

# Simulator

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## Overview

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`simulator` is a Python package designed to compare two CSV or Excel files by analyzing their common columns. The package provides a structured comparison and generates analytical insights on the differences between the files.

## Features

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- Compare two CSV or Excel files based on common columns.
- Store the comparison result in the class variable `compared_df`.
- Generate an analysis of the comparison based on:
  - `Percentage_match`
  - `True_counts`
  - `False_counts`
  - `Noise`
  - `Column_size`

## Installation

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```
pip install simulator
```

## Usage

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### Import the package

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```
from simulator import compareData
```

### Compare two CSV/Excel files

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```
# Create an instance of compareData
comparator = compareData('file1.csv', 'file2.csv')

# Access the compared dataframe
print(comparator.compared_df)
```

### Get Comparison Summary

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```
summary = comparator.summary()
print(summary)
```

## Repository

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For more details, visit the GitHub repository: [simulator on GitHub](#)

## License

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This project is licensed under the MIT License.

## Author

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