🏠　　Modules　　Retrieval　　Document loaders　　CSV

CSV

> A comma-separated values (CSV) file is a delimited text file that uses a comma to separate values. Each line of the file is a data record. Each record consists of one or more fields, separated by commas.

Load CSV data with a single row per document.

```python
from langchain_community.document_loaders.csv_l
import CSVLoader


loader =
CSVLoader(file_path='./example_data/mlb_teams_2(
data = loader.load()
```

```python
print(data)
```

```
    [Document(page_content='Team:
Nationals\n"Payroll (millions)":
81.34\n"Wins": 98', lookup_str='', metadata=
{'source':
```

```
'./example_data/mlb_teams_2012.csv', 'row':
0}, lookup_index=0),
Document(page_content='Team: Reds\n"Payroll
(millions)": 82.20\n"Wins": 97',
lookup_str='', metadata={'source':
'./example_data/mlb_teams_2012.csv', 'row':
1}, lookup_index=0),
Document(page_content='Team:
Yankees\n"Payroll (millions)":
197.96\n"Wins": 95', lookup_str='', metadata=
{'source':
'./example_data/mlb_teams_2012.csv', 'row':
2}, lookup_index=0),
Document(page_content='Team: Giants\n"Payroll
(millions)": 117.62\n"Wins": 94',
lookup_str='', metadata={'source':
'./example_data/mlb_teams_2012.csv', 'row':
3}, lookup_index=0),
Document(page_content='Team: Braves\n"Payroll
(millions)": 83.31\n"Wins": 94',
lookup_str='', metadata={'source':
'./example_data/mlb_teams_2012.csv', 'row':
4}, lookup_index=0),
Document(page_content='Team:
Athletics\n"Payroll (millions)":
55.37\n"Wins": 94', lookup_str='', metadata=
{'source':
'./example_data/mlb_teams_2012.csv', 'row':
5}, lookup_index=0),
Document(page_content='Team:
Rangers\n"Payroll (millions)":
```

```
120.51\n"Wins": 93', lookup_str='', metadata=
{'source':
'./example_data/mlb_teams_2012.csv', 'row':
6}, lookup_index=0),
Document(page_content='Team:
Orioles\n"Payroll (millions)": 81.43\n"Wins":
93', lookup_str='', metadata={'source':
'./example_data/mlb_teams_2012.csv', 'row':
7}, lookup_index=0),
Document(page_content='Team: Rays\n"Payroll
(millions)": 64.17\n"Wins": 90',
lookup_str='', metadata={'source':
'./example_data/mlb_teams_2012.csv', 'row':
8}, lookup_index=0),
Document(page_content='Team: Angels\n"Payroll
(millions)": 154.49\n"Wins": 89',
lookup_str='', metadata={'source':
'./example_data/mlb_teams_2012.csv', 'row':
9}, lookup_index=0),
Document(page_content='Team: Tigers\n"Payroll
(millions)": 132.30\n"Wins": 88',
lookup_str='', metadata={'source':
'./example_data/mlb_teams_2012.csv', 'row':
10}, lookup_index=0),
Document(page_content='Team:
Cardinals\n"Payroll (millions)":
110.30\n"Wins": 88', lookup_str='', metadata=
{'source':
'./example_data/mlb_teams_2012.csv', 'row':
11}, lookup_index=0),
Document(page_content='Team:
```

```
    Dodgers\n"Payroll (millions)": 95.14\n"Wins":
    86', lookup_str='', metadata={'source':
    './example_data/mlb_teams_2012.csv', 'row':
    12}, lookup_index=0),
    Document(page_content='Team: White
    Sox\n"Payroll (millions)": 96.92\n"Wins":
    85', lookup_str='', metadata={'source':
    './example_data/mlb_teams_2012.csv', 'row':
    13}, lookup_index=0),
    Document(page_content='Team:
    Brewers\n"Payroll (millions)": 97.65\n"Wins":
    83', lookup_str='', metadata={'source':
    './example_data/mlb_teams_2012.csv', 'row':
    14}, lookup_index=0),
    Document(page_content='Team:
    Phillies\n"Payroll (millions)":
    174.54\n"Wins": 81', lookup_str='', metadata=
    {'source':
    './example_data/mlb_teams_2012.csv', 'row':
    15}, lookup_index=0),
    Document(page_content='Team:
    Diamondbacks\n"Payroll (millions)":
    74.28\n"Wins": 81', lookup_str='', metadata=
    {'source':
    './example_data/mlb_teams_2012.csv', 'row':
    16}, lookup_index=0),
    Document(page_content='Team:
    Pirates\n"Payroll (millions)": 63.43\n"Wins":
    79', lookup_str='', metadata={'source':
    './example_data/mlb_teams_2012.csv', 'row':
    17}, lookup_index=0),
```

```
Document(page_content='Team: Padres\n"Payroll
(millions)": 55.24\n"Wins": 76',
lookup_str='', metadata={'source':
'./example_data/mlb_teams_2012.csv', 'row':
18}, lookup_index=0),
Document(page_content='Team:
Mariners\n"Payroll (millions)":
81.97\n"Wins": 75', lookup_str='', metadata=
{'source':
'./example_data/mlb_teams_2012.csv', 'row':
19}, lookup_index=0),
Document(page_content='Team: Mets\n"Payroll
(millions)": 93.35\n"Wins": 74',
lookup_str='', metadata={'source':
'./example_data/mlb_teams_2012.csv', 'row':
20}, lookup_index=0),
Document(page_content='Team: Blue
Jays\n"Payroll (millions)": 75.48\n"Wins":
73', lookup_str='', metadata={'source':
'./example_data/mlb_teams_2012.csv', 'row':
21}, lookup_index=0),
Document(page_content='Team: Royals\n"Payroll
(millions)": 60.91\n"Wins": 72',
lookup_str='', metadata={'source':
'./example_data/mlb_teams_2012.csv', 'row':
22}, lookup_index=0),
Document(page_content='Team:
Marlins\n"Payroll (millions)":
118.07\n"Wins": 69', lookup_str='', metadata=
{'source':
'./example_data/mlb_teams_2012.csv', 'row':
```

```
23}, lookup_index=0),
Document(page_content='Team: Red
Sox\n"Payroll (millions)": 173.18\n"Wins":
69', lookup_str='', metadata={'source':
'./example_data/mlb_teams_2012.csv', 'row':
24}, lookup_index=0),
Document(page_content='Team:
Indians\n"Payroll (millions)": 78.43\n"Wins":
68', lookup_str='', metadata={'source':
'./example_data/mlb_teams_2012.csv', 'row':
25}, lookup_index=0),
Document(page_content='Team: Twins\n"Payroll
(millions)": 94.08\n"Wins": 66',
lookup_str='', metadata={'source':
'./example_data/mlb_teams_2012.csv', 'row':
26}, lookup_index=0),
Document(page_content='Team:
Rockies\n"Payroll (millions)": 78.06\n"Wins":
64', lookup_str='', metadata={'source':
'./example_data/mlb_teams_2012.csv', 'row':
27}, lookup_index=0),
Document(page_content='Team: Cubs\n"Payroll
(millions)": 88.19\n"Wins": 61',
lookup_str='', metadata={'source':
'./example_data/mlb_teams_2012.csv', 'row':
28}, lookup_index=0),
Document(page_content='Team: Astros\n"Payroll
(millions)": 60.65\n"Wins": 55',
lookup_str='', metadata={'source':
```

```
'./example_data/mlb_teams_2012.csv', 'row':
29}, lookup_index=0)]
```

Customizing the CSV parsing and loading

See the csv module documentation for more information of what csv args are supported.

```
loader =
CSVLoader(file_path='./example_data/mlb_teams_2(
csv_args={
    'delimiter': ',',
    'quotechar': '"',
    'fieldnames': ['MLB Team', 'Payroll in mill
'Wins']
})

data = loader.load()
```

```
print(data)
```

```
[Document(page_content='MLB Team:
Team\nPayroll in millions: "Payroll
(millions)"\nWins: "Wins"', lookup_str='',
```

```
metadata={'source':
'./example_data/mlb_teams_2012.csv', 'row':
0}, lookup_index=0),
Document(page_content='MLB Team:
Nationals\nPayroll in millions: 81.34\nWins:
98', lookup_str='', metadata={'source':
'./example_data/mlb_teams_2012.csv', 'row':
1}, lookup_index=0),
Document(page_content='MLB Team:
Reds\nPayroll in millions: 82.20\nWins: 97',
lookup_str='', metadata={'source':
'./example_data/mlb_teams_2012.csv', 'row':
2}, lookup_index=0),
Document(page_content='MLB Team:
Yankees\nPayroll in millions: 197.96\nWins:
95', lookup_str='', metadata={'source':
'./example_data/mlb_teams_2012.csv', 'row':
3}, lookup_index=0),
Document(page_content='MLB Team:
Giants\nPayroll in millions: 117.62\nWins:
94', lookup_str='', metadata={'source':
'./example_data/mlb_teams_2012.csv', 'row':
4}, lookup_index=0),
Document(page_content='MLB Team:
Braves\nPayroll in millions: 83.31\nWins:
94', lookup_str='', metadata={'source':
'./example_data/mlb_teams_2012.csv', 'row':
5}, lookup_index=0),
Document(page_content='MLB Team:
Athletics\nPayroll in millions: 55.37\nWins:
94', lookup_str='', metadata={'source':
```

```
'./example_data/mlb_teams_2012.csv', 'row':
6}, lookup_index=0),
Document(page_content='MLB Team:
Rangers\nPayroll in millions: 120.51\nWins:
93', lookup_str='', metadata={'source':
'./example_data/mlb_teams_2012.csv', 'row':
7}, lookup_index=0),
Document(page_content='MLB Team:
Orioles\nPayroll in millions: 81.43\nWins:
93', lookup_str='', metadata={'source':
'./example_data/mlb_teams_2012.csv', 'row':
8}, lookup_index=0),
Document(page_content='MLB Team:
Rays\nPayroll in millions: 64.17\nWins: 90',
lookup_str='', metadata={'source':
'./example_data/mlb_teams_2012.csv', 'row':
9}, lookup_index=0),
Document(page_content='MLB Team:
Angels\nPayroll in millions: 154.49\nWins:
89', lookup_str='', metadata={'source':
'./example_data/mlb_teams_2012.csv', 'row':
10}, lookup_index=0),
Document(page_content='MLB Team:
Tigers\nPayroll in millions: 132.30\nWins:
88', lookup_str='', metadata={'source':
'./example_data/mlb_teams_2012.csv', 'row':
11}, lookup_index=0),
Document(page_content='MLB Team:
Cardinals\nPayroll in millions: 110.30\nWins:
88', lookup_str='', metadata={'source':
'./example_data/mlb_teams_2012.csv', 'row':
```

12}, lookup_index=0),
Document(page_content='MLB Team:
Dodgers\nPayroll in millions: 95.14\nWins:
86', lookup_str='', metadata={'source':
'./example_data/mlb_teams_2012.csv', 'row':
13}, lookup_index=0),
Document(page_content='MLB Team: White
Sox\nPayroll in millions: 96.92\nWins: 85',
lookup_str='', metadata={'source':
'./example_data/mlb_teams_2012.csv', 'row':
14}, lookup_index=0),
Document(page_content='MLB Team:
Brewers\nPayroll in millions: 97.65\nWins:
83', lookup_str='', metadata={'source':
'./example_data/mlb_teams_2012.csv', 'row':
15}, lookup_index=0),
Document(page_content='MLB Team:
Phillies\nPayroll in millions: 174.54\nWins:
81', lookup_str='', metadata={'source':
'./example_data/mlb_teams_2012.csv', 'row':
16}, lookup_index=0),
Document(page_content='MLB Team:
Diamondbacks\nPayroll in millions:
74.28\nWins: 81', lookup_str='', metadata=
{'source':
'./example_data/mlb_teams_2012.csv', 'row':
17}, lookup_index=0),
Document(page_content='MLB Team:
Pirates\nPayroll in millions: 63.43\nWins:
79', lookup_str='', metadata={'source':
'./example_data/mlb_teams_2012.csv', 'row':

```
18}, lookup_index=0),
Document(page_content='MLB Team:
Padres\nPayroll in millions: 55.24\nWins:
76', lookup_str='', metadata={'source':
'./example_data/mlb_teams_2012.csv', 'row':
19}, lookup_index=0),
Document(page_content='MLB Team:
Mariners\nPayroll in millions: 81.97\nWins:
75', lookup_str='', metadata={'source':
'./example_data/mlb_teams_2012.csv', 'row':
20}, lookup_index=0),
Document(page_content='MLB Team:
Mets\nPayroll in millions: 93.35\nWins: 74',
lookup_str='', metadata={'source':
'./example_data/mlb_teams_2012.csv', 'row':
21}, lookup_index=0),
Document(page_content='MLB Team: Blue
Jays\nPayroll in millions: 75.48\nWins: 73',
lookup_str='', metadata={'source':
'./example_data/mlb_teams_2012.csv', 'row':
22}, lookup_index=0),
Document(page_content='MLB Team:
Royals\nPayroll in millions: 60.91\nWins:
72', lookup_str='', metadata={'source':
'./example_data/mlb_teams_2012.csv', 'row':
23}, lookup_index=0),
Document(page_content='MLB Team:
Marlins\nPayroll in millions: 118.07\nWins:
69', lookup_str='', metadata={'source':
'./example_data/mlb_teams_2012.csv', 'row':
24}, lookup_index=0),
```

```
Document(page_content='MLB Team: Red
Sox\nPayroll in millions: 173.18\nWins: 69',
lookup_str='', metadata={'source':
'./example_data/mlb_teams_2012.csv', 'row':
25}, lookup_index=0),
Document(page_content='MLB Team:
Indians\nPayroll in millions: 78.43\nWins:
68', lookup_str='', metadata={'source':
'./example_data/mlb_teams_2012.csv', 'row':
26}, lookup_index=0),
Document(page_content='MLB Team:
Twins\nPayroll in millions: 94.08\nWins: 66',
lookup_str='', metadata={'source':
'./example_data/mlb_teams_2012.csv', 'row':
27}, lookup_index=0),
Document(page_content='MLB Team:
Rockies\nPayroll in millions: 78.06\nWins:
64', lookup_str='', metadata={'source':
'./example_data/mlb_teams_2012.csv', 'row':
28}, lookup_index=0),
Document(page_content='MLB Team:
Cubs\nPayroll in millions: 88.19\nWins: 61',
lookup_str='', metadata={'source':
'./example_data/mlb_teams_2012.csv', 'row':
29}, lookup_index=0),
Document(page_content='MLB Team:
Astros\nPayroll in millions: 60.65\nWins:
55', lookup_str='', metadata={'source':
'./example_data/mlb_teams_2012.csv', 'row':
30}, lookup_index=0)]
```

Specify a column to identify the document source

Use the `source_column` argument to specify a source for the document created from each row. Otherwise `file_path` will be used as the source for all documents created from the CSV file.

This is useful when using documents loaded from CSV files for chains that answer questions using sources.

```
loader =
CSVLoader(file_path='./example_data/mlb_teams_2
source_column="Team")

data = loader.load()
```

```
print(data)
```

```
    [Document(page_content='Team:
Nationals\n"Payroll (millions)":
81.34\n"Wins": 98', lookup_str='', metadata=
{'source': 'Nationals', 'row': 0},
lookup_index=0), Document(page_content='Team:
Reds\n"Payroll (millions)": 82.20\n"Wins":
```

97', lookup_str='', metadata={'source': 'Reds', 'row': 1}, lookup_index=0), Document(page_content='Team: Yankees\n"Payroll (millions)": 197.96\n"Wins": 95', lookup_str='', metadata={'source': 'Yankees', 'row': 2}, lookup_index=0), Document(page_content='Team: Giants\n"Payroll (millions)": 117.62\n"Wins": 94', lookup_str='', metadata={'source': 'Giants', 'row': 3}, lookup_index=0), Document(page_content='Team: Braves\n"Payroll (millions)": 83.31\n"Wins": 94', lookup_str='', metadata={'source': 'Braves', 'row': 4}, lookup_index=0), Document(page_content='Team: Athletics\n"Payroll (millions)": 55.37\n"Wins": 94', lookup_str='', metadata={'source': 'Athletics', 'row': 5}, lookup_index=0), Document(page_content='Team: Rangers\n"Payroll (millions)": 120.51\n"Wins": 93', lookup_str='', metadata={'source': 'Rangers', 'row': 6}, lookup_index=0), Document(page_content='Team: Orioles\n"Payroll (millions)": 81.43\n"Wins": 93', lookup_str='', metadata={'source': 'Orioles', 'row': 7}, lookup_index=0), Document(page_content='Team: Rays\n"Payroll (millions)": 64.17\n"Wins": 90', lookup_str='', metadata={'source': 'Rays', 'row': 8}, lookup_index=0), Document(page_content='Team: Angels\n"Payroll

(millions)": 154.49\n"Wins": 89', lookup_str='', metadata={'source': 'Angels', 'row': 9}, lookup_index=0), Document(page_content='Team: Tigers\n"Payroll (millions)": 132.30\n"Wins": 88', lookup_str='', metadata={'source': 'Tigers', 'row': 10}, lookup_index=0), Document(page_content='Team: Cardinals\n"Payroll (millions)": 110.30\n"Wins": 88', lookup_str='', metadata={'source': 'Cardinals', 'row': 11}, lookup_index=0), Document(page_content='Team: Dodgers\n"Payroll (millions)": 95.14\n"Wins": 86', lookup_str='', metadata={'source': 'Dodgers', 'row': 12}, lookup_index=0), Document(page_content='Team: White Sox\n"Payroll (millions)": 96.92\n"Wins": 85', lookup_str='', metadata={'source': 'White Sox', 'row': 13}, lookup_index=0), Document(page_content='Team: Brewers\n"Payroll (millions)": 97.65\n"Wins": 83', lookup_str='', metadata={'source': 'Brewers', 'row': 14}, lookup_index=0), Document(page_content='Team: Phillies\n"Payroll (millions)": 174.54\n"Wins": 81', lookup_str='', metadata={'source': 'Phillies', 'row': 15}, lookup_index=0), Document(page_content='Team: Diamondbacks\n"Payroll (millions)": 74.28\n"Wins": 81', lookup_str='', metadata={'source': 'Diamondbacks', 'row': 16},

lookup_index=0), Document(page_content='Team: Pirates\n"Payroll (millions)": 63.43\n"Wins": 79', lookup_str='', metadata={'source': 'Pirates', 'row': 17}, lookup_index=0), Document(page_content='Team: Padres\n"Payroll (millions)": 55.24\n"Wins": 76', lookup_str='', metadata={'source': 'Padres', 'row': 18}, lookup_index=0), Document(page_content='Team: Mariners\n"Payroll (millions)": 81.97\n"Wins": 75', lookup_str='', metadata={'source': 'Mariners', 'row': 19}, lookup_index=0), Document(page_content='Team: Mets\n"Payroll (millions)": 93.35\n"Wins": 74', lookup_str='', metadata={'source': 'Mets', 'row': 20}, lookup_index=0), Document(page_content='Team: Blue Jays\n"Payroll (millions)": 75.48\n"Wins": 73', lookup_str='', metadata={'source': 'Blue Jays', 'row': 21}, lookup_index=0), Document(page_content='Team: Royals\n"Payroll (millions)": 60.91\n"Wins": 72', lookup_str='', metadata={'source': 'Royals', 'row': 22}, lookup_index=0), Document(page_content='Team: Marlins\n"Payroll (millions)": 118.07\n"Wins": 69', lookup_str='', metadata={'source': 'Marlins', 'row': 23}, lookup_index=0), Document(page_content='Team: Red Sox\n"Payroll (millions)": 173.18\n"Wins": 69', lookup_str='', metadata=

```
{'source': 'Red Sox', 'row': 24},
lookup_index=0), Document(page_content='Team:
Indians\n"Payroll (millions)": 78.43\n"Wins":
68', lookup_str='', metadata={'source':
'Indians', 'row': 25}, lookup_index=0),
Document(page_content='Team: Twins\n"Payroll
(millions)": 94.08\n"Wins": 66',
lookup_str='', metadata={'source': 'Twins',
'row': 26}, lookup_index=0),
Document(page_content='Team:
Rockies\n"Payroll (millions)": 78.06\n"Wins":
64', lookup_str='', metadata={'source':
'Rockies', 'row': 27}, lookup_index=0),
Document(page_content='Team: Cubs\n"Payroll
(millions)": 88.19\n"Wins": 61',
lookup_str='', metadata={'source': 'Cubs',
'row': 28}, lookup_index=0),
Document(page_content='Team: Astros\n"Payroll
(millions)": 60.65\n"Wins": 55',
lookup_str='', metadata={'source': 'Astros',
'row': 29}, lookup_index=0)]
```