



# Deepparse : An Extendable, and Fine-Tunable State-Of-The-Art Library for Parsing Multinational Street Addresses

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## Motivations

- Address parsing is essential to many applications, such as geocoding and record linkage.
- Most applications are confined to academic endeavours or with little availability of free and easy-to-use open-source solutions.

## Related work

- Sharma et al. (2018): Parse monolingual address using a feedforward neural network.
- Mokhtari et al. (2019): Parse monolingual address using different RNN architectures.
- OpenVenues (2016): Libpostal Python Library.

## Contributions

- We describe an open-source Python library for multinational address parsing.
  - We describe its implementation details and natural extensibility due to its fine-tuning possibilities.
  - We benchmark it against other open-source libraries.
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