UI Automation
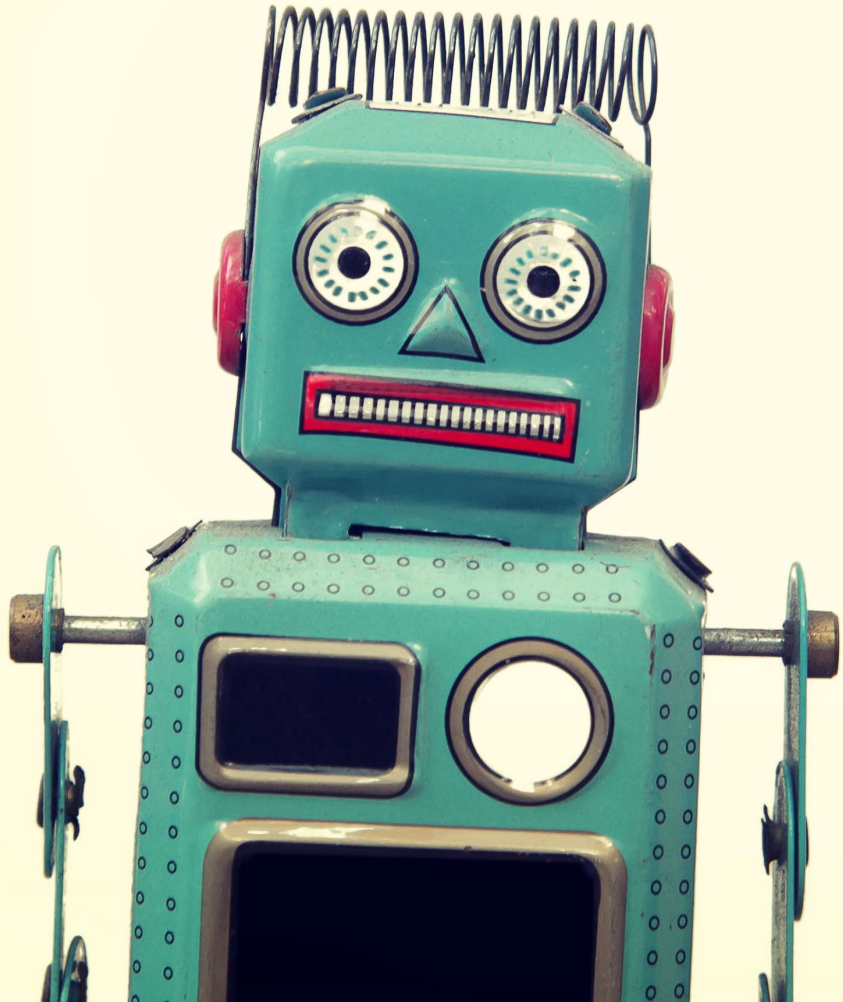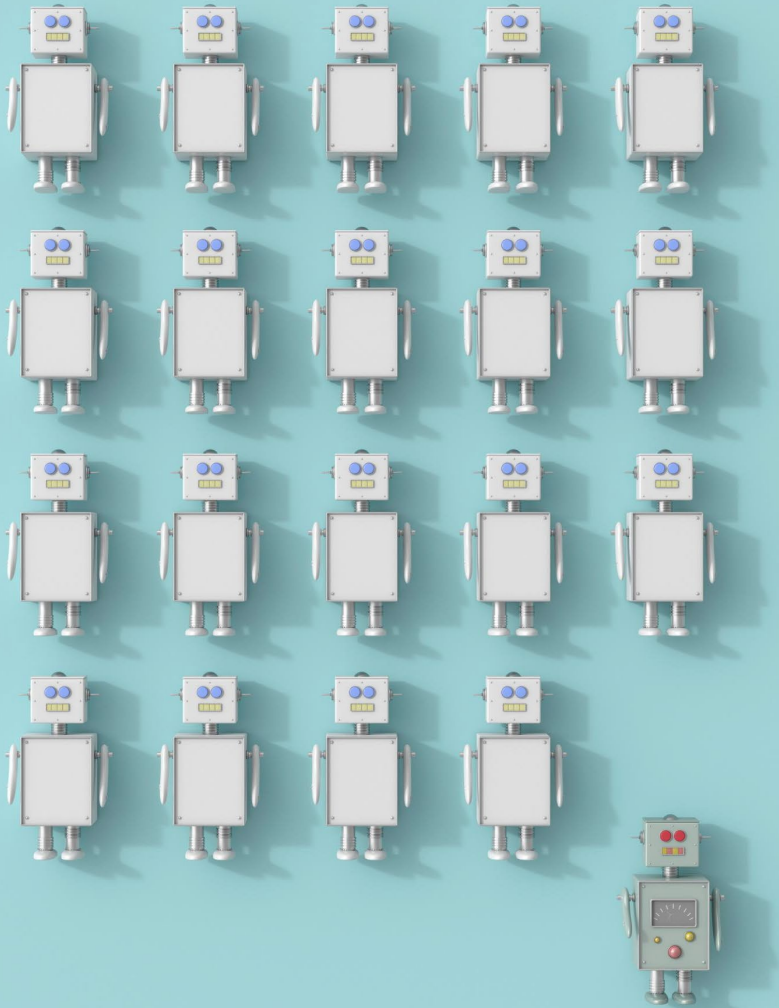
UiPath Academy Module

Letting your automations possess your machine

UI Automation

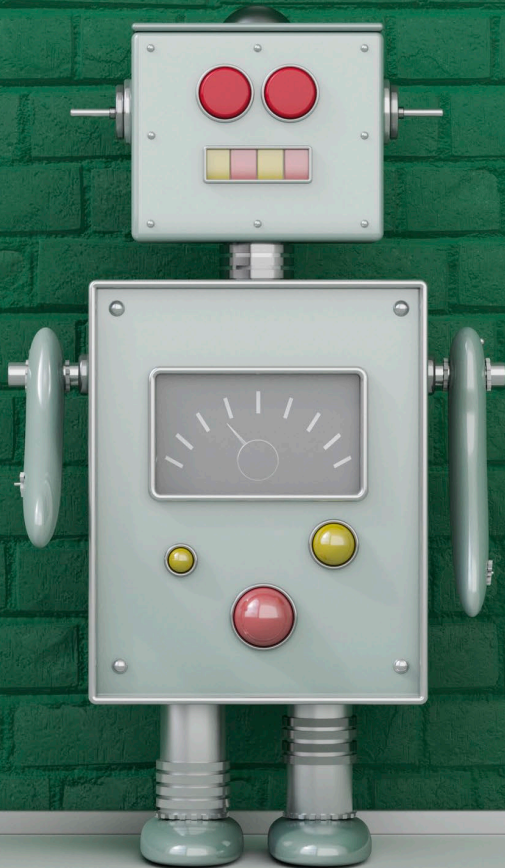UI Automation | UI Automations Activities Pack

- Process of interacting with graphical elements within applications by simulating mouse and keyboard controls

- UI Automation Activities:
  - Containers
    - Setting scope for a specific app or browser
  - Input Activities
  - Output Activities
  - Synchronization Activities
    - Control your process flow based on the states of your UI elements
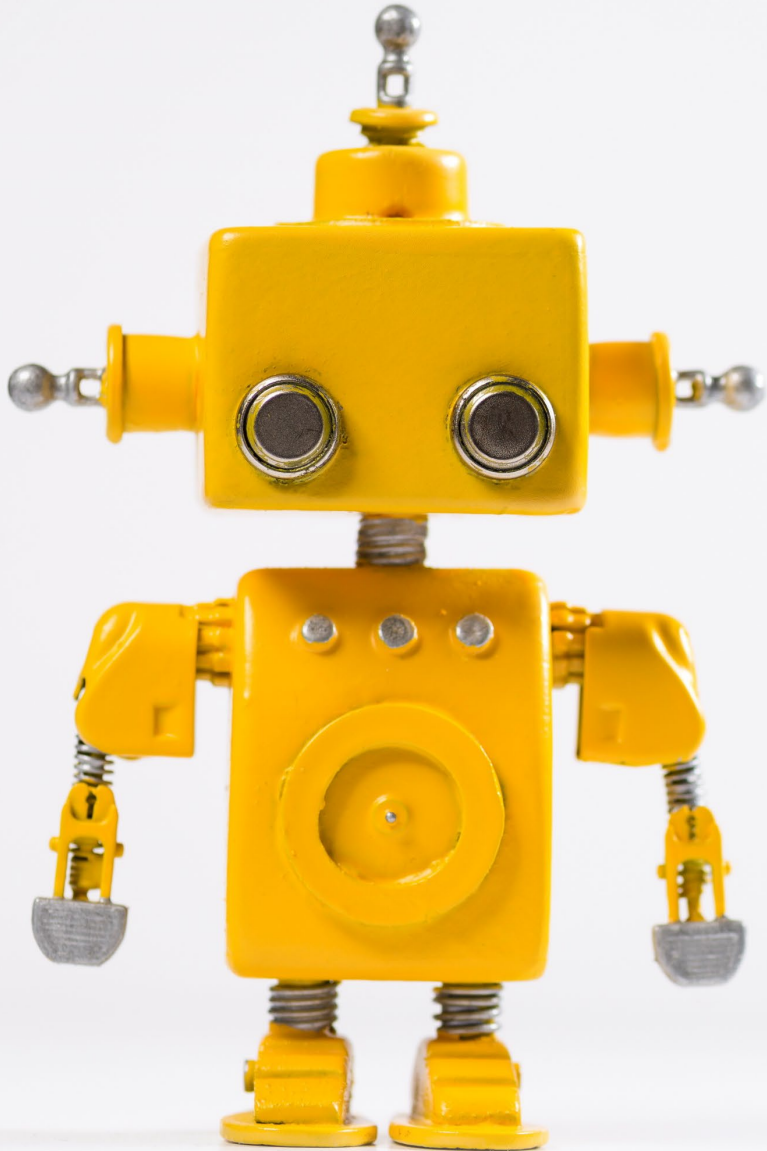
Container

- Open Browser Activity
    - Allows you to set a scope for activities that interact with a webpage
- Attach Browser Activity
    - A container that enables you to attach to an already opened browser and perform multiple actions within it.

Targeting Methods
Selectors | Fuzzy Selectors | Anchor
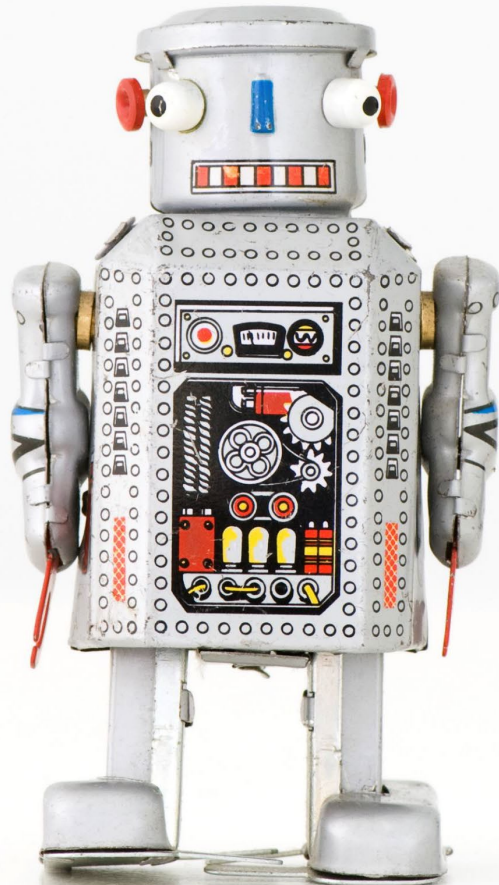
- Provide several ways to identify the UI element the Robot will be interacting with.

- Key Targeting Methods:
    - Selectors
    - Fuzzy Selectors
    - Image
    - Anchor

Input Methods

Input Methods

- *Input actions* require you or the robot to directly interact with an opened application or web page. How UiPath goes about it is defined by your *input methods*

- Hardware Events
  - Does not work in the background
  - simulates a click or type with the help of the hardware driver
  - Default

- Send Window Messages
  - Works in the background.
  - works by sending a specific message directly to the target application

- Simulate
  - Works in the background
  - Studio hooks into the application and triggers the event handler of an indicated UI element
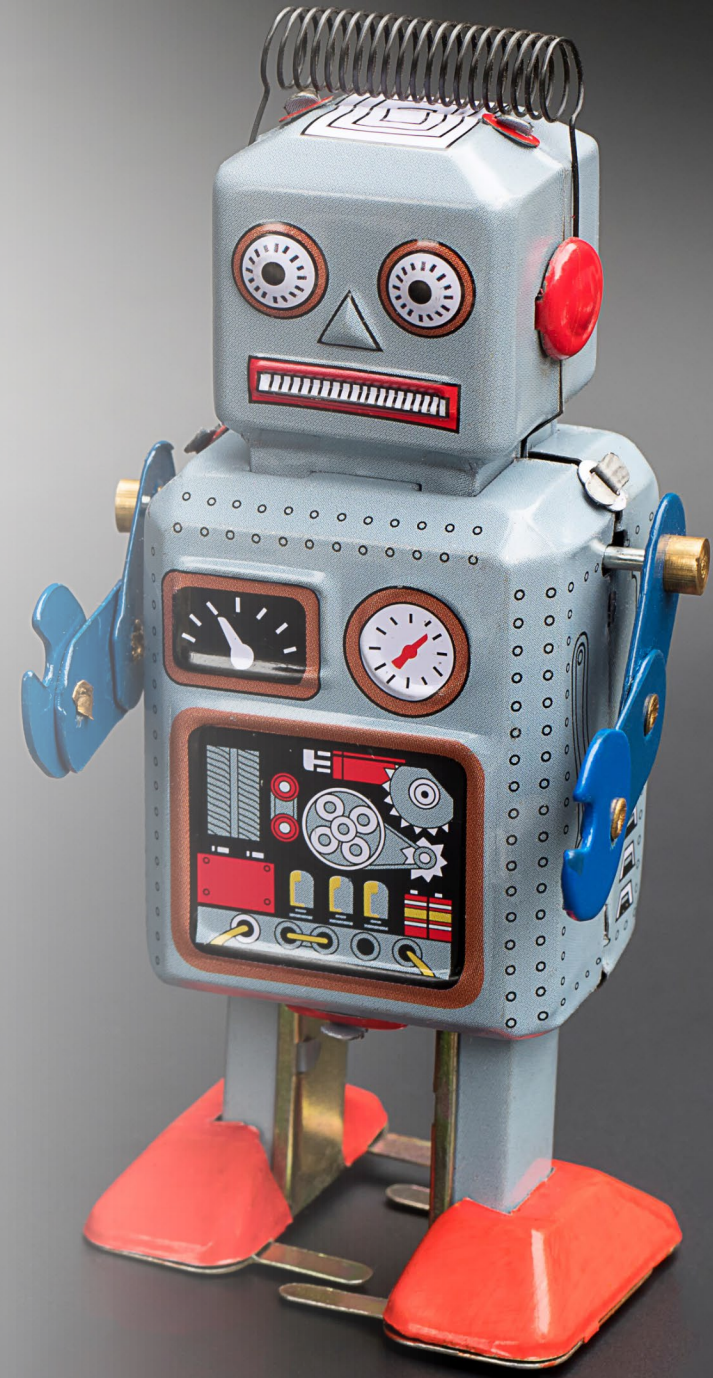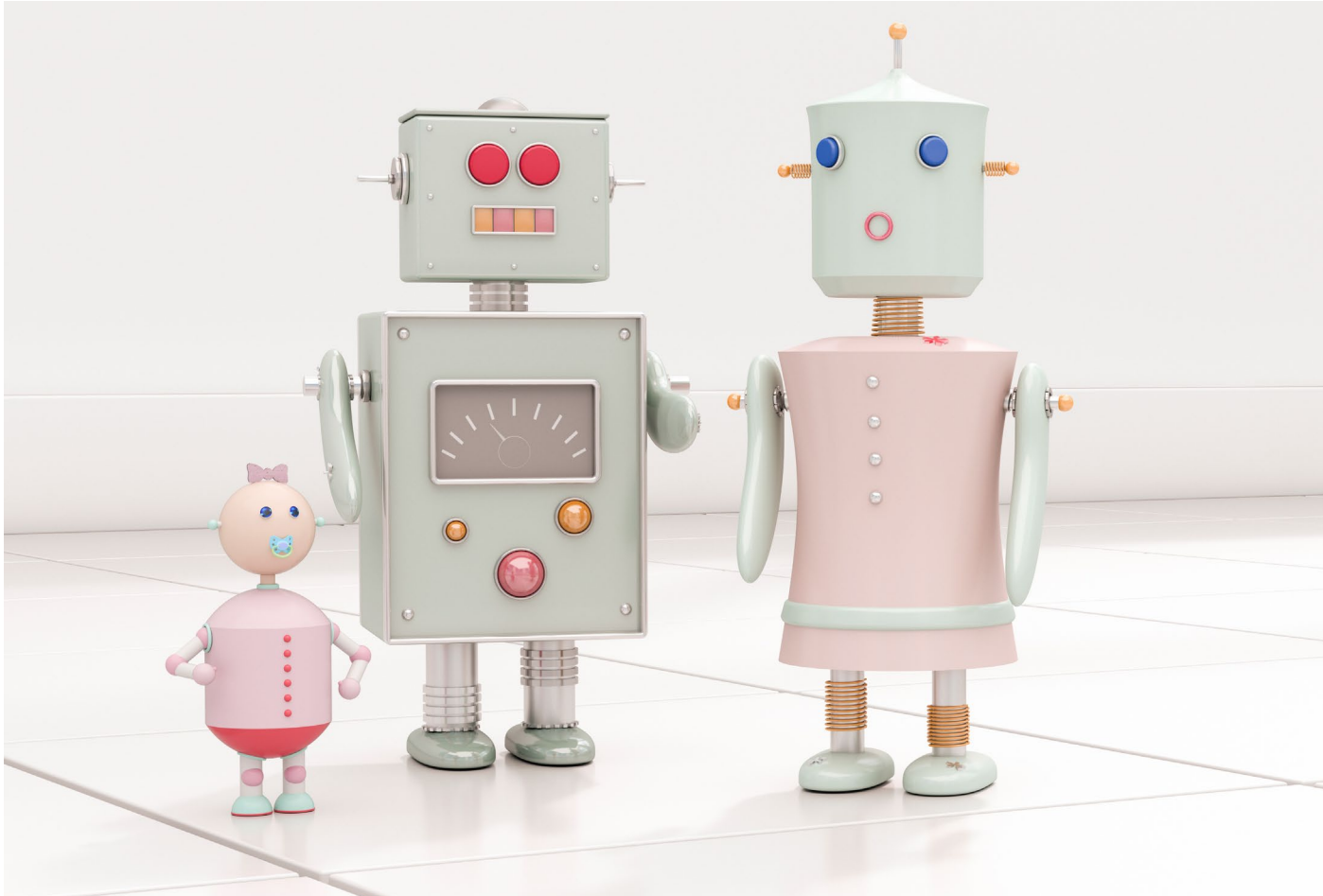
Output Methods

- Output or screen scraping methods refer to those activities that enable you to extract data from a specified UI element or document, such as a .pdf file.

- Full Text
    - default method
    - fast and accurate

- Native
    - only works with apps that are built to render text with the Graphics Device Interface (GDI)
    - extract the screen coordinates of the text

- OCR
    - not 100% accurate but can be useful to extract text that the other two methods could not, as it works with all applications including Citrix

Questions?

Comments? Concerns? Violent Reactions?

Discussion Questions

- What is UI automations?

- What is the difference between the open browser activity and the attach browser activity?

- What is the difference between input activities and input methods?

- What is the fastest output method?