Intrinsically Motivated Processes (IMP)

Knowledge-based IMP

No concept of goals

Count-Based (Bellemare et al., 2016)

VIME (Houthooft et al., 2017)

RND (Burda et al., 2018)

Disagreement (Pathak et al., 2019)

RIDE (Raileanu & Rocktäschel, 2020) Competence-based IMP aka
Intrinsically Motivated Goal Exploration Processes (IMGEP)

Goals are generated internally by the agent

POP-IMGEP

SAGG-RIAC (Baranes & Oudeyer, 2013)

Map-Elites (Mouret & Clune, 2015)

Modular-IMGEP (Forestier et. al., 2016)

Goal-Conditioned RL Agents

RL-IMGEP aka Autotelic RL

RIG (Nair et al., 2018)

DISCERN (Warde-Farley et al., 2018)

> CURIOUS (Colas et al., 2019)

IMAGINE (Colas et al., 2020c)

RL-EMGEP

Goals come from the env.

UFVA (Schaul et al., 2015)

HER (Andrychowicz et al., 2017)

AGILE (Bahdanau et al., 2018)