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Quick Start

This page covers the key concepts of AG Grid: A high performance, feature rich, **React Table** and React Data Grid.



Your First React Data Grid

Add AG Grid to your application in these steps:

1. NPM Install

```
npm install ag-grid-react
```

2. Import the React Data Grid

```
import { AgGridReact } from 'ag-grid-react'; // React Data Grid Component
import "ag-grid-community/styles/ag-grid.css"; // Mandatory CSS required by the L
import "ag-grid-community/styles/ag-theme-quartz.css"; // Optional Theme applied
```

3. Define Rows and Columns

```
const GridExample = () => {
  // Row Data: The data to be displayed.
  const [rowData, setRowData] = useState([
```

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```
{ field: "model" },
  { field: "price" },
  { field: "electric" }
]);
// ...
```

4. React Data Grid Component

The AgGridReact component is wrapped in a parent container div . Style is applied to the parent container. Rows and Columns are set as AgGridReact component attributes.

5. Running the React Data Grid

Below is a live example of the application running. Click </> Code to see the code.

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(i)

To live-edit the code, open the example in CodeSandbox or Plunker using the buttons to the lower-right.

Now that you have a basic React Data Grid running, the remainder of this page explores some of the key concepts.

Showing Data

Mapping Values

The field or valueGetter attributes Map Data to Columns. A field maps to a field in the data. A Value Getter is a function callback that returns the cell value.

The headerName provides the title for the header. If missing the title is derived from field.

Text Formatting

Format text for cell content using a Value Formatter.

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```
const CustomButtonComponent = (props) => {
   return <button onClick={() => window.alert('clicked') }>Push Me!</button>;
};

const [colDefs, setColDefs] = useState([
   { field: "button", cellRenderer: CustomButtonComponent },
   // ...
]);
```

Resizing Columns

Columns are **Resized** by dragging the Column Header edges. Additionally assign flex values to allow columns to flex to the grid width.

Example

This example demonstrates mapping and formatting values, cell components, and resizing columns.

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Working with Data

By default, the row data is used to infer the **Cell Data Type**. The cell data type allows grid features, such as filtering and editing, to work without additional configuration.

Filtering

Column Filters are embedded into each column menu. These are enabled using the filter attribute. The filter type is inferred from the cell data type.

There are 5 **Provided Filters** which can be set through this attribute. You can also create your own **Custom Filter**.

Floating Filters embed the Column Filter into the header for ease of access.

Editing

Enable Editing by setting the editable attribute to true. The cell editor is inferred from

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Set the cell editor type using the cellEditor attribute. There are 7 **Provided Cell Editors** which can be set through this attribute. You can also create your own **Custom Editors**.

Sorting

Data is **Sorted** by clicking the column headers. Sorting is enabled by default.

Row Selection

Row Selection is enabled using the rowSelection attribute.

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Enable Pagination by setting pagination to be true.

```
const pagination = true;
const paginationPageSize = 500;
const paginationPageSizeSelector = [200, 500, 1000];

<AgGridReact
    pagination={pagination}
    paginationPageSize={paginationPageSize}
    paginationPageSizeSelector={paginationPageSizeSelector}
/>
```

Example

This example demonstrates filtering, editing, sorting, row selection, and pagination.



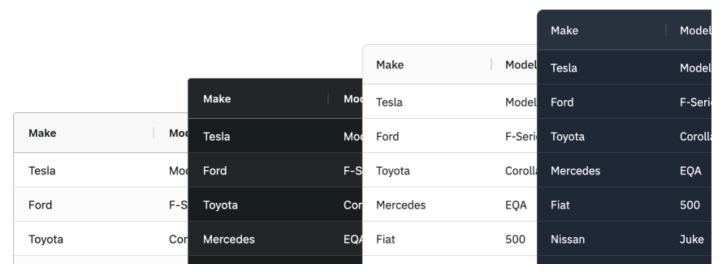
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Themes & Style

Themes

Grid Themes define how the grid looks (colors, font, spacing etc). The grid comes with **Provided Themes** such as Quartz and Alpine. To use a theme you need to 1) import the themes CSS and 2) apply the theme to the parent HTML element of the grid.



From left to right Alpine Light, Alpine Dark, Quartz Light, and Quartz Dark AG Grid themes.

Customising a Theme

Customise Themes using CSS variables.

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```
--ag-neader-background-color: rgb(228, 237, 250);
/* Changes the hover color of the row*/
--ag-row-hover-color: rgb(216, 226, 255);
}
```











Figma

If you are designing within Figma, you can use the **AG Grid Design System** to replicate the Quartz and Alpine AG Grid themes within Figma. These default themes can be extended with Figma variables to match any existing visual design or create entirely new AG Grid

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to set cell background colour based on its value.

```
.rag-green {
  background-color: #33cc3344;
}

const [columnDefs, setColumnDefs] = useState([{
    field: 'electric',
    cellClassRules: {
        // apply green to electric cars
        'rag-green': params => params.value === true,
    }
}]);

<AgGridReact columnDefs={columnDefs} />
```

Row Style

Define rules to apply **Styling to Rows** using rowClassRules . This allows changing style (e.g. row colour) based on row values.

```
.rag-red {
  background-color: #cc222244;
}

const rowClassRules = {
    // apply red to Ford cars
    'rag-red': params => params.data.make === 'Ford',
};

<AgGridReact rowClassRules={rowClassRules} />
```

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Next Steps

- Read our Introductory Tutorial.
- Watch our Video Tutorials.

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