

# Utils.

In Vue.js 3, utility functions (utils) are common helper functions that can be reused across different components in your application. They help in keeping your code clean and DRY (Don't Repeat Yourself).

Let's go through a basic example of how to create and use utility functions in a Vue.js 3 project.

## Step-by-Step Guide

1. **Create a Utility File:** First, create a file where you will define your utility functions. For example, let's create a file named `utils.js` in the `src` directory.

```
// src/utils.js
export function formatDate(date) {
  return new Date(date).toLocaleDateString();
}

export function capitalizeFirstLetter(string) {
  return string.charAt(0).toUpperCase() + string.slice(1);
}
```

2. **Use Utility Functions in a Component:** Now, import and use these utility functions in a Vue component. For example, let's use them in `App.vue`.

```
<template>
  <div>
    <!-- Display the formatted date and capitalized title -->
    <h1>{{ capitalizedTitle }}</h1>
    <p>Formatted Date: {{ formattedDate }}</p>
  </div>
</template>
```

```

<script>
// Import the utility functions
import { formatDate, capitalizeFirstLetter } from './utils';
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export default {
  data() {
    return {
      title: 'hello world', // Original title
      date: '2024-07-23'    // Original date
    };
  },
  computed: {
    // Use the formatDate function to format the date
    formattedDate() {
      return formatDate(this.date);
    },
    // Use the capitalizeFirstLetter function to capitalize the title
    capitalizedTitle() {
      return capitalizeFirstLetter(this.title);
    }
  }
};
</script>

```

## Explanation:

- In `utils.js`, we defined two utility functions: `formatDate` and `capitalizeFirstLetter`.
- In `App.vue`, we imported these functions.
- We used the imported functions in the `computed` properties to format the date and capitalize the title.
- The template part of the component then uses these computed properties to display the formatted and capitalized values.
- **Utility File (`utils.js`):**
  - `formatDate(date)`: Takes a date and formats it.
  - `capitalizeFirstLetter(string)`: Takes a string and capitalizes the first letter.
- **Vue Component (`App.vue`):**

- **Import the utility functions** at the top.
- **Use these functions** in computed properties:
  - `formattedDate()`: Formats the `date` data using the `formatDate` function.
  - `capitalizedTitle()`: Capitalizes the `title` data using the `capitalizeFirstLetter` function.
- **Display the processed data** in the template using `{{ ... }}`.

This way, you can easily reuse these utility functions across different components by simply importing them, keeping your code clean and organized.