

# Comprehensive Rasa Commands with Examples and Descriptions

## Comprehensive Rasa Commands with Examples and Descriptions

## **\*\*1. Initialize a New Rasa Project\*\***

**Command:** ``rasa init``

- **Description:** Sets up a basic Rasa project with example files and configurations.

- **Example:**

```
```bash
```

```
rasa init
```

```
```
```

## **\*\*2. Train a New Model\*\***

**Command:** ``rasa train``

- **Description:** Trains a machine learning model based on the configuration and data files provided.

- **Example:**

```
```bash
```

```
rasa train
```

```
```
```

**Command:** ``rasa train --domain domain.yml --data data/``

- **Description:** Trains a model using specific domain and data files.

- **Example:**

```
```bash
```

```
rasa train --domain domain.yml --data data/
```

```
```
```

### **\*\*3. Run the Rasa Server\*\***

**Command: `rasa run`**

- **Description:** Starts the Rasa bot with a REST API to handle requests.

- **Example:**

```
```bash
```

```
rasa run
```

```
```
```

**Command: `rasa run --port 5005`**

- **Description:** Starts the server on a custom port.

- **Example:**

```
```bash
```

```
rasa run --port 5005
```

```
```
```

**Command: `rasa run --model models/<model\_file.tar.gz>`**

- **Description:** Runs the server with a specific model file.

- **Example:**

```
```bash
```

```
rasa run --model models/20240101-123456.tar.gz
```

```
```
```

**Command: `rasa run --debug`**

- **Description:** Runs the server in debug mode to show detailed logs.

- **Example:**

```
```bash
```

```
rasa run --debug
```

```
```
```

## **\*\*4. Run Custom Actions Server\*\***

**Command: `rasa run actions`**

- **Description:** Runs the action server for executing custom actions defined in `actions.py`.

- **Example:**

```
```bash
```

```
rasa run actions
```

```
```
```

## **\*\*5. Validate Data\*\***

**Command: `rasa data validate`**

- **Description:** Validates your domain, stories, and NLU data for consistency.

- **Example:**

```
```bash
```

```
rasa data validate
```

```
```
```

**Command: `rasa data validate nlu`**

- **Description:** Validates only the NLU data.

- **Example:**

```
```bash
```

```
rasa data validate nlu
```

```
```
```

**Command: `rasa data validate stories`**

- **Description:** Validates only the stories.

- **Example:**

```
```bash
```

```
rasa data validate stories
```

```
```
```

## **\*\*6. Interactive Learning\*\***

**Command: `rasa interactive`**

- **Description:** Opens an interactive mode to refine your training data.

- **Example:**

```
```bash
```

```
rasa interactive
```

```
```
```

## **\*\*7. Testing\*\***

**Command: `rasa test`**

- **Description:** Tests your bot using stories and generates reports.

- **Example:**

```
```bash
```

```
rasa test
```

```
```
```

**Command: `rasa test nlu`**

- **Description:** Tests only the NLU component of the bot.

- **Example:**

```
```bash
```

```
rasa test nlu
```

```
```
```

## **\*\*8. Shell and Debugging\*\***

**Command: `rasa shell`**

- **Description:** Allows you to interact with the bot in the terminal.

- **Example:**

```
```bash
```

```
rasa shell
```

```
```
```

**Command: `rasa shell nlu`**

- **Description:** Tests specific intents and entities via the NLU pipeline.

- **Example:**

```
```bash
```

```
rasa shell nlu
```

```
...
```

**Command: `rasa run --debug`**

- **Description:** Enables debug mode for detailed logs.

- **Example:**

```
```bash
```

```
rasa run --debug
```

```
...
```

## **\*\*9. Data Conversion and Management\*\***

**Command: `rasa data convert nlu`**

- **Description:** Converts NLU data between markdown and YAML formats.

- **Example:**

```
```bash
```

```
rasa data convert nlu --data data/nlu.md --out data/nlu.yml
```

```
...
```

**Command: `rasa data convert conversations`**

- **Description:** Extracts conversations into stories in YAML format.

- **Example:**

```
```bash
```

```
rasa data convert conversations --format yaml --out data/stories.yml
```

```
...
```

## **\*\*10. Deployment\*\***

**Command: `rasa export`**

- **Description:** Exports conversations or models for deployment.

- **Example:**

```
```bash
```

```
rasa export
```

```
```
```

**Command: `rasa run --host 0.0.0.0`**

- **Description:** Runs the Rasa server on a public host for external access.

- **Example:**

```
```bash
```

```
rasa run --host 0.0.0.0
```

```
```
```

## **\*\*11. Miscellaneous\*\***

**Command: `rasa --version`**

- **Description:** Displays the installed version of Rasa.

- **Example:**

```
```bash
```

```
rasa --version
```

```
```
```

**Command: `rasa --help`**

- **Description:** Displays all available Rasa commands and their usage.

- **Example:**

```
```bash
```

```
rasa --help
```

```
```
```