# Paper summary: Contrastive unsupervised representations for reinforcement learning (CURL)

May 19, 2022

# 1 Idea in few sentances

# 2 Explanation of the central concept

# 3 Methodology

# 4 Initial rambly notes

## 4.1 Abstract

CURL extracts high-level features from raw pixels by using contrastive learning and performs off-policy control on top of the extracted features. It works well.

## 4.2 Introduction

To make image-based RL more efficient, people tried:

1. do auxiliary tasks on observations

2. learn world models that predict the future

CuRL is in the first camp of methods.

## 4.3 Method

## 4.4 Other stuff