

Animating Components

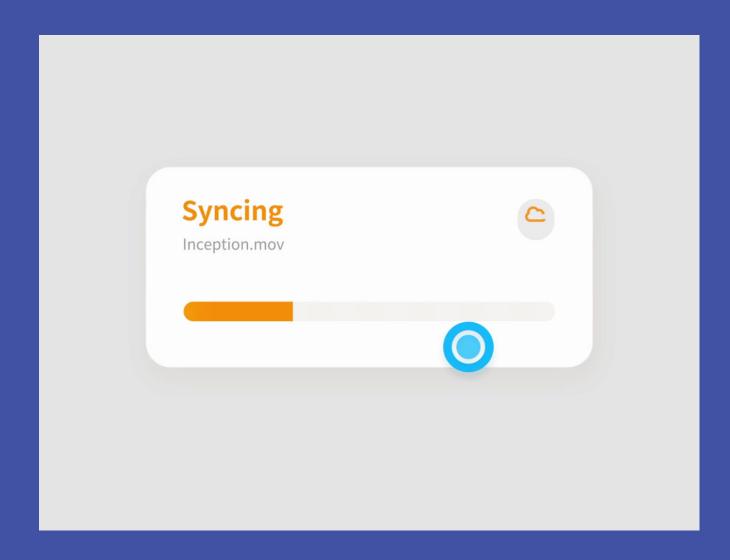
Now that we've built our components, let's animate them with react-spring.

Microinteractions

Micro-interactions are small animations whose purpose is to delight the user by providing feedback in regards to a task or inform the user about the status of a process or task.

Perceived performance We can alter our user's sense of time with animations and this

We can alter our user's sense of time with animations and this can work in our favor if our performance budget needs some refactoring.

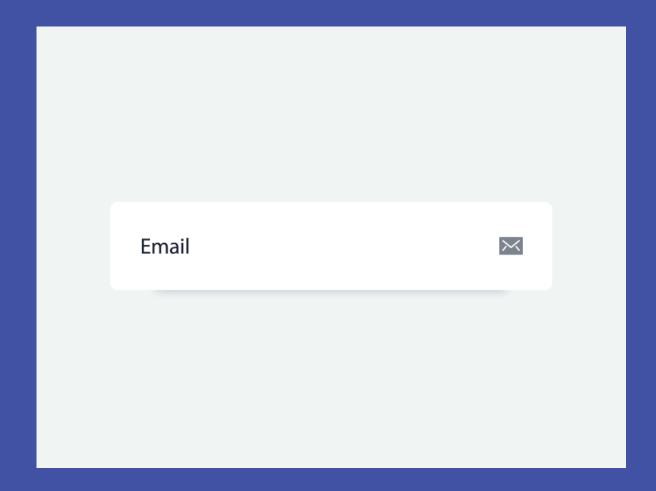


Task status

As a user's request is processing or as their data is loading, we can use a micro-interaction to inform them of its status.

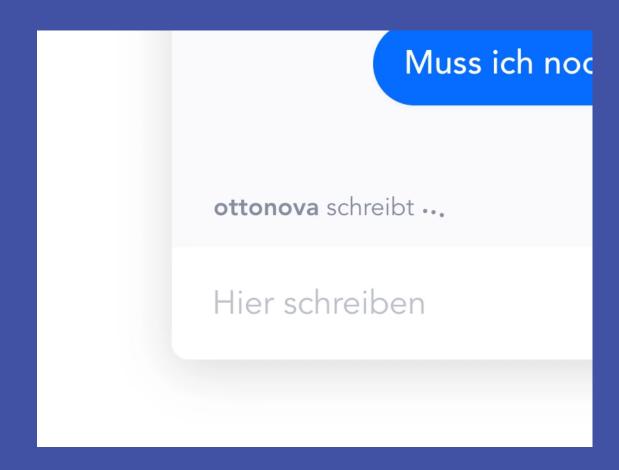


State change
If a user is filling out a form and incorrectly enters their password, we can use micro-interactions to illustrate that this form needs to be fixed prior to submission.



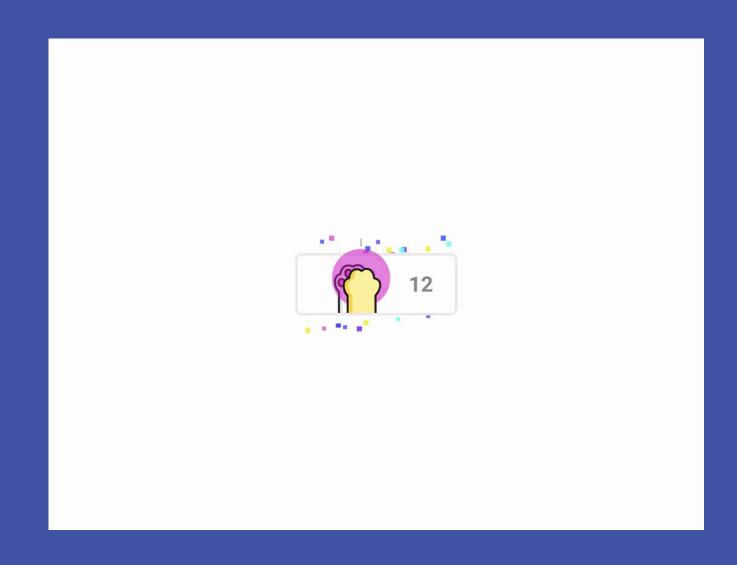
Draw attention

Using micro-interactions to capture a user's attention and indicate that there is something of importance is a useful tool for on-boarding or to indicate someone is typing.



Crente habits

Social media applications are really good at getting their uses to form habits, and they do so with micro-interactions.



Delight users
Micro-interactions can bring joy to our users by enhancing their experience.



ACCESSIBILITY



Your animations must be accessible.

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INTENTIONALITY



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RELATABILITY

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PERFORMANCE

Never make your users wait for an animation.

renct-spring

react-spring is a hooks-based and a physics-based animation library, and allows you to create complex animations.

```
const animation = useSpring({
  from: { opacity: 0, transform: `translateY(-200%)` },
  to: { opacity: 1, transform: `translateY(0)` }
});
```

```
const animation = useSpring({
 to: {
   opacity: 1,
   transform: `translateY(0%)`
});
```

```
const animation = useSpring({
  opacity: 1,
  transform: `translateY(0%)`
});
```

```
const [showModal, setShowModal] = useState(false);
const animation = useSpring({
   opacity: showModal ? 1 : 0,
   transform: showModal ? `translateY(0%)` : `translateY(-200%)
});
```

<animated.div></animated.div> <animated.h1></animated.h1>

<animated.div style={animation}></animated.div>

```
import React, { useState } from 'react';
import { animated, useSpring } from 'react-spring';
const Modal = () => {
   const [showModal, setShowModal] = useState(false);
   const animation = useSpring({
       opacity: showModal ? 1 : 0,
       transform: showModal ? `translateY(0%)` : `translateY(-200%)
   });
   return <animated.div style={animation}>...</animated.div>
export default Modal;
```

Fnde in

http://bit.ly/3cHj8gC

nsetransition

Transition an array of elements.

```
const [items, set] = useState([...])
const transitions = useTransition(items, item => item.key, {
    from: { opacity: 0 },
    enter: { opacity: 1 },
    leave: { opacity: 0 }
})

return transitions.map(({ item, props, key }) =>
    <animated.div key={key} style={props}>{item.text}</animated.div>
)
```

nsetransition

Toggle between two different elements.

nsetransition

Mount and un-mount one element from the DOM.

```
const [show, set] = useState(false);
const transitions = useTransition(show, null, {
  from: { position: "absolute", opacity: 0 },
  enter: { opacity: 1 },
  leave: { opacity: 0 }
});
return transitions.map(
  ({ item, key, props }) =>
    item && (
      <animated.div key={key} style={props}>
        I'm mounted!
      </animated.div>
);
```

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