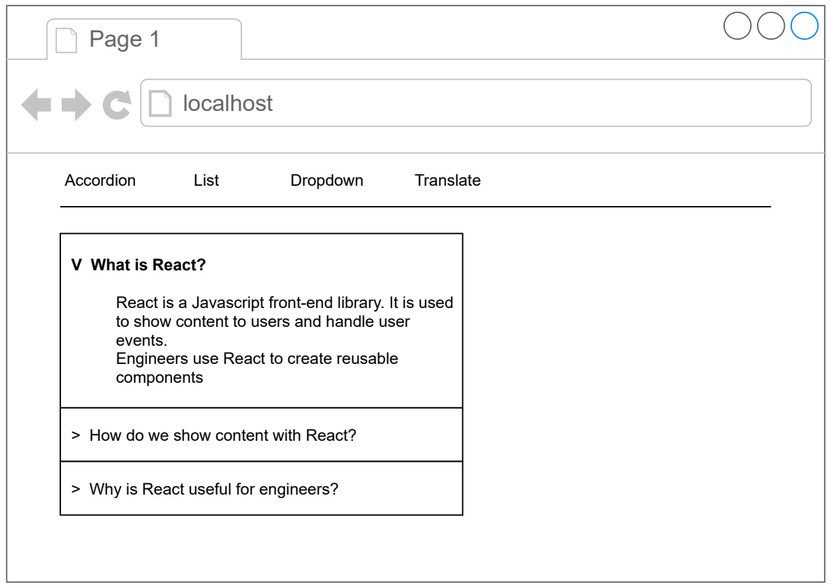
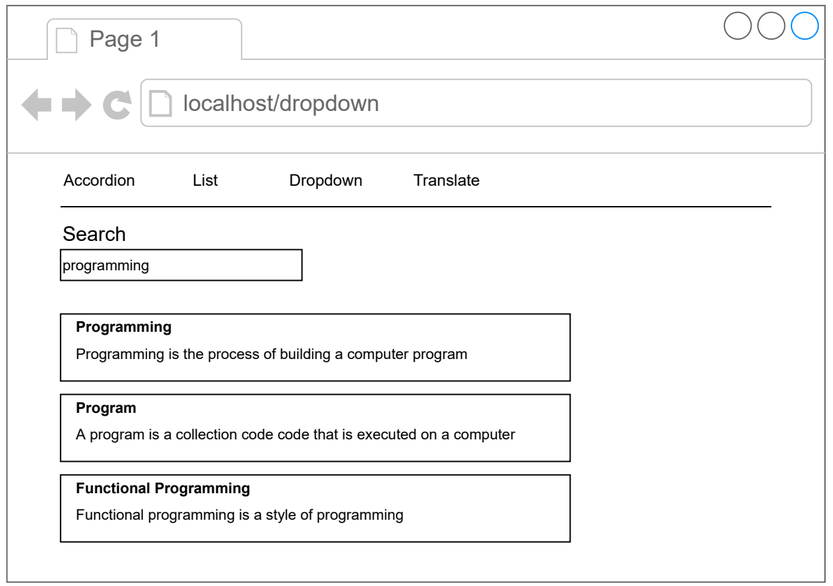
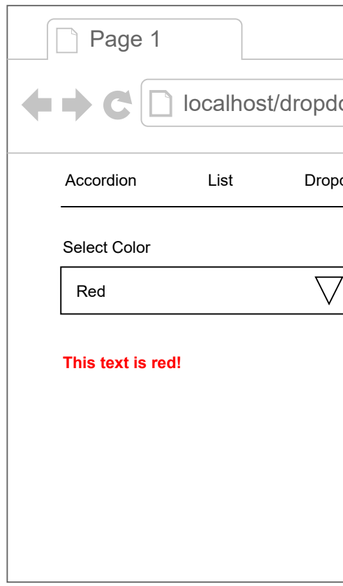
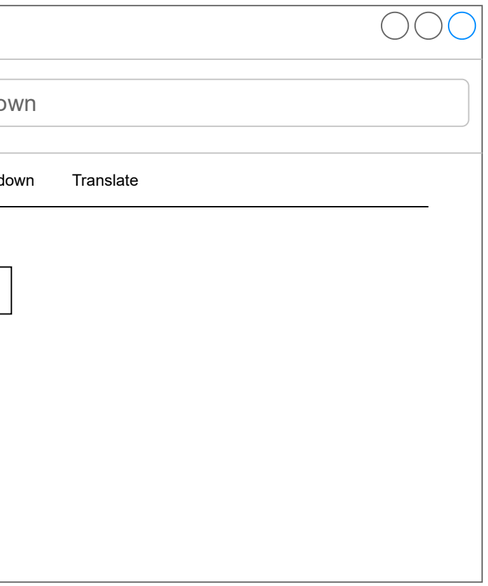
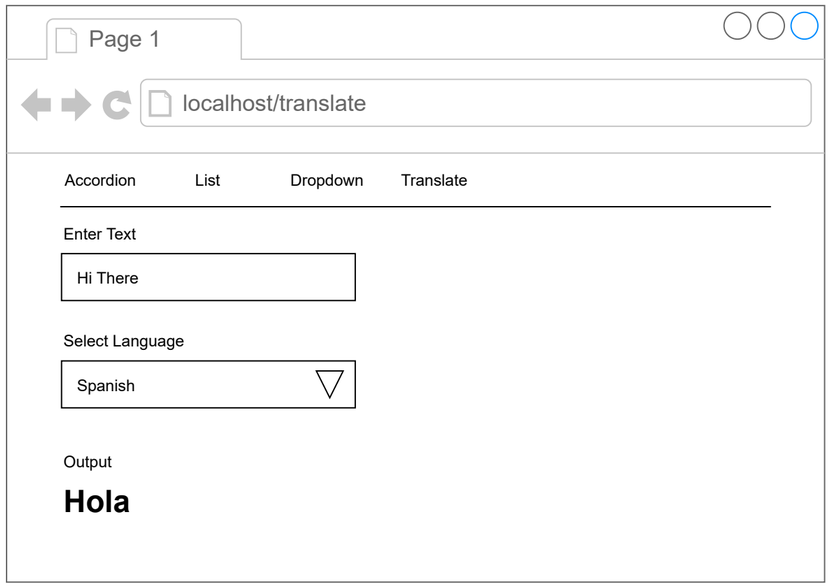
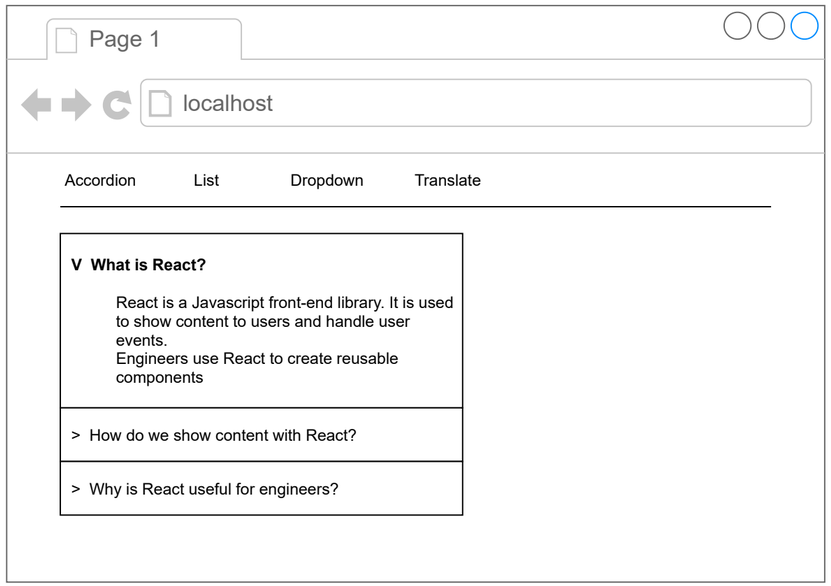

Page 1
localhost
Accordion
List
Dropdown
Translate
V What is React?
React is a Javascript front-end library. It is used to show content to users and handle user events.
Engineers use React to create reusable components
> How do we show content with React?
> Why is React useful for engineers?

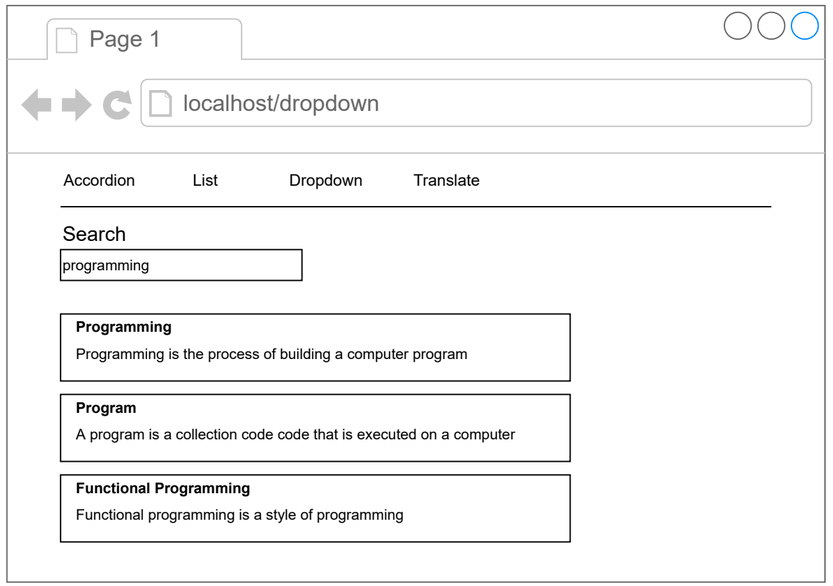

Page 1
localhost/dropdown
Accordion
List
Dropdown
Translate
Search
programming
Programming
Programming is the process of building a computer program
Program
A program is a collection code code that is executed on a computer
Functional Programming
Functional programming is a style of programming

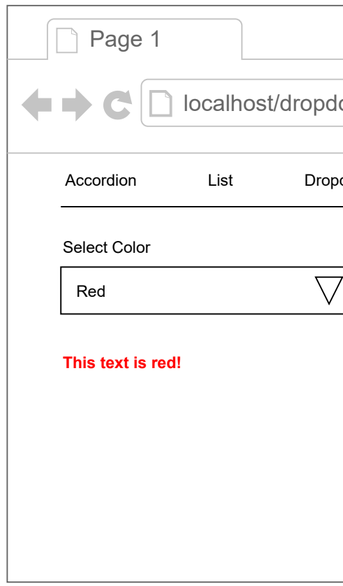

Page 1
localhost/dropdo
Accordion
List
Drop
Select Color
Red
This text is red!


own
down
Translate


Page 1
localhost/translate
Accordion
List
Dropdown
Translate
Enter Text
Hi There
Select Language
Spanish
Output
Hola



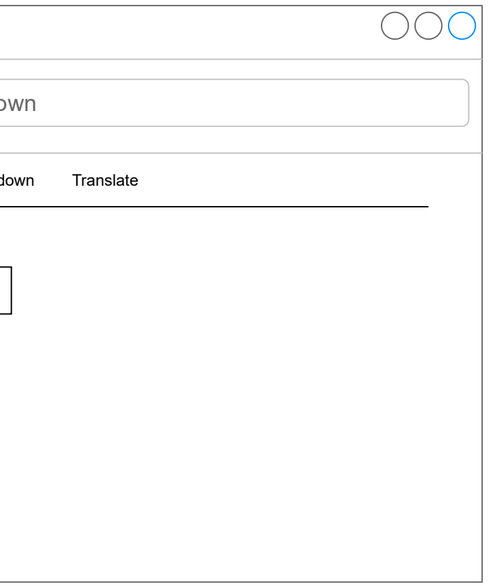




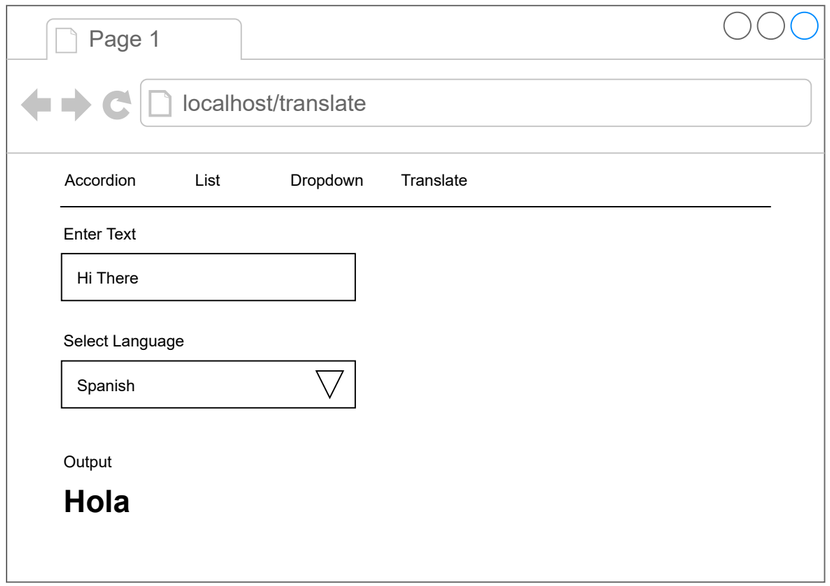
useState

useState useEffect

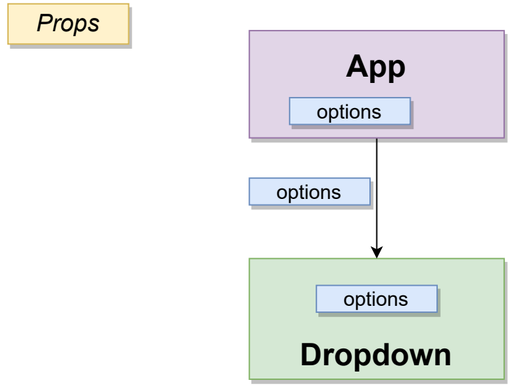
useState



useEffect useRef

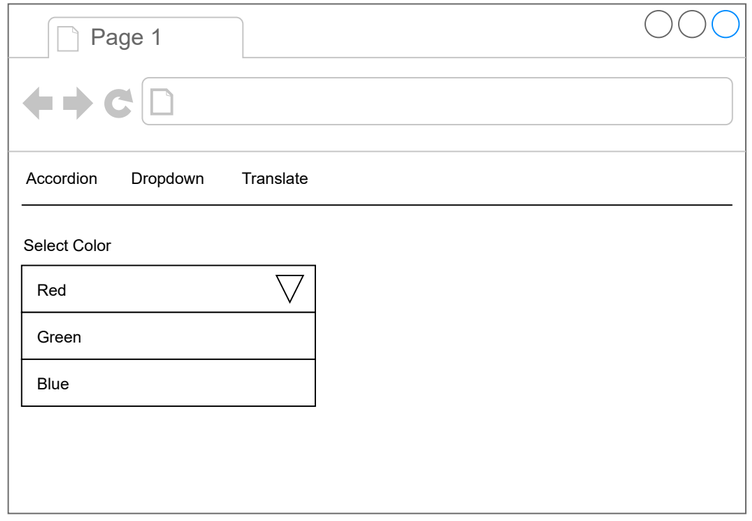


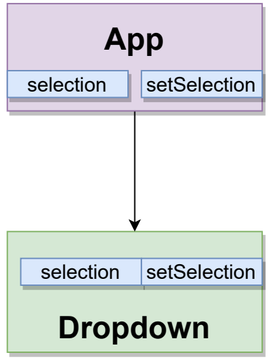
useState useEffect useRef

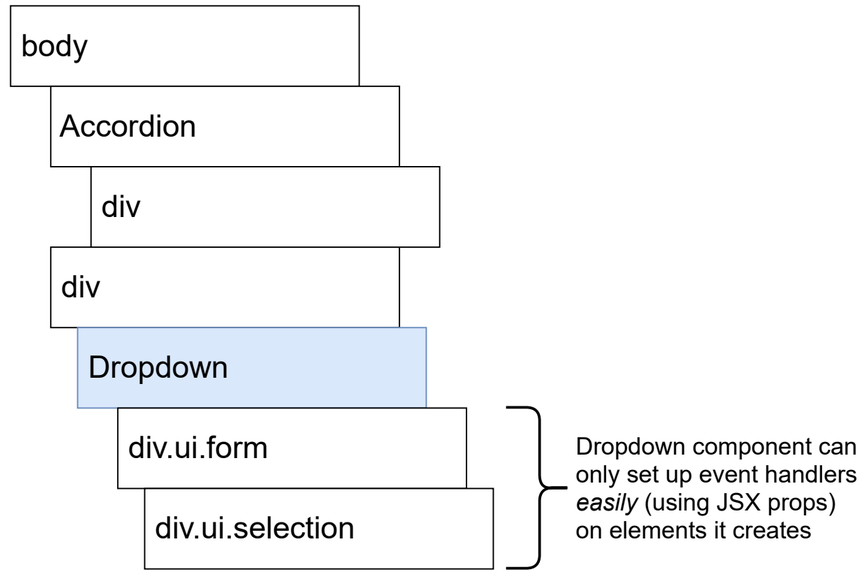

Props
App
options
options
options
Dropdown

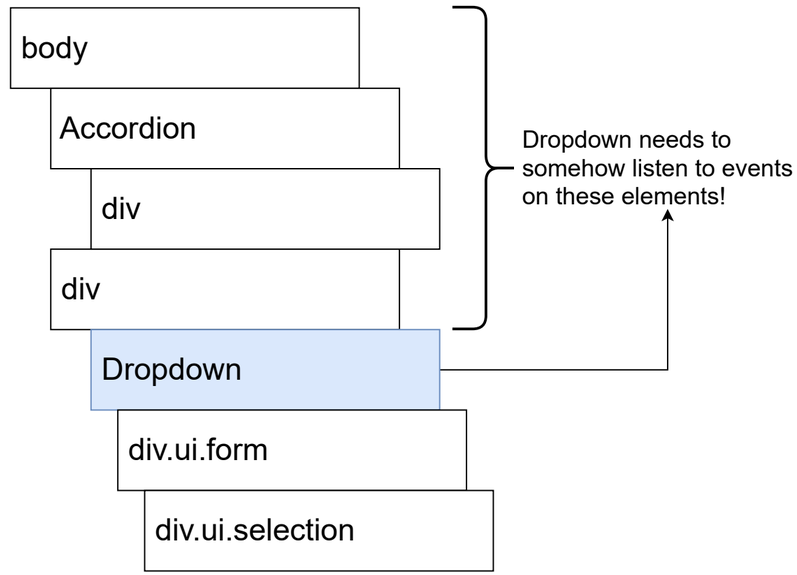
options

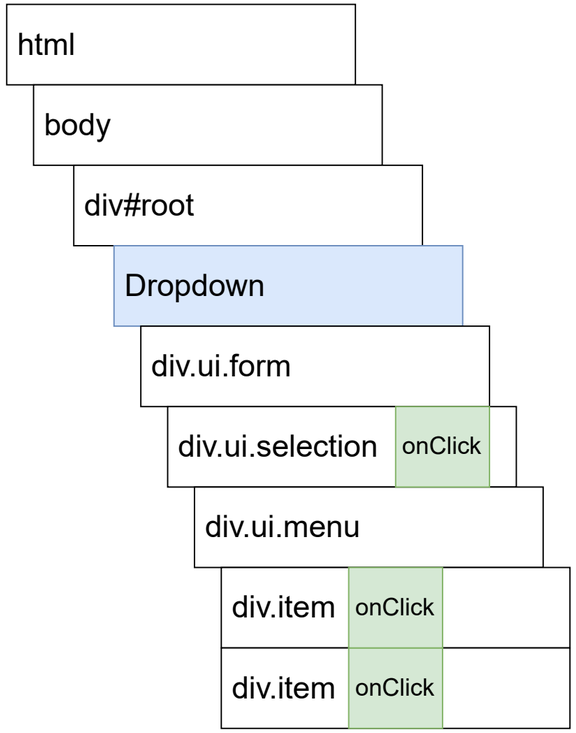
```
{
  label: 'The Color Red',
  value: 'red'
}
{
  label: 'The Color Green',
  value: 'green'
}
{
  label: 'A Shade of Blue',
  value: 'blue'
}
```




App
selection
setSelection
selection
setSelection
Dropdown


body
Accordion
div
div
Dropdown
div.ui.form
div.ui.selection
Dropdown component can only set up event handlers *easily* (using JSX props) on elements it creates


body
Accordion
div
div
Dropdown
div.ui.form
div.ui.selection
Dropdown needs to
somehow listen to events
on these elements!


html
body
div#root
Dropdown
div.ui.form
div.ui.selection
onClick
div.ui.menu
div.item
onClick
div.item
onClick

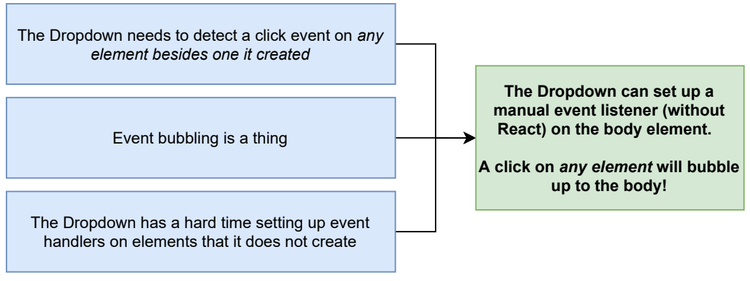
What We've Got So Far

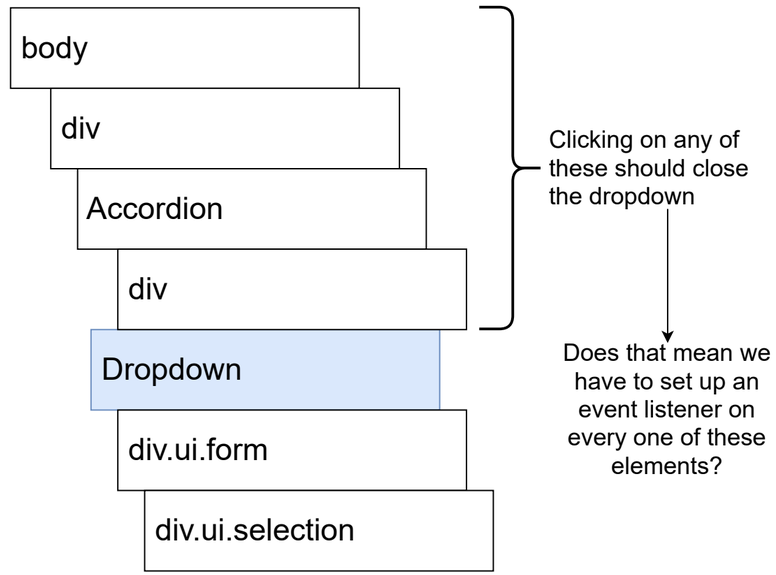
The Dropdown needs to detect a click event on *any element besides one it created*

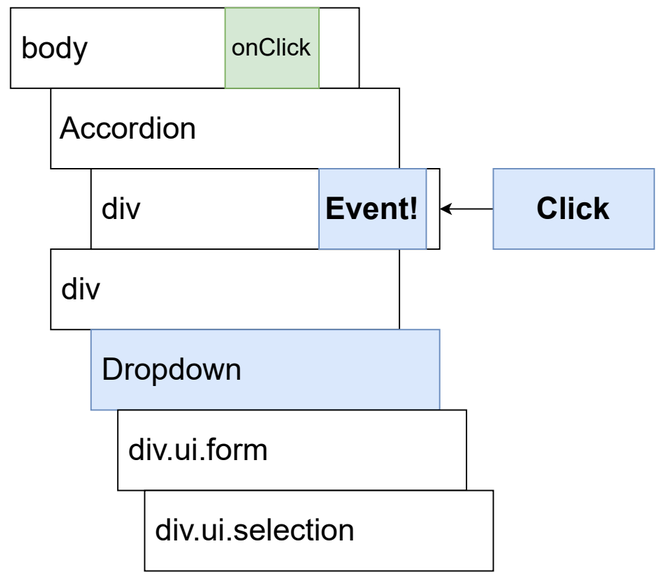
The Dropdown has a hard time setting up event handlers on elements that it does not create

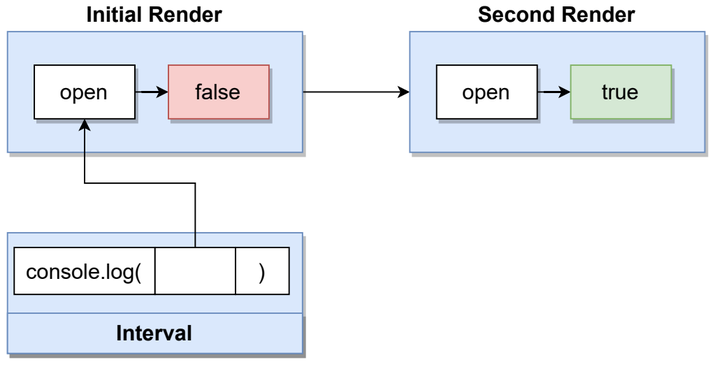
Event bubbling is a thing

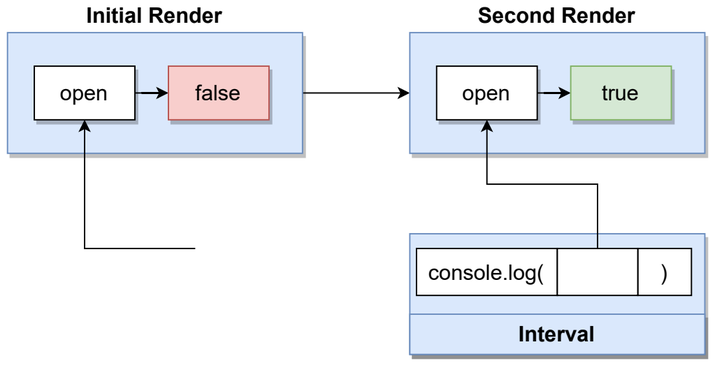
What We've Got So Far

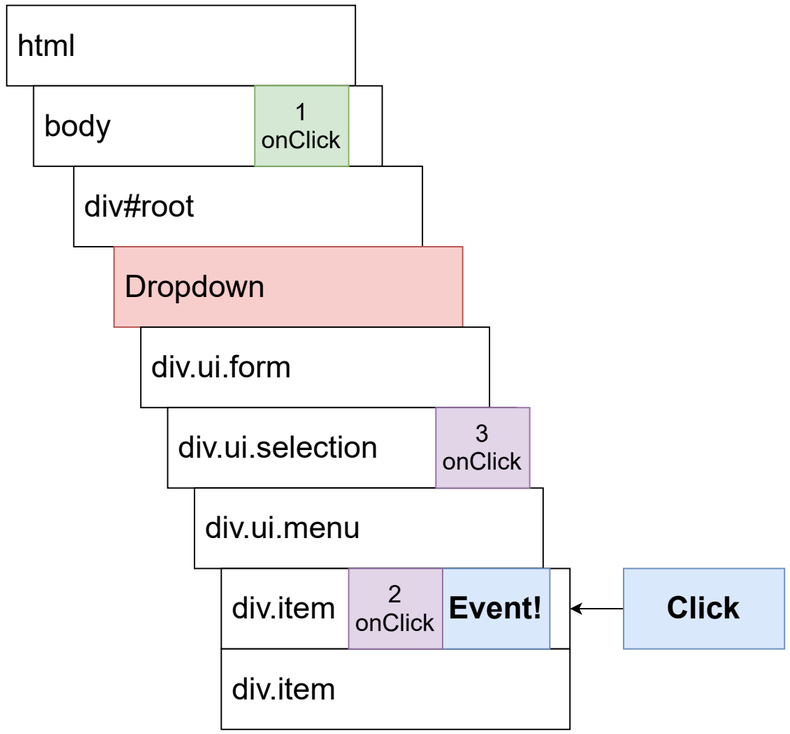


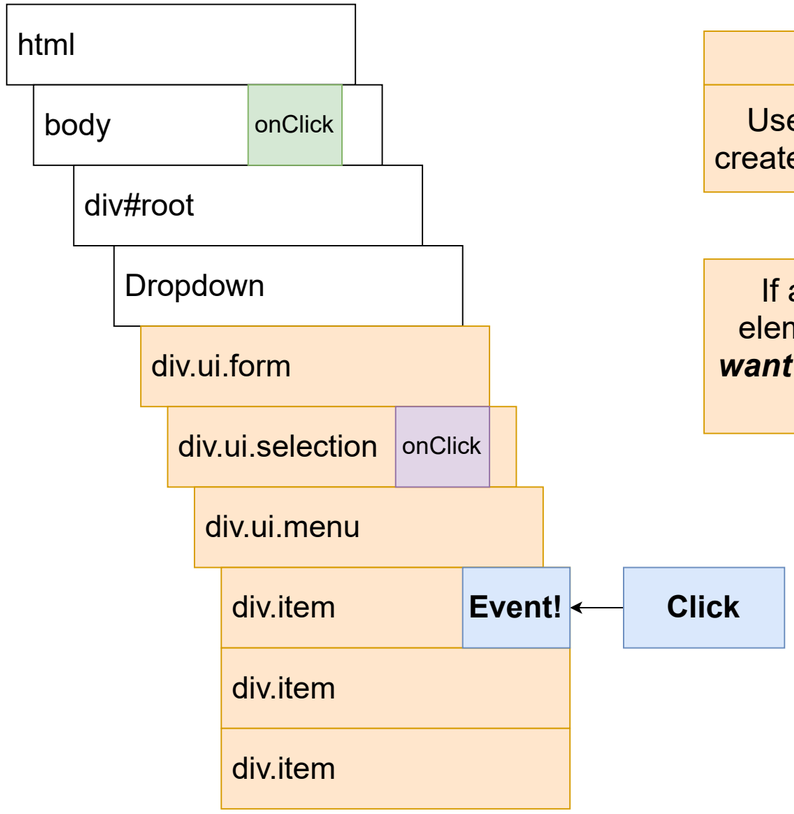

body
div
Accordion
div
Dropdown
div.ui.form
div.ui.selection
Clicking on any of these should close the dropdown
Does that mean we have to set up an event listener on every one of these elements?


body
onClick
Accordion
div
Event!
Click
div
Dropdown
div.ui.form
div.ui.selection


Initial Render
Second Render
open
false
open
true
console.log(
)
Interval


Initial Render
open
false
Second Render
open
true
console.log(
)
Interval

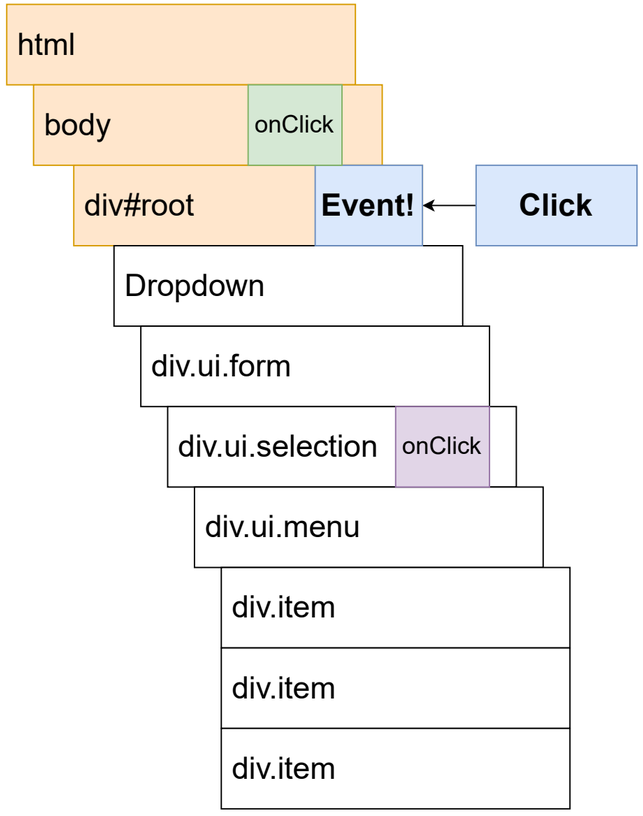

html
body
1
onClick
div#root
Dropdown
div.ui.form
div.ui.selection
3
onClick
div.ui.menu
div.item
2
onClick
Event!
Click
div.item



Scenario #1

User clicks on an element that is created by the Dropdown component

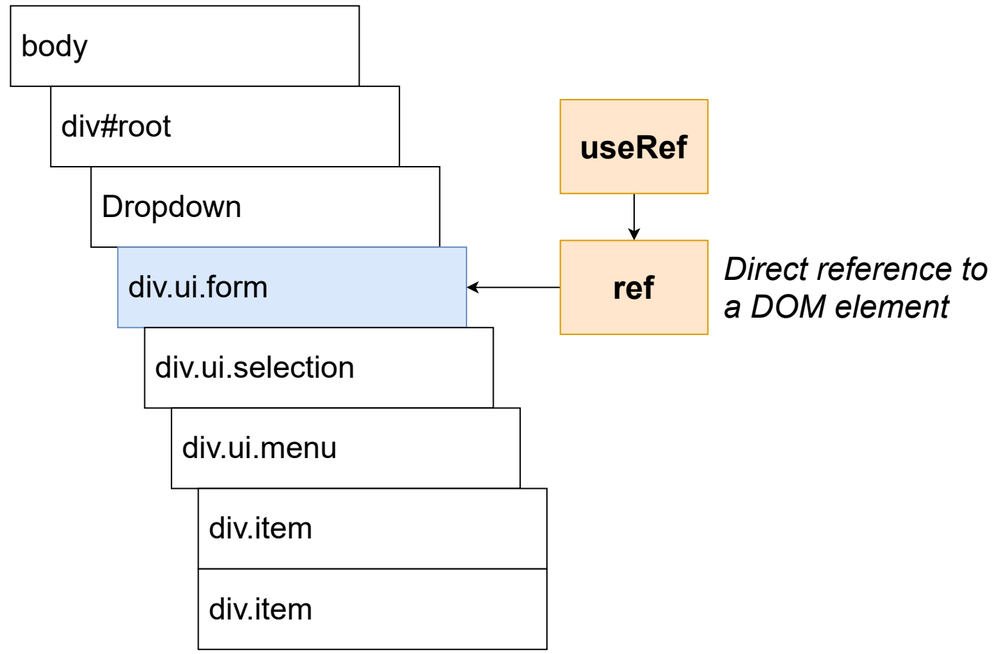
If a user clicks on one of these elements, then we probably ***don't want the body event listener to do anything***



Scenario #2

User clicks on any element *besides the ones created by the Dropdown*

If a user clicks on any of these elements, we **do want the body event listener to close the dropdown**


body
div#root
Dropdown
div.ui.form
div.ui.selection
div.ui.menu
div.item
div.item
useRef
ref
Direct reference to
a DOM element