

# @wbindabla/form\_validator - FormFormattingEvent API Documentation

## Overview

`FormFormattingEvent` is a singleton class from the **@wbindabla/form\_validator** library that provides real-time formatting and validation utilities for form input fields. It handles automatic transformation of user input including uppercase conversion, word capitalization, and comprehensive username formatting with locale support.

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## Features

- **Singleton Pattern:** Single instance ensures consistent behavior across the application
  - **Real-time Formatting:** Automatic transformation on `blur` events
  - **Locale Support:** Customizable locale settings for text transformations
  - **Event Delegation:** Efficient event handling using jQuery delegation
  - **HTML Sanitization:** Built-in protection against HTML injection
  - **Default Export:** Pre-instantiated formatter available for immediate use
  - **Comprehensive Logging:** Detailed logging for debugging and monitoring
-

# Installation

## Prerequisites

- jQuery 3.0+
- TypeScript 4.0+ (or JavaScript ES6+)

## Via npm

```
bash

npm install @wlindabla/form_validator
```

## Via yarn

```
bash

yarn add @wlindabla/form_validator
```

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# Getting Started

## Import Methods

### Method 1: Using the Default Export

```
typescript

import { formatterEvent } from "@wlindabla/form_validator";

// Apply formatting directly to your form
const form = document.getElementById("myForm");
formatterEvent.init({ locales: "en-US" });
formatterEvent.lastnameToUpperCase(form);
formatterEvent.capitalizeUsername(form);
formatterEvent.usernameFormatDom(form);
```

### Method 2: Using the Class

```
typescript

import { FormFormattingEvent } from "@wlindabla/form_validator";

const formatter = FormFormattingEvent.getInstance();
formatter.init({ locales: "en-US" });
```

### Method 3: Named Import

typescript

```
import { FormFormattingEvent, formatterEvent } from "@wlindabla/form_validator";

// Use pre-instantiated formatter
formatterEvent.init({ locales: "fr-FR" });
```

## Quick Setup

typescript

```
import { formatterEvent } from "@wlindabla/form_validator";

const form = document.querySelector("form");

formatterEvent
  .init({ locales: "en-US" })
  .lastnameToUpperCase(form)
  .capitalizeUsername(form)
  .usernameFormatDom(form);
```

## API Reference

### `getInstance(): FormFormattingEvent`

Returns the singleton instance of `FormFormattingEvent`.

**Returns:** `FormFormattingEvent` - The singleton instance

### Example:

typescript

```
import { FormFormattingEvent } from "@wlindabla/form_validator";

const formatter = FormFormattingEvent.getInstance();
```

### `init(options?: OptionsFormattingEvent): this`

Initializes global formatting options for the event manager. This method supports method chaining.

### Parameters:

Parameter	Type	Default	Description
<code>options</code>	<code>OptionsFormattingEvent</code>	<code>{}</code>	Configuration object for formatting events

Options Interface:

```
typescript

interface OptionsFormattingEvent {
  locales?: string | string[]; // Locale code(s) for text formatting
}
```

**Returns:** `this` - The current instance for method chaining

Example:

```
typescript

import { formatterEvent } from "@wlandabla/form_validator";

// Single locale
formatterEvent.init({ locales: "en-US" });

// Multiple locales (fallback)
formatterEvent.init({ locales: ["fr-FR", "fr"] });

// Method chaining
formatterEvent
  .init({ locales: "en-US" })
  .lastnameToUpperCase(document);
```

`lastnameToUpperCase(subject, locales?): void`

Converts last name input field values to uppercase in real-time when users leave the field.

Parameters:

Parameter	Type	Required	Description
<code>subject</code>	<code>HTMLElement   Document   JQuery</code>	Yes	The DOM context to search within
<code>locales</code>	<code>string   string[]</code>	No	Locale settings for uppercase transformation (overrides init locale)

**Target Selector:** `input.lastname`

**Event Trigger:** `blur` event

Behavior:

- Listens for `blur` events on `input.lastname` elements

- Trims whitespace and sanitizes HTML using `escapeHtmlBalise()`
- Applies locale-specific uppercase transformation
- Skips empty fields silently
- Logs all formatting operations

**Throws:** `Error` if the `.lastname` input field is not found

**Example:**

```
typescript
import { formatterEvent } from "@wlandabla/form_validator";

const formContainer = document.getElementById("userForm");

// Use default locale from init
formatterEvent.lastnameToUpperCase(formContainer);

// Override with custom locale
formatterEvent.lastnameToUpperCase(formContainer, "tr-TR"); // Turkish

// Multiple locales
formatterEvent.lastnameToUpperCase(formContainer, ["en-US", "en"]);
```

**HTML Template:**

```
html
<form id="userForm">
  <div class="form-group">
    <label for="lastname">Last Name</label>
    <input type="text" id="lastname" class="lastname" placeholder="Enter your last name">
  </div>
</form>
```

**Transformation Examples:**

Input	Output
<code>martin</code>	<code>MARTIN</code>
<code>garcía</code>	<code>GARCÍA</code>
<code>müller</code>	<code>MÜLLER</code>

**capitalizeUsername(subject, separator\_toString?, finale\_separator\_toString?, locales?): void**

Capitalizes each word in the first name input field when users leave the field.

**Parameters:**

Parameter	Type	Default	Description
subject	HTMLElement   Document   JQuery	—	The DOM context containing the input field
separator_toString	string	" "	Word separator in the input value
finale_separator_toString	string	" "	Word separator used after formatting
locales	string   string[]	—	Locale(s) for capitalization (overrides init locale)

**Target Selector:** input.firstname

**Event Trigger:** blur event

**Behavior:**

- Listens for blur events on input.firstname elements
- Capitalizes the first letter of each word
- Converts remaining letters to lowercase
- Supports custom separators (spaces, hyphens, underscores, etc.)
- Handles multi-word names with different separators

**Example:**

```
typescript
```

```
import { formatterEvent } from "@wlandabla/form_validator";

const formContainer = document.getElementById("userForm");

// Standard space-separated words
formatterEvent.capitalizeUsername(formContainer);

// Hyphenated names
formatterEvent.capitalizeUsername(
  formContainer,
  "-", // Split on hyphens
  "-", // Join with hyphens
  "en-US"
);

// Multiple word separators
formatterEvent.capitalizeUsername(
  formContainer,
  " ", // Split on spaces
  " ", // Join with spaces
  "fr-FR" // French locale
);
```

Transformation Examples:

Input	Output
john doe	John Doe
MARIE-LOUISE	Marie-Louise
pierre BERNARD	Pierre Bernard
jean-paul martin	Jean-Paul Martin

HTML Template:

```
html
<input type="text" class="firstname" placeholder="Enter your first name">
```

usernameFormatDom(subject, separator\_toString?, finale\_separator\_toString?, locales?): void

Automatically formats username fields by applying comprehensive formatting rules for full names.

Parameters:

Parameter	Type	Default	Description
<code>subject</code>	<code>HTMLElement   Document   JQuery</code>	—	The DOM context containing the input
<code>separator_toString</code>	<code>string</code>	<code>" "</code>	Word separator in the input
<code>finale_separator_toString</code>	<code>string</code>	<code>" "</code>	Word separator after processing
<code>locales</code>	<code>string   string[]</code>	—	Locale(s) for formatting (overrides init locale)

**Target Selector:** `input.username`

**Custom Attributes:**

- `data-position-lastname`: Position of the last name (`"left"` or `"right"`, default: `"left"`)

**Event Trigger:** `blur` event

**Behavior:**

- Listens for `blur` events on `input.username` elements
- Applies comprehensive username formatting via `usernameFormat()` utility
- Respects last name position based on `data-position-lastname` attribute
- Supports custom word separators
- Returns formatted full name with proper capitalization

**Example:**

```
typescript
```



```
import { formatterEvent } from "@wlandabla/form_validator";

const formContainer = document.getElementById("userForm");

// Standard formatting
formatterEvent.usernameFormatDom(formContainer);

// With custom separators
formatterEvent.usernameFormatDom(
  formContainer,
  " ",    // Split on spaces
  "- ",   // Join with hyphens
  "en-US"
);

// With specific locale
formatterEvent.usernameFormatDom(formContainer, " ", " ", "fr-FR");
```

## HTML Templates:

```
html

<!-- Last name on the left -->
<input
  type="text"
  class="username"
  data-position-lastname="left"
  placeholder="Enter full name"
>

<!-- Last name on the right -->
<input
  type="text"
  class="username"
  data-position-lastname="right"
  placeholder="Enter full name"
>

<!-- Default (left) -->
<input
  type="text"
  class="username"
  placeholder="Enter full name"
>
```

## Transformation Examples:

Input	Output	Position
john martin	John Martin	left
martin john	John Martin	right
marie-louise dupont	Marie-Louise Dupont	left

## Usage Examples

### Example 1: Basic Form Setup

```
typescript

import { formatterEvent } from "@wlindabla/form_validator";

// Initialize formatter
formatterEvent.init({ locales: "en-US" });

// Target the form
const form = document.getElementById("contactForm");

// Apply all formatters
formatterEvent.lastnameToUpperCase(form);
formatterEvent.capitalizeUsername(form);
formatterEvent.usernameFormatDom(form);
```

### HTML:

```
html

<form id="contactForm">
  <input type="text" class="firstname" placeholder="First Name">
  <input type="text" class="lastname" placeholder="Last Name">
  <input type="text" class="username" placeholder="Full Name">
  <button type="submit">Submit</button>
</form>
```

### Example 2: Multi-Locale Support

```
typescript
```

```
import { formatterEvent } from "@wlandabla/form_validator";

// Initialize with multiple locales
formatterEvent.init({ locales: ["fr-FR", "en-US"] });

const form = document.getElementById("intlForm");

// French formatting
formatterEvent.lastnameToUpperCase(form, "fr-FR");
formatterEvent.capitalizeUsername(form, " ", " ", "fr-FR");

// English formatting for username
formatterEvent.usernameFormatDom(form, " ", " ", "en-US");
```

### Example 3: Dynamic Forms

```
typescript

import { formatterEvent } from "@wlandabla/form_validator";

formatterEvent.init({ locales: "en-US" });

// Use document for event delegation - works with dynamically added elements
formatterEvent.lastnameToUpperCase(document);
formatterEvent.capitalizeUsername(document);
formatterEvent.usernameFormatDom(document);

// Later, when adding new form elements dynamically
const newForm = document.createElement("form");
newForm.innerHTML = `
  <input type="text" class="firstname">
  <input type="text" class="lastname">
  <input type="text" class="username">
`;
document.body.appendChild(newForm);

// Formatting automatically applies to new elements!
```

### Example 4: Selective Field Formatting

```
typescript
```

```
import { formatterEvent } from "@wlandabla/form_validator";

formatterEvent.init({ locales: "en-US" });

// Format different sections separately
const profileSection = document.querySelector(".profile-section");
const registrationSection = document.querySelector(".registration-section");

// Profile uses standard formatting
formatterEvent.capitalizeUsername(profileSection);
formatterEvent.lastnameToUpperCase(profileSection);

// Registration uses custom separators
formatterEvent.usernameFormatDom(registrationSection, " ", "-", "en-US");
```

### Example 5: Method Chaining

```
typescript

import { formatterEvent } from "@wlandabla/form_validator";

const form = document.getElementById("myForm");

// Chain method calls for clean code
formatterEvent
  .init({ locales: "en-US" })
  .lastnameToUpperCase(form)
  .capitalizeUsername(form)
  .usernameFormatDom(form);
```

### Example 6: Complete Registration Form

```
html
```

```
<!DOCTYPE html>
<html>
<head>
  <title>User Registration</title>
  <style>
    .form-group {
      margin-bottom: 1.5rem;
    }
    input {
      width: 100%;
      padding: 0.5rem;
      font-size: 1rem;
      border: 1px solid #ccc;
      border-radius: 4px;
    }
  </style>
</head>
<body>
  <form id="registrationForm">
    <div class="form-group">
      <label for="firstname">First Name *</label>
      <input
        type="text"
        id="firstname"
        class="firstname"
        required
      >
    </div>

    <div class="form-group">
      <label for="lastname">Last Name *</label>
      <input
        type="text"
        id="lastname"
        class="lastname"
        required
      >
    </div>

    <div class="form-group">
      <label for="username">Full Name</label>
      <input
        type="text"
        id="username"
        class="username"
        data-position-lastname="right"
      >
    </div>
  </form>
</body>
</html>
```

```
>
</div>

<button type="submit">Register</button>
</form>

<script src="https://code.jquery.com/jquery-3.6.0.min.js"></script>
<script type="module">
  import { formatterEvent } from "@wldnabla/form_validator";

  // Initialize and apply formatting
  formatterEvent
    .init({ locales: "en-US" })
    .lastNameToUpperCase(document)
    .capitalizeUsername(document)
    .usernameFormatDom(document);
</script>
</body>
</html>
```

## Locale Support

The class supports any locale string recognized by JavaScript's `toLocaleUpperCase()` and `toLocaleLowerCase()` methods.

### Common Locale Codes

Locale	Language	Region	Example
en	English	General	—
en-US	English	United States	"Müller" → "MÜLLER"
en-GB	English	Great Britain	—
fr	French	General	—
fr-FR	French	France	"café" → "CAFÉ"
de-DE	German	Germany	"größe" → "GRÖSSE"
es-ES	Spanish	Spain	"niño" → "NIÑO"
it-IT	Italian	Italy	—
tr-TR	Turkish	Turkey	"ı" → "I", "i" → "İ"
ru-RU	Russian	Russia	—
ja-JP	Japanese	Japan	—
zh-CN	Chinese	Mainland China	—

## Locale-Specific Behavior

Some locales have special character handling:

```
typescript

import { formatterEvent } from "@wlandabla/form_validator";

const form = document.getElementById("myForm");

// Turkish has special case mapping
formatterEvent.lastnameToUpperCase(form, "tr-TR");
// "ı" (lowercase dotless i) → "I"
// "i" (lowercase i with dot) → "İ"

// German uses special character rules
formatterEvent.lastnameToUpperCase(form, "de-DE");
// "ß" (sharp s) → "SS"

// French preserves accented characters
formatterEvent.lastnameToUpperCase(form, "fr-FR");
// "café" → "CAFÉ"
```

---

## Best Practices

### 1. Initialize Once at Startup

Initialize the formatter once when your application loads:

```
typescript

// app.ts or main.ts
import { formatterEvent } from "@wlandabla/form_validator";

// Global initialization
formatterEvent.init({ locales: "en-US" });
```

### 2. Use Semantic HTML Class Names

Maintain consistent class naming for form fields:

```
html

<!-- Clear, semantic naming -->
<input class="firstname" /> <!-- For first name -->
<input class="lastname" /> <!-- For last name -->
<input class="username" /> <!-- For full name -->
```

### 3. Leverage Data Attributes for Configuration

Use `data-position-lastname` to control name ordering:

```
html

<!-- Names in first-last order (default) -->
<input class="username" data-position-lastname="left">

<!-- Names in last-first order -->
<input class="username" data-position-lastname="right">
```

### 4. Use Event Delegation for Dynamic Content

Apply formatters to `document` to handle dynamically added elements:

```
typescript

import { formatterEvent } from "@wbindabla/form_validator";

// Works with elements added to DOM later
formatterEvent.lastnameToUpperCase(document);
formatterEvent.capitalizeUsername(document);
formatterEvent.usernameFormatDom(document);
```

### 5. Take Advantage of Method Chaining

Chain methods for cleaner, more readable code:

```
typescript

formatterEvent
  .init({ locales: "en-US" })
  .lastnameToUpperCase(form)
  .capitalizeUsername(form)
  .usernameFormatDom(form);
```

### 6. Handle Errors Gracefully

Use try-catch when working with dynamic DOM elements:

```
typescript
```



```
try {
  const form = document.getElementById("dynamicForm");
  if (form) {
    formatterEvent.lastnameToUpperCase(form);
  }
} catch (error) {
  console.error("Formatting initialization failed:", error);
}
```

## 7. Document Custom Separators

When using custom separators, document the expected format:

```
typescript
// Hyphenated first names (e.g., "Jean-Paul")
formatterEvent.capitalizeUsername(
  form,
  "-", // input separator
  "-", // output separator
  "fr-FR"
);
```

---

## Troubleshooting

### Issue: Formatting not being applied

**Cause:** Input field has incorrect class name or is not within the specified container

#### Solution:

```
typescript
// Verify the element exists
console.log(document.querySelector("input.lastname"));

// Use document if unsure about container
formatterEvent.lastnameToUpperCase(document);
```

### Issue: Locale not working as expected

**Cause:** Invalid locale string or unsupported browser

#### Solution:

```
typescript
```

```
// Test locale support
console.log("é".toLocaleUpperCase("fr-FR")); // Should output "É"

// Use fallback locale
formatterEvent.init({ locales: ["fr-FR", "en"] });
```

### Issue: jQuery not found

**Cause:** jQuery library not loaded before FormFormattingEvent

### Solution:

```
html

<!-- Load jQuery BEFORE your script -->
<script src="https://code.jquery.com/jquery-3.6.0.min.js"></script>
<script type="module">
  import { formatterEvent } from "@wlandabla/form_validator";
  // Now safe to use
</script>
```

### Issue: Multiple event listeners being attached

**Cause:** Calling formatter method multiple times on same element

### Solution:

```
typescript

// The library handles this - it removes old listeners with .off()
// before attaching new ones, so multiple calls are safe
formatterEvent.lastnameToUpperCase(form);
formatterEvent.lastnameToUpperCase(form); // Safe - old listener removed first
```

### Issue: Empty fields being processed

**Cause:** Expected behavior - empty fields are logged but not processed

### Solution:

```
typescript

// This is normal - empty fields are skipped with a log message:
// "The last name input field is empty, uppercase formatting ignored."

// No special handling needed
```

## Package Information

- **Package Name:** @wlindabla/form\_validator
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  - **License:** See package.json
- 

## Support & Contact

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- 

## Version History

Version	Date	Changes
1.0.0	2024	Initial release with default export
0.9.0	2024	Beta release

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## Related Documentation

- [jQuery Event Handling](#)
  - [JavaScript Locale Strings](#)
  - [HTML Form Elements](#)
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