of the corresponding **Observation Space** (`Box(4,)`) and **Action Space** (`Discrete(2)`).

| | | | |
|---|---|---|---|
| CartPole-v0 | Box(4,) | Discrete(2) | (-inf, inf) |

As described in the OpenAI Gym documentation,

> *Every environment comes with first-class `Space` objects that describe the valid actions and observations.*
>
> - *The `Discrete` space allows a fixed range of non-negative numbers.*
> - *The `Box` space represents an n-dimensional box, so valid actions or observations will be an array of n numbers.*

## Observation Space

The observation space for the CartPole-v0 environment has type `Box(4,)`. Thus, the observation (or state) at each time point is an array of 4 numbers. You can look up what each of these numbers represents in this document. After opening the page, scroll down to the description of the observation space.

**Observation**

Type: Box(4)

| Num | Observation | Min | Max |
|---|---|---|---|
| 0 | Cart Position | -2.4 | 2.4 |
| 1 | Cart Velocity | -Inf | Inf |
| 2 | Pole Angle | ~ -41.8° | ~ 41.8° |
| 3 | Pole Velocity At Tip | -Inf | Inf |

Notice the minimum (-Inf) and maximum (Inf) values for both **Cart Velocity** and the