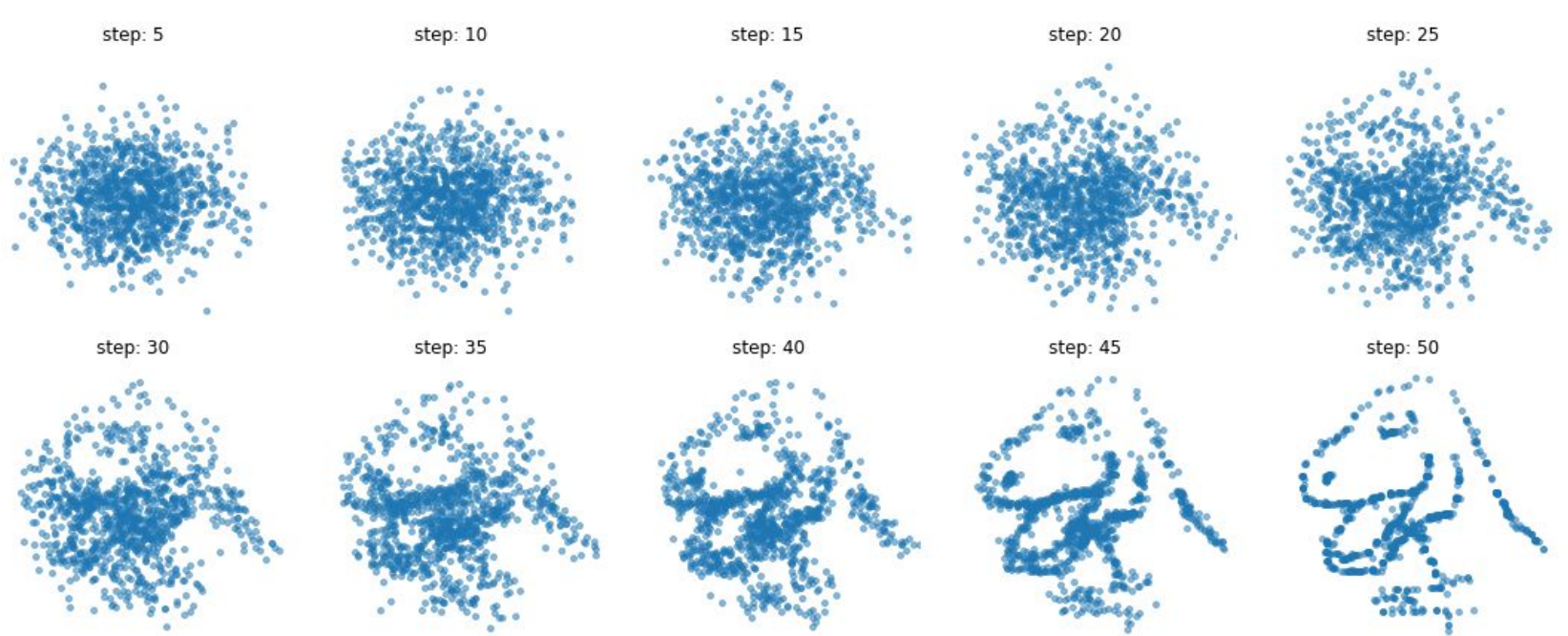


Please Scan to
Learn More →

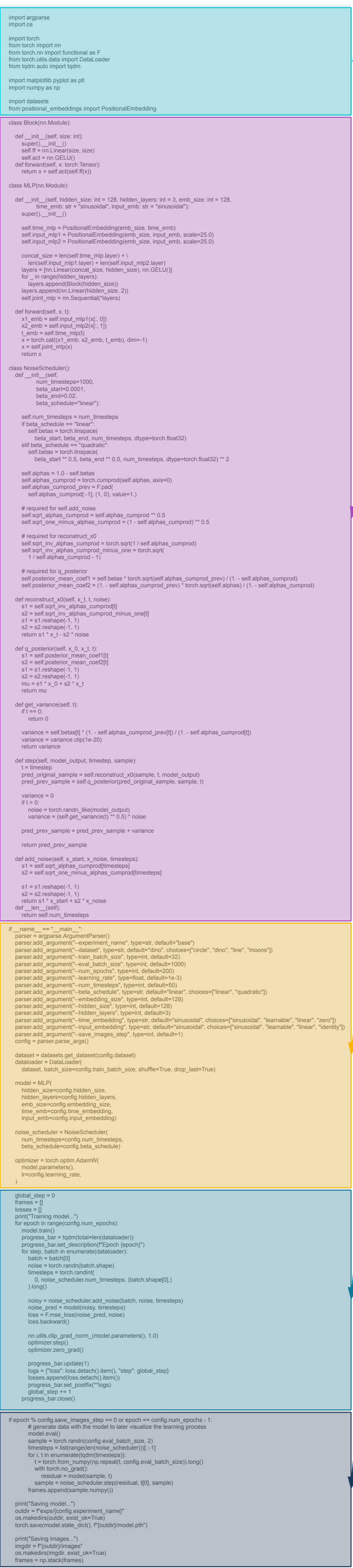


An Example Task

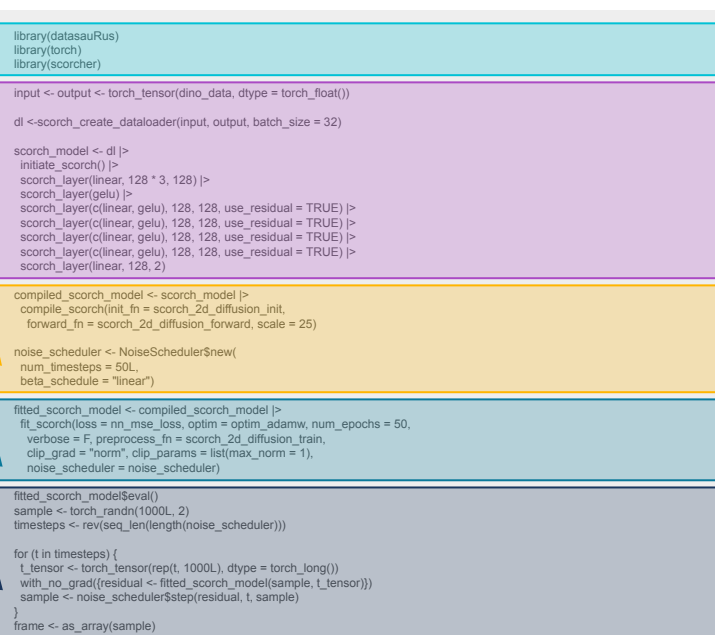
Generate a dinosaur image from noise
(example of a diffusion model)



Python



Scorcher



Scorcher
reproduces
Python's
model with
roughly

**85% less
code!**

Dependencies

Architecture

Compilation

Training

Evaluation