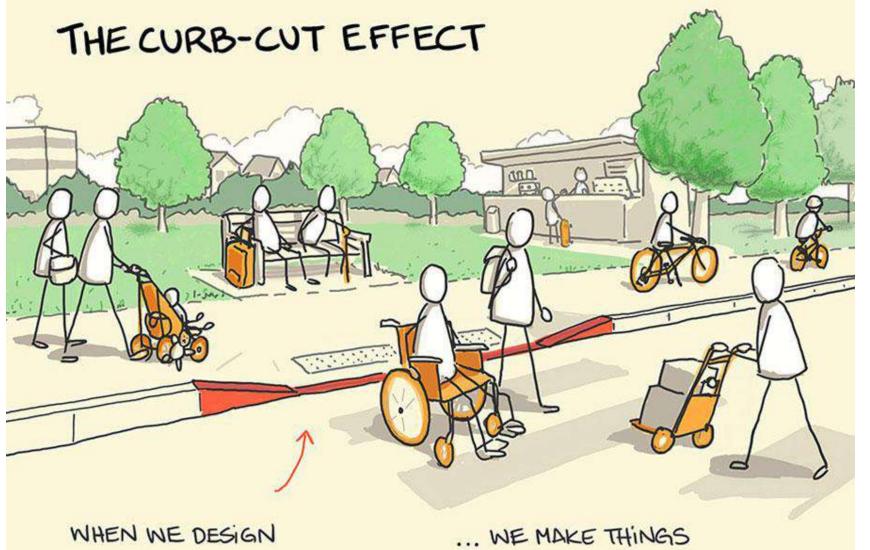
Making <form>s accessible

Tim Damen

- FE Dev
- Accessibility guild lead





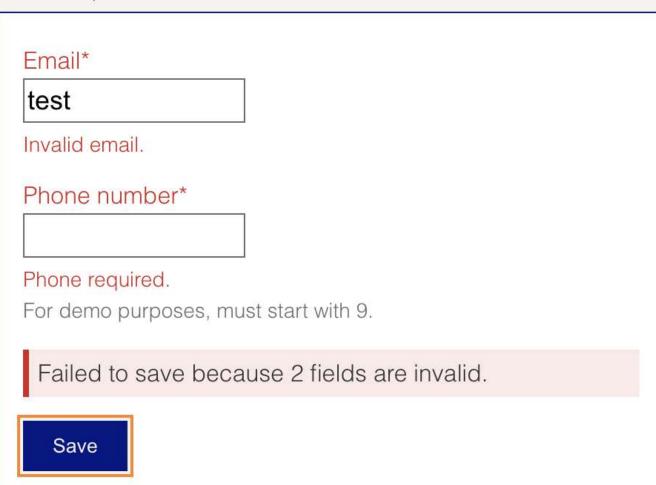
WHEN WE DESIGN FOR DISABILITIES ... WE MAKE THINGS BETTER FOR EVERYONE

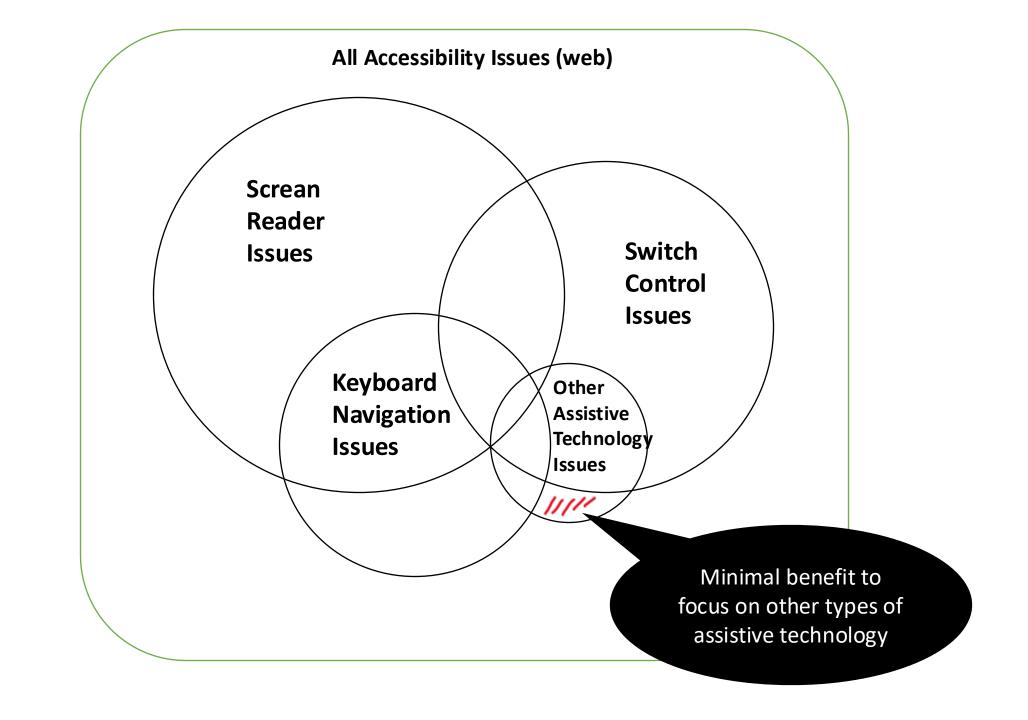
sketchplanations

Form Accessibility

Field validated on submit

*Fill the required fields







<label>l

<input t

Label not linked to input

*Fill the required fields

Email*	
Phone number*	Sleep
Phone number must start with 06.	
Save	



Label linked to input

*Fill the required fields

Email*	Wake up
Phone number*	Sleep
For demo purposes, must s	tart with 06.

<label f <input i



<label for="phone">Phone number*</label>
<input id="phone" type="phone"/>





*Fill the required fields

Phone number*

imes Phone number*, edit text



```
<label for="phone">
Phone number<span aria-hidden="true">*</span>
</label>
<input type="phone" id="phone"/>
```





*Fill the required fields

Phone	number*	

× Phone number, edit text



```
<label for="phone">
  Phone number<span aria-hidden="true">*</span>
</label>
<input type="phone" id="phone" aria-required="true"/>
```





*Fill the required fields

Phone	number*	

× You are currently on a button, inside web content. To click this button, press Control-Option-Space. To exit this web area, press Control-Option-Shift-Up Arrow.



```
<label for="phone">
  Phone number<span aria-hidden="true">*</span>
</label>
<input
  type="phone"
  id="phone"
  aria-required="true"
/>
Phone number must start with 06.
```









Phone number*	

Phone number must start with 06.

You are currently on a button, inside web content. To click this button, press Control-Option-Space. To exit this web area, press Control-Option-Shift-Up Arrow.



<label for="phone">

```
Phone number<span aria-hidden="true">*</span>
</label>
<input
type="phone"
id="phone"
aria-required="true"
aria-describedby="phoneHint"
/>

pid="phoneHint">Phone number must start with 06.
```





Phone number*	

Phone number must start with 06.

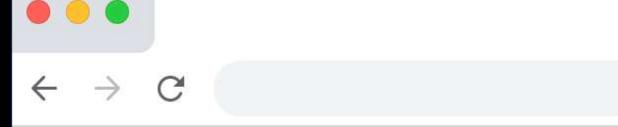
More Content

Phone number must start with 06., description

 \times More Content menu, 1 item



```
<label for="phone">
Phone number<span aria-hidden="true">*</span>
</label>
<input
    type="phone"
    id="phone"
    aria-required="true"
    aria-describedby="phoneHint"
/>
Phone number required.
q id="phoneHint">Phone number must start with 06.
```



Phone number*

Phone number required.

For demo purposes, must start

More Content

Phone number must start with 06., description

imes More Content menu, 1 item



```
<label for="phone">
Phone number<span aria-hidden="true">*</span>
</label>
<input
    type="phone"
    id="phone"
    aria-required="true"
    aria-invalid="true"
    aria-describedby="phoneHint"
/>
Phone number required.

Phone number must start with 06.
```







Phone number*

Phone number required.

For demo purposes, must start with 06.

 \times Phone number, required invalid data, edit text



```
<label for="phone">
Phone number<span aria-hidden="true">*</span>
</label>
<input
    type="phone"
    id="phone"
    aria-required="true"
    aria-invalid="true"
    aria-describedby="phoneHint phoneError"
/>

pid="phoneError">Phone number required.

pid="phoneHint">Phone number must start with 06.
```





Phone number*

Phone number required.

For demo purposes, must start with 06.

Save

imes Phone number, required invalid data, edit text



```
<label for="phone">
Phone number<span aria-hidden="true">*</span>
</label>
<input
type="phone"
id="phone"
aria-required="true"
aria-invalid="true"
aria-describedby="phoneHint phoneError"
Phone number required.
Phone number must start with 06.
```





	Email*	
	Phone number*	•
×	Email, required, edit te	997-7-7-7-11-1-7-1-1-7-1-1-7-1-1-7-1

Moment of validation

(Please don't disable the save button)

OnSubmit

Email*
Phone number*
For demo purposes, must start with 06. Save

Moment of validation

OnBlur

Email*
Phone number*
For demo purposes, must start with 06.
Save

Moment of validation

OnChange

Email*
Phone number*
For demo purposes, must start with 06.
Save

OnBlur + OnSubmit

- User gets notified while filling in the form
- User gets summary of error after submit
- Best of both worlds
- Best for medium/large forms



```
<label for="phone">
Phone number<span aria-hidden="true">*</span>
</label>
<input
type="phone"
id="phone"
aria-required="true"
aria-invalid="true"
aria-describedby="phoneHint phoneError"
Phone number required.
Phone number must start with 06.
<div class="form-feedback">
Failed to save because 2 fields are invalid.
Failed to save because 2 fields are invalid.
</div>
```











You are currently on a tab, group, inside a group. To select this option, press Control-Option-Space. To exit this group, press

Wrapping up

- for: To connect labels to inputs.
- aria-hidden: To hide elements to the screen reader.
- aria-required: To mark a field as required.
- aria-invalid: To mark the field as invalid.
- aria-describedby: To connect the description and error message to the input.
- aria-live: To announce dynamic error messages.
- Moment of validation strategy

Fin. Questions?

Your duty as a web creator is to ensure everyone can enjoy the web.