

# ~~LIVEVIEW~~: BEST PRACTICES FOR BUILDING REAL-TIME INTERACTIVE INTERFACES



herminiotorres



herminiotorres

simplebet™

# AGENDA

1. Foundation
2. Single Source of Truth (SSOT)
3. Async updates a LiveComponent
4. Context
5. Scoped CSS

# DISCLAIMER

Context and Scoped CSS using Surface-UI

**FOUNDATION**

# FOUNDATION

1. Loading *twice* on mount/3 - (demo | code)
2. Split into *two phases* before and after the socket is *connected?* - (demo | code)
3. *Prevent blocking* the LiveView process until it *die* - (demo | code)
4. Using *assign\_async* - (demo | code)
5. Using *start\_async* - (demo | code)

**SINGLE SOURCE  
OF TRUTH (SSOT)**

# SSOT

- *Avoiding* updates for those who are not the *data owner*.
- It creates *data inconsistencies* when there are other components that depend on.
- It should *always request* who is the *owner* to perform updates.

# SSOT

- Assign to the new value in the socket into a Component. [demo](#)
- [code](#)



# SSOT

- Sending an internal message to the socket to assign the new value. [demo](#)
- [code](#)

# **ASYNCR UPDATE/2**

## **A**

### **LIVECOMPONENT**

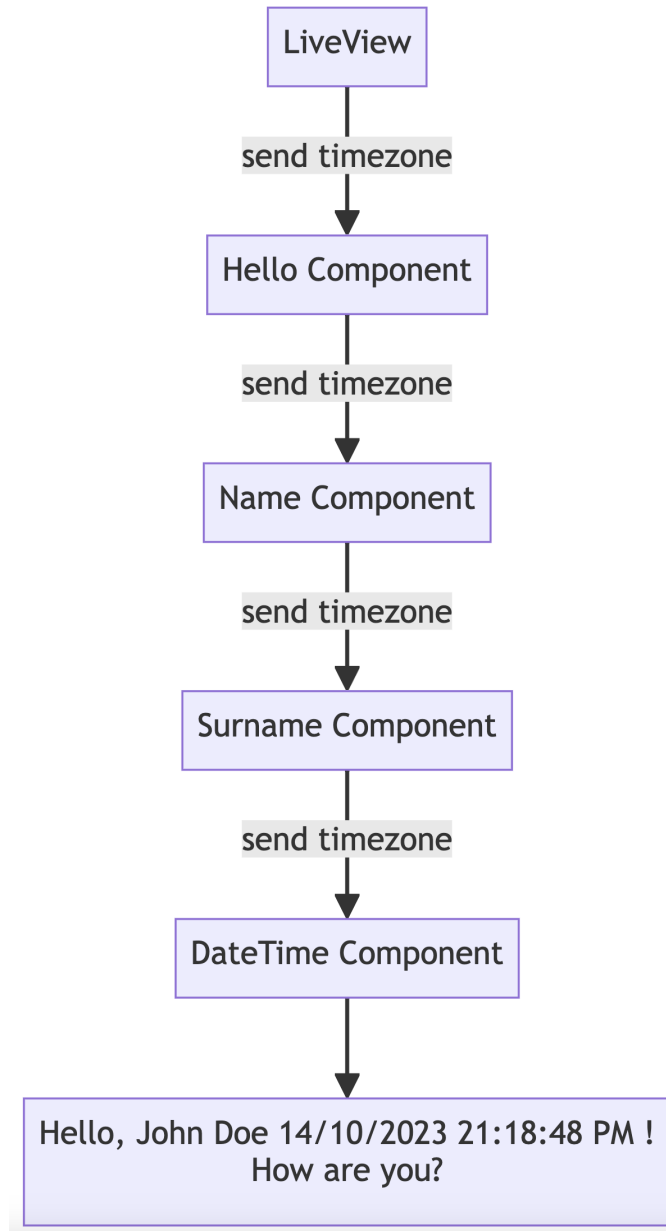
# SEND\_UPDATE/2

- Using *send\_update/2* to update the component.
- It is useful for updating a component that *manages its own state*.
- *Leaking internal details* of the state is problematic.
- *Any change* in the shape of the state might *break* the code.
- (demo | code | code)

# SEND\_UPDATE/2

- The internal state should only be performed from *the component's public API*.
- (demo | code | code)

**CONTEXT**



# THE CONCEPT

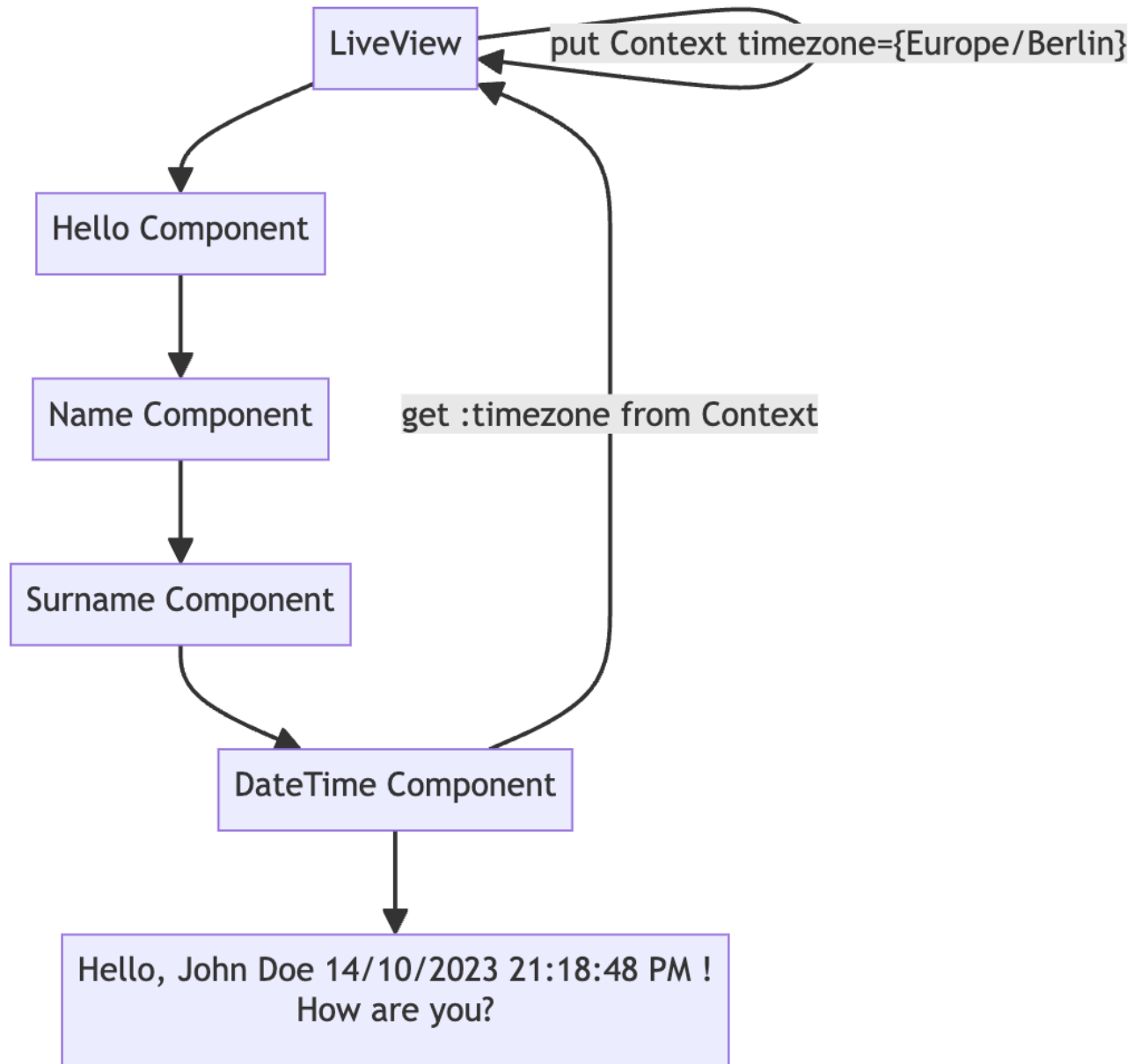
Avoid Prop drilling.

It is the process of passing props from one to another, even when intermediate components do not use or need those props.

# CONTEXT

- Select timezone to shift to some zone - [demo](#)
- Put timezone in the context - [code](#)
- Get timezone from the context - [code](#)





# SCOPED CSS

# THE CONCEPT

It is to prevent CSS rules defined within a component from affecting elements outside that component. This helps prevent style conflicts.

# SCOPED CSS

- Toast message in LiveView - [demo](#)
- Apply CSS Style in LiveView - [code](#)

# SCOPED CSS

- Toast message in Surface - [demo](#)
- Apply CSS Style in Surface - [code](#)
- Scope CSS Style in Surface - [code](#)
- Scope CSS Style in Surface - [code](#)

```
phx-F46sxr54S8f7Wgjk mount: - utils.js:28  
▶ {0: {...}, 1: {...}, 2: {...}, 3: ' phx-change="validate"', s: Array(5)}
```

```
phx-F46sxr54S8f7Wgjk update: - utils.js:28
```

```
▼ {0: {...}, 1: {...}, 2: {...}} ⓘ  
  ▼ 0:  
    0: " class=\"my-4 px-6 py-4 bg-green-200 border border-green-600\""  
    1: " class=\"font-semibold text-2xl text-green-600\""  
    2: " class=\"font-light text-sm italic text-green-800\""  
    ▶ [[Prototype]]: Object  
  ▼ 1:  
    0: " data-status=\"success\""  
    1: " data-status=\"success\""  
    2: " data-status=\"success\""  
    ▶ [[Prototype]]: Object  
  ▼ 2:  
    0: " data-status=\"success\""  
    1: " data-status=\"success\""  
    2: " data-status=\"success\""  
    ▶ [[Prototype]]: Object  
  ▶ [[Prototype]]: Object
```

```
▼ <div s-6th6x data-status="success" class="toast"> == $0  
  <h2 s-6th6x data-status="success" class="title"> That show's called a  
  pilot. </h2>  
  <p s-6th6x data-status="success" class="subtitle"> Well, the way they make  
  shows is, they make one show. </p>  
</div>
```

**OBRIGADO**  
**DANKE**  
**THANK YOU**



herminiotorres



herminiotorres

simplebet™