

# FORMS 201

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*More where that came from*

# TRAJECTORY

- **How to get data**
  - **Controlled components**
  - **Uncontrolled components**
- **Managing form state**

# HOW TO GET DATA

# HOW TO GET DATA

- **Collect from the change event while users are typing**
  - Place the data on state
  - Able to calculate validations with each change
- **Collect from the submit event**
  - Does not keep any form data on state
  - Unable to perform any inline validation

# CONTROLLED/UNCONTROLLED

- ***Controlled* form components have their values directly controlled by state**
  - Changes to the value on state update what you see in the form
  - Changes to what you see in the form update the value on state
- ***Uncontrolled* form components do not**
  - Changes to what you see in the form update the value on state
  - ...But NOT the other way around



# UNCONTROLLED COMPONENT

```
render () {  
  <form onSubmit={this.handleSubmit}>  
    <input name='username' onChange={this.handleChange} />  
    <button type='submit'>Submit</button>  
  </form>  
}
```



# CONTROLLED COMPONENT

```
render () {  
  <form onSubmit={this.handleSubmit}>  
    <input name='username' onChange={this.handleChange} value={this.state.username} />  
    <button type='submit'>Submit</button>  
  </form>  
}
```

# CONTROLLED/UNCONTROLLED

- **Controlled components**

- MUCH easier to programmatically handle your form's data
- A bit tedious to set up initially

- **Uncontrolled components**

- No need to use `this.state` to manage form data
- Harder to deal with



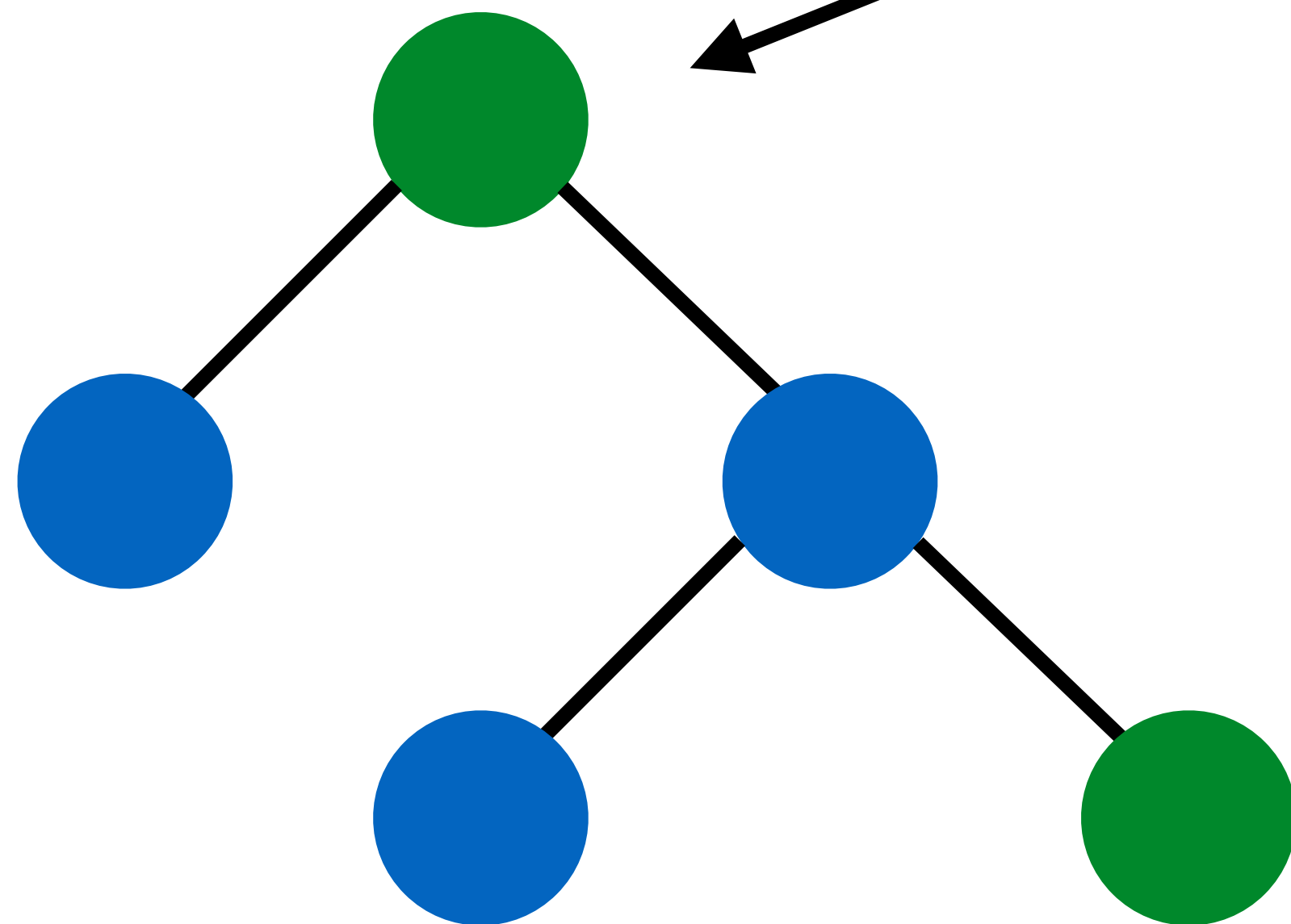
# WHERE DOES FORM STATE BELONG?

# APP STATE V LOCAL STATE

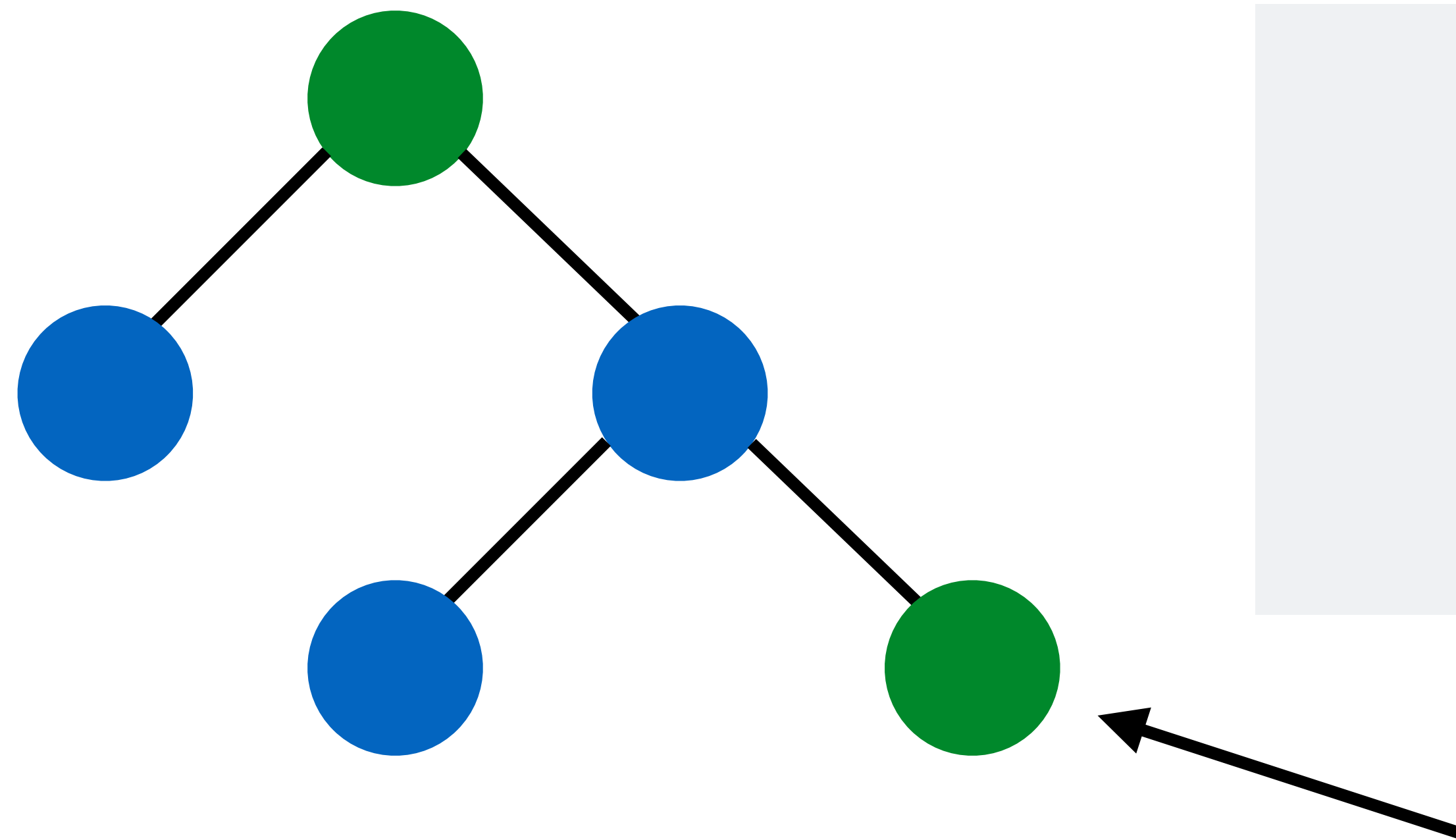
- **Many components in your app might need access to who the user is - this is known as application state**
  - Should be managed high up on your state tree
- **Usually, only the form itself needs to know about the data inside it**
  - Can be managed lower down



Holds important application state



```
this.state = {  
  user: {},  
  albums: [],  
}
```



```
this.state = {  
  username: '',  
  address: ''  
}
```

Holds form data

