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CSV Loader

Contents

- CSV Loader
- Specify a column to be used identify the document source

Load csv files with a single row per document.

```
from langchain.document_loaders.csv_loader import CSVLoader
```

```
loader = CSVLoader(file_path='./example_data/mlb_teams_2012.csv')  
  
data = loader.load()
```

```
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':  
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Document(page_content='Team: Yankees\n"Payroll (millions)": 197.96\n"Wins": 95',  
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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',  
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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),
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```

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':
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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)]

```

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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_2012.csv', csv_args={
    'delimiter': ',',
    'quotechar': '"',
    'fieldnames': ['MLB Team', 'Payroll in millions', 'Wins']
})
```

```
data = loader.load()
```

```
print(data)
```

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

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```
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)]
```

Use the `source_column` argument to specify a column to be set as the 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

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```
loader = CSVLoader(file_path='./example_data/mlb_teams_2012.csv',
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',
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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',
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Document(page_content='Team: Rays\n"Payroll (millions)": 64.17\n"Wins": 90',
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Document(page_content='Team: Diamondbacks\n"Payroll (millions)": 74.28\n"Wins":
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lookup_index=0), Document(page_content='Team: Marlins\n"Payroll (millions)":  
118.07\n"Wins": 69', lookup_str='', metadata={'source': 'Marlins', 'row': 23},  
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60.65\n"Wins": 55', lookup_str='', metadata={'source': 'Astros', 'row': 29},  
lookup_index=0)]
```