

gatsby-transformer-csv

Parses CSV files into JSON arrays.

Install

```
npm install gatsby-transformer-csv
```

Note: You generally will use this plugin together with the [gatsby-source-filesystem](#) plugin. `gatsby-source-filesystem` reads in the files then this plugin *transforms* the files into data you can query.

How to use

If you put your `.csv` files in `./src/data` :

```
// In your gatsby-config.js
module.exports = {
  plugins: [
    {
      resolve: `gatsby-source-filesystem`,
      options: {
        name: `data`,
        path: `${__dirname}/src/data/`,
      },
    },
    `gatsby-transformer-csv`,
  ],
}
```

Configuration

The example above is the minimal configuration required to begin working. Additional customization of the parsing process is possible using the parameters listed in [csvtojson](#). Any parameter listed on that page can be passed directly to the library using the plugin options.

For example, to pass the `noheader` option, you can configure like so:

```
// In your gatsby-config.js
module.exports = {
  plugins: [
    {
      resolve: `gatsby-source-filesystem`,
      options: {
        name: `data`,
        path: `${__dirname}/src/data/`,
      },
    },
    {
      resolve: `gatsby-transformer-csv`,
      options: {
```

```

      noheader: true,
    },
  ],
];
}

```

By default, files that do not have a `.csv` extension will not be parsed, but this can be configured using the `extensions` option which takes an array of strings.

For example, if you need to parse TSV files, you can configure the plugin like so:

```

// In your gatsby-config.js
module.exports = {
  plugins: [
    {
      resolve: `gatsby-source-filesystem`,
      options: {
        name: `data`,
        path: `${__dirname}/src/data/`,
      },
    },
    {
      resolve: `gatsby-transformer-csv`,
      options: {
        extensions: [`tsv`],
        delimiter: '\t'
      },
    },
  ],
};

```

You can see an example project at <https://github.com/gatsbyjs/gatsby/tree/master/examples/using-csv>.

Parsing algorithm

By default each row is converted into a node with CSV headers as the keys.

If your project has a `letters.csv` with:

```

letter,value
a,65
b,66
c,67

```

The following three nodes would be created:

```

[
  { "letter": "a", "value": 65, "type": "LettersCsv" },
  { "letter": "b", "value": 66, "type": "LettersCsv" },

```

```
{ "letter": "c", "value": 67, "type": "LettersCsv" }
]
```

Alternatively the `typeName` plugin option can be used to modify this behaviour.

Its arguments are either a string denoting the type name or a function that accepts an argument object of `{ node, object }` which should return the string type name.

Two predefined functions are provided.

```
const { typeNameFromDir, typeNameFromFile } = require("gatsby-transformer-csv")
```

`typeNameFromFile` will produce a type per CSV file. When the `typeName` plugin option is undefined, this is the default case. A file name of `letters.csv` will produce a type of `LettersCsv`.

`typeNameFromDir` will produce a type per folder of CSVs. A folder called `things` containing CSVs will return a type of `ThingsCsv`.

As an example of a custom function, if the CSVs are in a group of folders, and you wish to create a group per folder with the suffix "Data". In this case a folder called `things` containing CSVs will return a type of `ThingsData`.

```
// In your gatsby-config.js
const _ = require(`lodash`)
const path = require(`path`)

module.exports = {
  plugins: [
    {
      resolve: `gatsby-transformer-csv`,
      options: {
        typeName: ({ node, object }) =>
          _.upperFirst(_.camelCase(`${path.basename(node.dir)} Data`)),
      },
    },
  ],
}
```

The suffix `Csv` is not added when providing your own function.

If you wanted to have a group per folder with the suffix "Csv", the `typeNameFromDir` provided function would be appropriate.

```
// In your gatsby-config.js
const { typeNameFromDir } = require("gatsby-transformer-csv")

module.exports = {
  plugins: [
    {
      resolve: `gatsby-transformer-csv`,
      options: {
        typeName: typeNameFromDir,
      },
    },
  ],
}
```

```
    },
  },
],
}
```

Alternate content behaviour

The `nodePerFile` plugin option can either be `false`, which creates a node per line like above, `true`, which creates a node per file, with the key `items` containing the content, or a string which is the key containing the content.

For example, if there are a series of csv files called `vegetables.csv`, `grains.csv`, the following config would produce the following result.

The config:

```
// In your gatsby-config.js
module.exports = {
  plugins: [
    {
      resolve: `gatsby-transformer-csv`,
      options: {
        typeName: () => `Foodstuffs`,
        nodePerFile: `ingredients`,
      },
    },
  ],
}
```

A query:

```
{
  allFoodstuffs {
    nodes {
      ingredients {
        ingredient
        amount
      }
      parent {
        ... on File {
          name
        }
      }
    }
  }
}
```

The result:

```

{
  "data": {
    "allFoodstuffs": {
      "nodes": [
        {
          "parent": {
            "name": "vegetables"
          },
          "ingredients": [
            {
              "ingredient": "potato",
              "amount": 32
            },
            {
              "ingredient": "lettuce",
              "amount": 12
            }
          ]
        },
        {
          "parent": {
            "name": "grains"
          },
          "ingredients": [
            {
              "ingredient": "barley",
              "amount": 2
            },
            {
              "ingredient": "wheat",
              "amount": 42
            }
          ]
        }
      ]
    }
  }
}

```

How to query

In the default configuration, items can be queried like this:

```

{
  allLettersCsv {
    edges {
      node {
        letter
        value
      }
    }
  }
}

```

```
    }  
  }  
}
```

Which would return:

```
{  
  "allLettersCsv": {  
    "edges": [  
      {  
        "node": {  
          "letter": "a",  
          "value": 65  
        }  
      },  
      {  
        "node": {  
          "letter": "b",  
          "value": 66  
        }  
      },  
      {  
        "node": {  
          "letter": "c",  
          "value": 67  
        }  
      }  
    ]  
  }  
}
```