

# Molecules

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**Cory House**

@housecor | reactjsconsulting.com



# The Plan



**What's a molecule?**

**Let's code!**

- TextInput
- PasswordInput

# Molecules

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Group of atoms, bonded together

Simple, functional, reusable components



Molecules should also have a  
single (*but higher level*)  
responsibility.

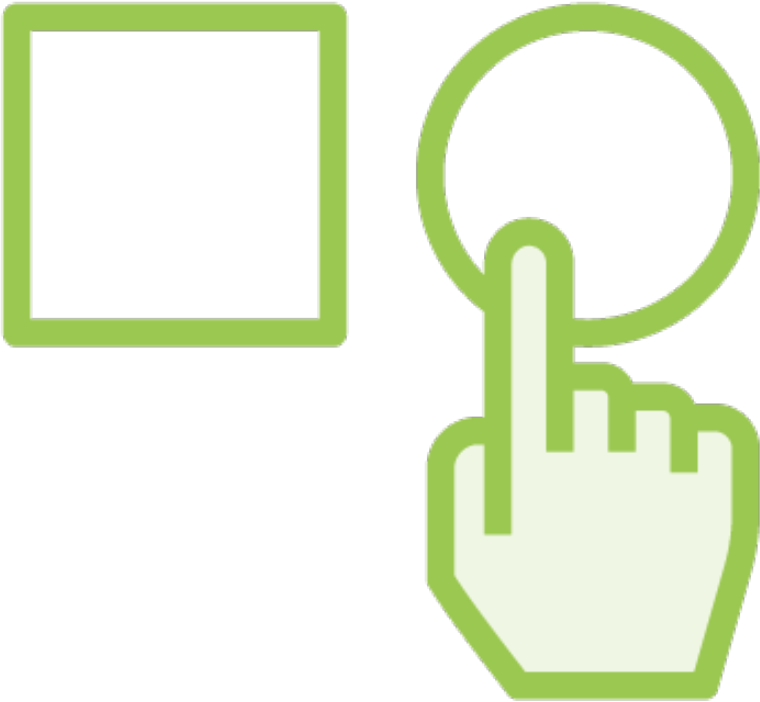


“Water molecules and hydrogen peroxide molecules have their own unique properties and behave quite differently, even though they’re made up of the same atomic elements”

**Brad Frost**



# Form Decisions



Horizontal or vertical?

Errors at top, by field, or both?

Show errors on blur or submit?

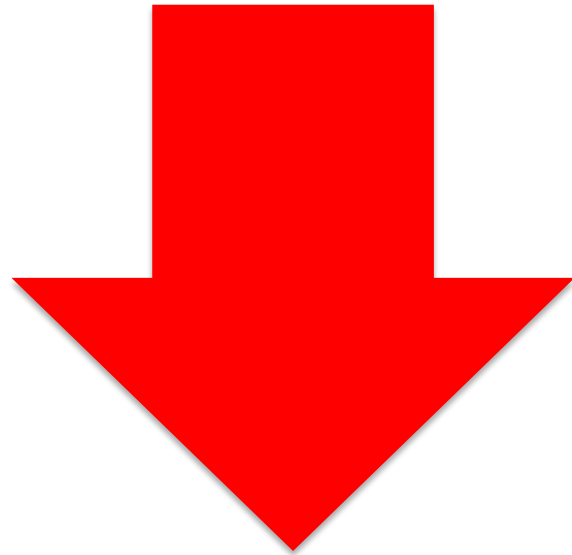
Mark required fields? If so, how?

Tie label to input via htmlFor?

Padding below each input?



**Consistency**



**Decision  
Fatigue**





# Demo



## Create Molecules

- TextInput
  - Integrated label
  - Associate label to input
  - Required field indicator
  - Enforced layout
- PasswordInput
  - Display password quality
  - Toggle password visibility



# TextInput Opinions

Designed for *private* use



Email \*

Email is required.

*Could add...*

Textarea support

Automatic placeholder

Validation onBlur

Vertical layout

Padding below

Required htmlFor for accessibility

Red asterisk if required

Errors in red below the input



# Demo



## PasswordInput



What you make *unconfigurable*  
is as important as what you  
make configurable.



# PasswordInput

## Flexible

Password quality bar visibility

Toggle show password icon

Password quality algorithm

## Fixed

Password quality bar width

Eye icon



# Summary



## Molecule: Group of atoms

- Increase consistency
- Reduce decision fatigue
- Encapsulate opinions

## Our molecules:

- TextInput
- PasswordInput (specialization pattern)

**Next up: Organisms**

