Ideas

[**https://github.com/openai/gym/tree/master/gym/envs/classic\_control**](https://github.com/openai/gym/tree/master/gym/envs/classic_control)

[**https://gymnasium.farama.org/environments/toy\_text/taxi/**](https://gymnasium.farama.org/environments/toy_text/taxi/)

[**https://gymnasium.farama.org/environments/toy\_text/frozen\_lake/**](https://gymnasium.farama.org/environments/toy_text/frozen_lake/)

**Freeway: Get to the opposite side by avoiding road obstacles**

**Actions: Movement by one space – up, down**

**Positive reward: Successfully reach the other side; Possible points for each**  **level the individual passes**

**Negative reward: Hit by obstacle**

[Freeway - Gymnasium Documentation (farama.org)](https://gymnasium.farama.org/environments/atari/freeway/)

* + - **Asteroids: Use spaceship to destroy asteroids and avoid getting hit**

**Actions: Movement by one space – several variations of the game (some**  **only allow left/right movement, others allow up/down and left/right**  **movement); Shooting – several variations (some only allow straight**  **shooting, others allow left aim, right aim, etc.)**

**Positive reward: Destroying an asteroid**

**Negative reward: Getting hit by an asteroid**

[Asteroids - Gymnasium Documentation (farama.org)](https://gymnasium.farama.org/environments/atari/asteroids/)

* **Taxi: Use a vehicle to drive to the location of a passenger and drop them off at a designated location**

**Actions: Movement by one space – up, down, left, right; picking up**  **passenger; dropping off passenger**

**Positive reward: Successful pickup or drop-off**

**Negative reward: Unsuccessful pickup or drop-off**

[Taxi - Gymnasium Documentation (farama.org)](https://gymnasium.farama.org/environments/toy_text/taxi/)

* **Skiing: Ski through all gates in the fastest time and avoid obstacles**

**Actions: Movement by one space – left/right**

**Positive Reward: Finishing race without hitting obstacles or missing gates**

**Negative Reward: Missing gate, hitting obstacle**

[Skiing - Gymnasium Documentation (farama.org)](https://gymnasium.farama.org/environments/atari/skiing/)

* **Snake:** [**https://pypi.org/project/snake-gym/#description**](https://pypi.org/project/snake-gym/#description)