

@wlindabla/form_validator - FormFormattingEvent API Documentation

Overview

`FormFormattingEvent` is a singleton class from the `@wlindabla/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
```

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 "@wlindabla/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 "@wlindabla/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
martin	MARTIN
garcía	GARCÍA
müller	MÜLLER

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 "@wlindabla/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 "@wlindabla/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 "@wlindabla/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 "@wlindabla/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 "@wlindabla/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 "@wlindabla/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>

```

```

>
</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 "@wlindabla/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" → "GRÖSSZE"
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 "@wlindabla/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 "@wlindabla/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 "@wlindabla/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,
  "-",
  "-",
  "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 "@wlindabla/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
 - **Author:** AGBOKOUDJO Franck
 - **Company:** INTERNATIONALES WEB APP & SERVICES
 - **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

Related Documentation

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

Last Updated: 2024

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Status: Production Ready ✓