

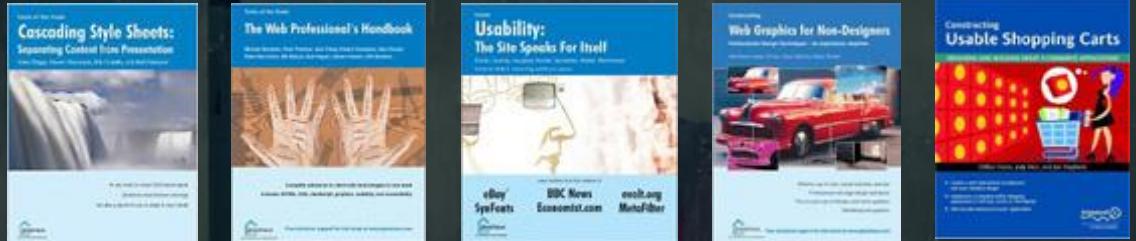
The background image shows a city skyline at night during a rain shower. The buildings are silhouetted against a dark sky, with occasional lights from windows or signs. The CN Tower is prominent in the center-right. The overall atmosphere is moody and atmospheric.

Under-Engineered Patterns

#a1yTO 2022

About Adrian Roselli

- I've written some stuff,
- (former) Invited Expert at W3C,
- Building for the web since 1993,
- Learn more at AdrianRoselli.com,
- Avoid on Twitter @aardrian.



DOES MY SITE
DESERVE
RECOGNITION?

inclusive
design24

A LIST APART

Under-Engineered How?

- Native HTML
- Minimal styling
- Minimal script (no libraries, frameworks, resets)
- Minimal ARIA (if any)
- Accessible by default

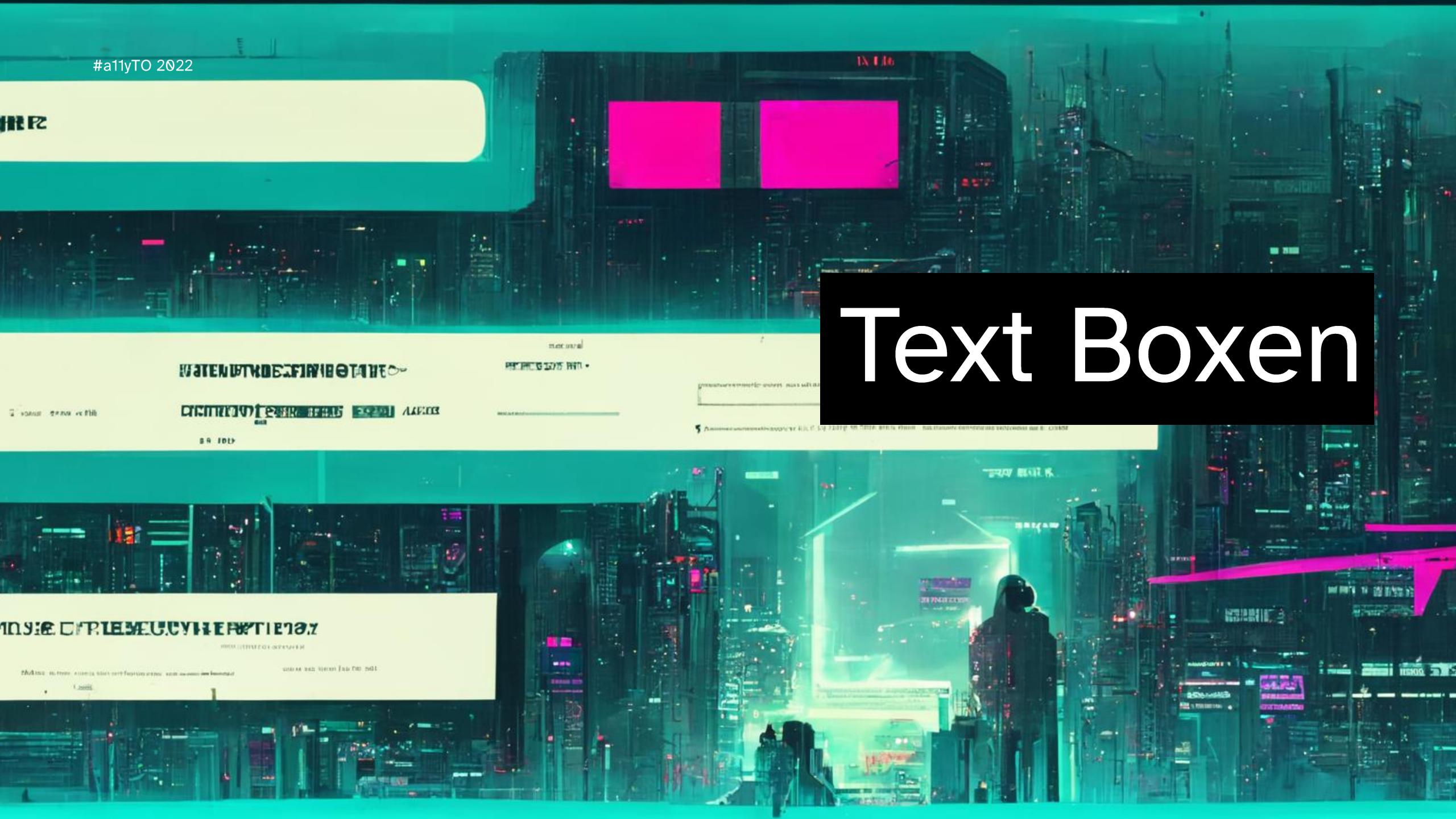
Under-Engineered How?

- Support assorted states (disabled, errored, mixed, etc)
- Support scaling (zoom or text)
- Meet WCAG contrast minimums
- Support WHCM / Contrast Themes / forced-colors
- Support prefers-reduced-motion
- Support prefers-color-scheme
- Support printing
- Work with non-LTR languages

#a11yTO 2022

1x146

Text Boxen



Text Boxen

```
textarea,  
input {  
  font: inherit;  
  letter-spacing: inherit;  
  word-spacing: inherit;  
}
```

Text Boxen

- The font declaration inherits:
 - font-size
 - font-family
 - font-style
 - font-variant
 - font-weight
 - font-stretch
 - font-height
 - line-height

Text Boxen

- letter-spacing
 - Text boxes are unaffected when user/author changes on ancestors
 - Must explicitly inherit
 - Useful to support SC 1.4.12 Text Spacing
 - Not in any CSS resets I have found
- word-spacing
 - Text boxes are unaffected when user/author changes on ancestors
 - Must explicitly inherit
 - Useful to support SC 1.4.12 Text Spacing
 - Not in any CSS resets I have found

Assorted Fields

Text area:

```
  Lorem ipsum dolor sit  
  amet.
```

Text Input:

Spaced Text

Text area:

```
  Lorem ipsum dolor sit  
  amet.
```

Text Input:

Assorted Inputs

▼ Show them all

Assorted Fields

Text area:

 Lorem ipsum dolor sit amet.

Text Input:

 Frank

Spaced Text

Text area:

 Lorem ipsum dolor sit
 amet.

Assorted Inputs

▼ Show them all

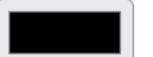
button  mm / dd / yyyy mm / dd / yyyy , -- : -- -- email Browse... No file selected.

image month 

search submit tel text -- : -- -- url

week datetime

Text Boxen

- What you get for free:
 - Internationalization support
 - Windows High Contrast Mode / forced-colors mode support
 - Print support

Text Boxen

- What you can add:
 - A border for better visibility
 - Padding for breathing room
 - More obvious styles for
 - Focused
 - Required
 - Errored
 - Disabled (though I suggest not using them)
 - Read-only (though I suggest not using them)
 - Dark mode styles
- All must still meet WCAG and internationalization best practices

Text Boxen

```
textarea,  
input:not([type="checkbox"]):not([type="file"]):not([type="image"]):n  
ot([type="radio"]):not([type="range"]) {  
    border: 0.1em solid;  
    padding: 0 0.2em;  
}
```

Text Boxen: Focused

```
textarea:focus,  
input:not([type="checkbox"]):not([type="file"]):not([type="image"]):n  
ot([type="radio"]):not([type="range"]):focus {  
    outline: 0.15em solid #00f;  
    box-shadow: 0 0 0.2em #00f;  
}
```

Text Boxen: Required

```
textarea[required],  
input:not([type="checkbox"]):not([type="file"]):not([type="image"]):n  
ot([type="radio"]):not([type="range"])[required] {  
    border-inline-start-width: 0.3em;  
}
```

Text Boxen: Errored

```
textarea[aria-invalid],  
input:not([type="checkbox"]):not([type="file"]):not([type="image"]):n  
ot([type="radio"]):not([type="range"])[aria-invalid] {  
    background: linear-gradient(135deg, rgba(255,0,0,1) 0,  
    rgba(255,0,0,1) .4em, rgba(255,255,255,0) .4em);  
}
```

Text Boxen: Read-only

```
textarea[readonly],  
input:not([type="checkbox"]):not([type="file"]):not([type="image"]):n  
ot([type="radio"]):not([type="range"])[readonly] {  
    border-inline-start: none;  
    border-block-start: none;  
    border-inline-end: none;  
}
```

Assorted Fields

Text area:

Lorem ipsum dolor sit amet.

Text Input:

Frank

Fields with Attributes

Read-only Text Input:

Phrank

Required Text Input:

Errored Text Input:

Errored Required Text Input:

Disabled Fields

Mumble:

Lorem ipsum dolor sit amet.

Assigned Name:

Still Frank

שדות שונים

לקש:

Lorem ipsum dolor
אמט.

שם פרטי:

Frank

נדפס:

Selects

Selects

```
select {  
  font: inherit;  
  letter-spacing: inherit;  
  word-spacing: inherit;  
}
```

Selects: Before

Basic

Choose a pet

One of these cuddly options... ▾

Spaced Text

Choose a pet

One of these cuddly options... ▾

Selects: After

Basic

Choose a pet

One of these cuddly options... ▾

Spaced Text

Choose a pet

One of these cuddly options... ▾

Selects: Replace the Arrow

```
select { /* from Filament */
  -moz-appearance: none;
  -webkit-appearance: none;
  appearance: none;
}

select:not([multiple]) { /* mine again */
  padding-right: 1.2em;
  background-repeat: no-repeat;
  background-position: calc(100% - 0.25em) 0.35em;
  background-size: 0.85em auto;
  background-image: url("data:image/svg+xml,...");
}
```

Selects: Assorted Bits and States

- What you can add:
 - A border for better visibility
 - Padding for breathing room
 - More obvious styles for
 - Focused
 - Required
 - Errored
 - Disabled (though I suggest not using them)
 - Read-only (though I suggest not using them)
 - Dark mode styles
- All must still meet WCAG and internationalization best practices

Selects: All Together

Basic

Choose a pet

One of these cuddly options... ▼

Multitple

Choose a pet

One of these cuddly options... ▲

Dog

Cat

Hamster

Parrot

Spider

Required

Choose a pet

One of these cuddly options... ▼

Required Multiple

Choose a pet

One of these cuddly options... ▲

Dog

Cat

Hamster

Errorred

Choose a pet

One of these cuddly options... ▼

Errorred Multiple

Choose a pet

One of these cuddly options... ▲▼

Dog

Cat

Hamster

Disabled

Choose a pet

One of these cuddly options... ▼

Disabled Multiple

Choose a pet

One of these cuddly options... ▲▼

Dog

Cat

Hamster

الأساسي

اختر حيواناً أليفاً

أحد هذه الخيارات المحببة... ▼

مضاعف

اختر حيواناً أليفاً

أحد هذه الخيارات المحببة... ▲▼

الكلب

قط

الهامستر

ببغاء

العنكبوت

Select: Other Benefits

- Fixes iOS/iPadOS zoom-on-focus ‘feature’
 - No need for font-size: 16px, or other variations
- Native <select>s dismiss on a gesture instead of navigating

Android 12,
Chrome 100,
TalkBack 12.1

* no audio because of known Android screen record bug

Select: Other Benefits

- Here it is on iOS.

iPadOS 15.1,
Safari 15.2,
VoiceOver

Checkboxen and Radios



Checkboxen and Radio Buttons

```
input[type=radio],  
input[type=checkbox] {  
  accent-color: #090;  
}
```

Please fill out the things.

אני מלא את הדברים.

Send Me Spam

- Please send me all the spam.
- Please send it to my neighbor.
- Here is an option that is probably too long to fit on one line so it is an opportunity to test wrapping.
- This one is disabled

שלח לי דואר זבל

אני שלחו לי את כל הspam.

אני שלחו אותו לשכני.

הנה אפשרות שכנראה ארכאה מכדי שתתאים לקו אחד ולכן זו הזדמנות לבדוק עטיפה.

זה מושכת

I have read your terms and they make no sense.

קראתי את התנאים שלך והם לא הגיוניים.

Please send me free things.

אני שלחו לי דברים בחינם.

Regardless of my choice above, sign me up for all your physical and electronical spam.

ללא קשר לבחירה שלי לעללה, הירשם אליו לכל Spam הפיזי והאלקטרוני שלך.

Checkboxen und Radio Buttons: Customized

- What you will need to manage:
 - Checked
 - Mixed (checkbox only)
 - Focused ?
 - Required ?
 - Errored ?
 - Disabled (though I suggest not using them)
 - Read-only (though I suggest not using them)
 - Dark mode styles
 - WHCM / CM / forced-colors
 - All must still meet WCAG and internationalization best practices



Checkboxen und Radio Buttons: Customized

```
input[type=radio],  
input[type=checkbox] {  
  position: absolute;  
  top: auto;  
  overflow: hidden;  
  clip: rect(1px, 1px, 1px, 1px);  
  width: 1px;  
  height: 1px;  
  white-space: nowrap;  
}
```

Checkboxen und Radio Buttons: Customized

```
input[type=radio],  
input[type=checkbox] {  
  -webkit-appearance: none;  
  appearance: none;  
  /* to address a Safari bug */  
  background: #fff;  
}
```

Checkboxen and Radio Buttons: Customized

```
<input type="radio" name="spam" id="spamY" checked>
<label for="spamY">
  Please send me all the spam.
</label>
```

Checkboxen und Radio Buttons: Customized

```
input[type=radio] + label::before,  
input[type=checkbox] + label::before {  
    content: '';  
    background: inherit;  
    border: .1em solid rgba(0, 0, 0, .75);  
    display: block;  
    float: left;  
    width: 1em;  
    height: 1em;  
    margin-inline-start: -1.5em;  
    margin-block-start: .15em;  
    vertical-align: top;  
    cursor: pointer;  
    text-align: center;  
    transition: all .1s ease-out;  
}
```

Checkboxen und Radio Buttons: Customized

```
input[type=radio] + label::before {  
    border-radius: 100%;  
}  
  
input[type=radio]:checked + label::before {  
    background-color: #00f;  
    box-shadow: inset 0 0 0 .15em rgba(255, 255, 255, .95);  
}
```

Checkboxen und Radio Buttons: Customized

```
input[type=checkbox] +  
label::after {  
    display: block;  
    content: '';  
    position: absolute;  
    top: .5em;  
    left: .5em;  
    width: 1em;  
    height: 1em;  
    transform: rotate(0deg);  
    transition: all .1s ease-out;  
}
```

```
input[type=checkbox]:checked +  
label::after {  
    top: .4em;  
    left: .7em;  
    width: .4em;  
    height: .8em;  
    border-right: .25em solid #00f;  
    border-bottom: .25em solid #00f;  
    transform: rotate(45deg);  
}
```

Checkboxen and Radio Buttons: Customized

```
*[dir="rtl"] input[type=radio] + label::before,  
*[dir="rtl"] input[type=checkbox] + label::before {  
  float: right;  
}  
*[dir="rtl"] input[type=checkbox] + label::after {  
  left: auto;  
  right: .5em;  
}  
*[dir="rtl"] input[type=checkbox]:checked + label::after {  
  left: auto;  
  right: .7em;  
}
```

Checkboxen und Radio Buttons: Customized

```
@media screen and (forced-colors: active) {  
  ...  
}  
  
@media screen and (prefers-color-scheme: dark) {  
  ...  
}  
  
@media print {  
  ...  
}
```

Please fill out the things.

אני מלא את הדברים.

Send Me Spam

- Please send me all the spam.
- Please send it to my neighbor.
- Here is an option that is probably too long to fit on one line so it is an opportunity to test wrapping.
- This one is disabled

I have read your terms and they make no sense.

Please send me free things.

Regardless of my choice above, sign me up for all your physical and electronical spam.

שלחו לי דואר זבל

אני שלחו לי את כל הספאם.

אני שלחו אותו לשכני.

הנה אפשרות שכנראה ארכאה מכך שתתאים לו אחד ולכן זו
ההזדמנות לבוחן עטיפה.

זה מושבת

קראתי את התנאים שלך והם לא הגיוניים.

אני שלחו לך דברים בחינם.

ללא קשר לבחירה שלי למטה, הירשם אליו לכל ספאם הפיזי
והאלקטרוני שלך.

Checkboxen and Radio Buttons: Customized

- Extra lift, but can thoroughly match your brand
- Still no need for external libraries
- Still using native HTML
- Allows you to go beyond what the browsers provide
 - Better focus styles
 - Stronger contrast
 - Larger hit areas



Toggles

Toggles

Use `<input type="checkbox">` if:

- you want to progressively enhance the control,
- flipping the toggle will only take effect when the user submits it.

Use `<button aria-pressed>` if:

- you can count on JavaScript being available,
- flipping the toggle has an immediate effect.

Toggles

```
<input type="checkbox" id="Foo">
<label for="Foo">
  Styled checkbox
</label>

<button type="button" aria-pressed="false"
onclick="toggle(this.id);">
  Styled button
</button>
```

Toggles

Default checkbox



Styled checkbox

Default button



Styled button

Toggles

```
.toggles [type="checkbox"] {  
  /* hide it */  
}  
  
.toggles [type="checkbox"] + label {  
  /* position it */  
}  
  
.toggles [type="checkbox"] + label::before,  
.toggles [type="checkbox"] + label::after {  
  /* set transition */  
}  
  
.toggles [type="checkbox"] + label::before {  
  /* pill */  
}  
  
.toggles [type="checkbox"] + label::after {  
  /* thumb */  
}  
  
.toggles [type="checkbox"]:checked + label::after {  
  /* color and position */  
}
```

```
.toggles [aria-pressed] {  
  /* remove button styles */  
  /* position text */  
}  
  
.toggles [aria-pressed]::before,  
.toggles [aria-pressed]::after {  
  /* set transition */  
}  
  
.toggles [aria-pressed]::before {  
  /* pill */  
}  
  
.toggles [aria-pressed]::after {  
  /* thumb */  
}  
  
.toggles [aria-pressed="true"]::after {  
  /* color and position */  
}
```

Toggles: Script

```
function toggle(btnID) {  
  var theButton = document.getElementById(btnID);  
  if (theButton.getAttribute("aria-pressed") == "false") {  
    theButton.setAttribute("aria-pressed", "true");  
  } else {  
    theButton.setAttribute("aria-pressed", "false");  
  }  
}
```

Toggles

Toggles



Push alerts to my browser.



Please send me free things.



I have read your terms and they make no sense.



This one is indeterminate.

Flipped Toggles



Wifi



Cellular service



Bluetooth



Airplane mode

Toggles

RTL Toggles

לחץ על התראות לדף נשי.



אני שולח לך דברים בחינוך.



קראתי את התנאים שלך והם לא הגיוני.



זה לא מוגדר.



Flipped RTL Toggles

وائي فائي

سيلوولر سروس

بلوٹوته

بواي جهاز مود



Toggles: forced-colors

Toggles



Push alerts to my browser.



Please send me free things.



I have read your terms and
they make no sense.



This one is indeterminate.

Flipped Toggles



Wifi



Cellular service



Bluetooth



Airplane mode

Toggles: Switch Role

- Switch role does not allow for a mixed value
 - aria-checked allows for mixed
 - aria-pressed allows for mixed
- Switch role does not always announce as a switch
 - Keep in mind for documentation
 - Announcement is mixed
 - Safari is best on desktop
 - Safari is worst on mobile
 - Firefox is best on mobile
 - Firefox is worst on desktop



Toggles: Are They Under-engineered?

- Uses the minimum necessary HTML
- Then piles on with the CSS
- Minimal script, and just for the button
- Fundamentally still a native HTML control



Multi-selects

Multi-selects

- Avoid <select multiple>
- Avoid ARIA listbox
- What native control also does this?

Multi-selects

```
<fieldset>
  <legend>Mammals</legend>
  <input type="checkbox" name="Mam" id="Mam01" value="Aardvark">
  <label for="Mam01">Aardvark</label>
  <input type="checkbox" name="Mam" id="Mam02" value="Babirusa">
  <label for="Mam02">Babirusa</label>
  <input type="checkbox" name="Mam" id="Mam03" value="Chipmunk">
  <label for="Mam03">Chipmunk</label>
  ...
</fieldset>
```

Multi-selects

```
<fieldset>
  <legend>Mammals</legend>
  <p>
    <a href="#Skip">Skip to next group</a>
  </p>
  <input type="checkbox" name="Mam" id="Mam01" value="Aardvark">
  <label for="Mam01">Aardvark</label>
  <input type="checkbox" name="Mam" id="Mam02" value="Babirusa">
  <label for="Mam02">Babirusa</label>
  ...
</fieldset>
```

Multi-selects

Mammals

[Skip to next group](#)

- Aardvark
- Babirusa
- Chipmunk
- Douc
- English Cream Golden Retriever
- Fennec Fox
- Gibbon

Multi-select, but you hate tall content

```
<fieldset tabindex="0">
  <legend>Mammals</legend>
  ...
</fieldset>
```

Multi-select, but you hate tall content

```
fieldset[tabindex] {  
  max-height: 11.5em;  
  max-width: 20em;  
  overflow: auto;  
}
```

Multi-select, but you hate tall content



Mammals

[Skip to next group](#)

- Aardvark
- Babirusa
- Chipmunk
- Douc
- English Cream Golden Retriever

This content is only here as a destination for the skip link.

Multi-select, but you hate fieldsets

```
<div role="group" aria-labelledby="ScrollingGroupLabel" tabindex="0">
  <p>
    <strong id="ScrollingGroupLabel">Mammals</strong>
  </p>
  <p>
    <a href="#Skip">Skip to next group</a>
  </p>
  <input type="checkbox" name="Mam" id="Mam01" value="Aardvark">
  <label for="Mam01">Aardvark</label>
  ...
</div>
```

Multi-select, but you hate fieldsets

```
[role="group"] [aria-labelledby] [tabindex] {  
  max-height: 12.75em;  
  max-width: 20em;  
  overflow: auto;  
  scroll-padding-top: 1em;  
}
```

Multi-select, but you hate fieldsets

```
[role="group"] [aria-labelledby] [tabindex] > p:first-child {  
  position: sticky;  
  top: 0;  
  background-color: var(--page-bg);  
}
```

Multi-select, but you hate fieldsets

Mammals

[Skip to next group](#)

- Aardvark
- Babirusa
- Chipmunk
- Douc
- English Cream Golden Retriever

This content is only here as a destination for the skip link.

Multi-select, but you hate letting people glance

```
<button type="button" aria-expanded="true" id="DisclosureGroupTrigger"
  onclick="toggleDisclosure(this.id);"
  aria-controls="DisclosedGroup">
  <span class="icon">
    <svg ...>...</svg>
  </span>
  Mammals
  <span class="counter">(<span id="DisclosureGroupCheckCount">0</span> of <span
  id="DisclosureGroupCount">26</span> selected)</span>
</button>

<div role="group" aria-labelledby="DisclosureGroupTrigger" id="DisclosedGroup"
  tabindex="0">
  <p>
    <a href="#Skip04">Skip to next group</a>
  </p>
  <input type="checkbox" name="Mam" id="Mam01" value="Aardvark">
  <label for="Mam01">Aardvark</label>
</div>
```

Multi-select, but you hate letting people glance

```
/* Hide the set of checkboxes unless the button has aria-expanded=true */
button[aria-expanded="false"] + [role="group"][tabindex] {
  display: none;
}

/* Hide the selected counter unless JS has run */
button[aria-expanded]:not([data-js]) > .counter {
  display: none;
}

/* Only position the checkboxes over other content if JS has run */
button[aria-expanded][data-js] + [role="group"][tabindex] {
  position: absolute;
  background: #fff;
}

/* Hide the skip link if JS has run */
button[aria-expanded][data-js] + [role="group"][tabindex] > p {
  display: none;
}
```

Multi-select, but you hate letting people glance

Mammals (3 of 26 selected)

- Aardvark
- Babirusa
- Chipmunk
- Douc
- English Cream Golden Retriever

Curabitur sit amet odio in est scelerisque gravida. Integer vitae mi interdum, egestas lectus id, varius arcu.

Mammals

[Skip to next group](#)

- Aardvark
- Babirusa
- Chipmunk
- Douc
- English Cream Golden Retriever

This content is only here as a destination for the skip link.

Multi-select form control Failure

No
JavaScript

Dependency Questions

Dependency Questions

What pet do you have?

Dog
 Cat
 Bird
 Griffon
 Other

Group Label

None
 Some

What pet do you have?

Dog
 Cat
 Bird
 Griffon
 Other

Your pet

\$240 of pudding

Group Label

None
 Some

Someone
 Somewhat
 Somewhere
 Somehow
 Someday

Dependency Questions

```
#p5:not(:checked) ~ div {  
  display: none;  
}
```

Dependency Questions

```
<input type="radio" name="pet" id="p5" value="Other">
<label for="p5">Other</label>
<div>
  <label for="mypet">Your pet</label><br>
  <input type="text" name="mypet" id="mypet">
</div>
```

Dependency Questions

```
fieldset {  
  display: flex;  
  flex: 1 1 1em;  
  flex-wrap: wrap;  
}  
fieldset input {  
  flex: 0 1 1em;  
}  
fieldset label {  
  flex: 1 1 calc(100% - 2em);  
}  
fieldset legend, fieldset > div {  
  flex: 1 1 100%;  
}  
fieldset > div {  
  margin-left: 1.5em;  
}
```

Dependency Questions

What pet do you have?

Dog
 Cat
 Bird
 Griffon
 Other

Group Label

None
 Some

What pet do you have?

Dog
 Cat
 Bird
 Griffon
 Other

Your pet

\$240 of pudding

Group Label

None
 Some

Someone
 Somewhat
 Somewhere
 Somehow
 Someday

Responsive Tables



СИДІЛДЫР
БІЛІКТЕРДІҢ ЗАМІНІ

СОМАЛІДІҢ ЗАМІНІ
ХАСІРДЫҢ АСТАУДІСІНІ

СОМАЛІДІҢ
ХАСІРДЫҢ
АСТАУДІСІНІ

ДА САЛА

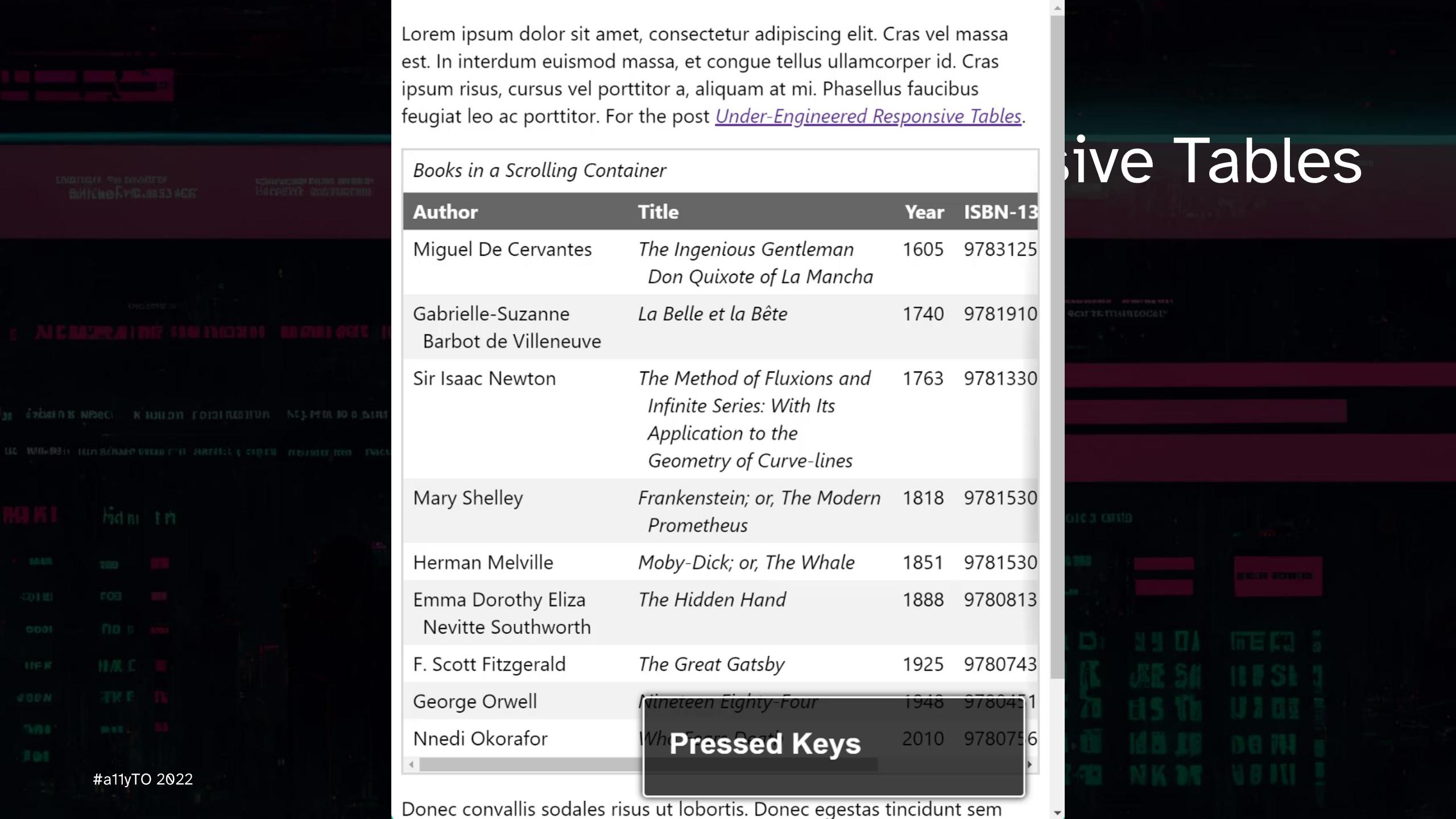
Responsive Tables

```
<div role="region" aria-labelledby="Caption01" tabindex="0">  
  <table>[...]</table>  
</div>
```

Responsive Tables

```
[role="region"] [aria-labelledby] [tabindex] {  
  overflow: auto;  
}
```

```
[role="region"] [aria-labelledby] [tabindex]:focus {  
  outline: .1em solid rgba(0,0,0,.1);  
}
```

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Cras vel massa est. In interdum euismod massa, et congue tellus ullamcorper id. Cras ipsum risus, cursus vel porttitor a, aliquam at mi. Phasellus faucibus feugiat leo ac porttitor. For the post [Under-Engineered Responsive Tables](#).

Books in a Scrolling Container

Author	Title	Year	ISBN-13
Miguel De Cervantes	<i>The Ingenious Gentleman Don Quixote of La Mancha</i>	1605	9783125
Gabrielle-Suzanne Barbot de Villeneuve	<i>La Belle et la Bête</i>	1740	9781910
Sir Isaac Newton	<i>The Method of Fluxions and Infinite Series: With Its Application to the Geometry of Curve-lines</i>	1763	9781330
Mary Shelley	<i>Frankenstein; or, The Modern Prometheus</i>	1818	9781530
Herman Melville	<i>Moby-Dick; or, The Whale</i>	1851	9781530
Emma Dorothy Eliza Nevitte Southworth	<i>The Hidden Hand</i>	1888	9780813
F. Scott Fitzgerald	<i>The Great Gatsby</i>	1925	9780743
George Orwell	<i>Nineteen Eighty-Four</i>	1948	9780431
Nnedi Okorafor	<i>Who Fears Death</i>	2010	9780756

Pressed Keys

Responsive Tables

Responsive Tables

- Why the keyboard affordances?
 - Only Firefox focuses a scrolling area
 - Chromium, Safari do not
 - Chromium users would need caret browsing
- So we add tabindex for keyboard users
- And then ARIA to avoid confusing screen reader users
- Also, not spatial navigation

Un-Responsive Tables: Firefox

CodePen - Caret Table x +

https://cdpn.io/pen/debug/bGLrYBo/36abba5d798a1a2

Search

Tests Bookmarks Mine Validation Time Sinks Webmail :: Inbox

Navigating a Scrolling Container

The text in the table is large (200%) to try to force the horizontal scroll. If you still see no scroll bar on the table container, make your window smaller.

Cursor landing spot: This text field is here solely so you can give it focus, which is explained in the post.
 Does Nothing

Books in a Scrolling Container

Author	Title	Year	IS
Miguel De Cervantes	<i>The Ingenious Gentleman Don Quixote of La Mancha</i>	1605	97
Gabrielle-Suzanne Barbot de Villeneuve	<i>La Belle et la Bête</i>	1740	97
Sir Isaac Newton	<i>The Method of Fluxions and Infinite Series: With Its Application to the Geometry of Curve-Lines</i>	1763	97

Pressed Keys

Un-Responsive Tables: Chromium Caretting

The screenshot shows a Chromium-based browser window with the title "CodePen - Caret Table". The URL is <https://cdpn.io/pen/debug/bGLrYBo/36abba5d798a1a22b06031...>. The page content is titled "Navigating a Scrolling Container". It contains a note about forcing horizontal scroll and a "Cursor landing spot" input field with a value of "Does Nothing". Below this is a table titled "Books in a Scrolling Container". The table has columns for Author, Title, Year, and ISBN. The first row lists Miguel De Cervantes with two entries: "The Ingenious Gentleman" and "Don Quixote of La Mancha". The second row lists Gabrielle-Suzanne Barbot de Villeneuve with one entry: "La Belle et la Bête". The third row lists Sir Isaac Newton with one entry: "The Method of Fluxions and Infinite Series; With Its Application to the Geometrical Quadrature and Arithmetical Composition of Curve Lines". A tooltip labeled "Pressed Keys" is visible over the last row. The browser interface includes a toolbar with icons for refresh, search, and other functions.

Author	Title	Year	ISBN
Miguel De Cervantes	<i>The Ingenious Gentleman</i> <i>Don Quixote of La Mancha</i>	1605	9788492915110
Gabrielle-Suzanne Barbot de Villeneuve	<i>La Belle et la Bête</i>	1740	9788492915127
Sir Isaac Newton	<i>The Method of Fluxions and Infinite Series; With Its Application to the Geometrical Quadrature and Arithmetical Composition of Curve Lines</i>	1763	9788492915134

Un-Responsive Tables: Safari MouseKeys

The screenshot shows a Safari browser window with a dark theme. The title bar reads "cdpn.io/pen/debug/bGLrYBo/36abba5d798a1a22b". The main content area has a heading "Navigating a Scrolling Container" followed by a paragraph: "The text in the table is large (200%) to try to force the horizontal scroll. If you still see no scroll bar on the table container, make your window smaller." Below this is a text input field with placeholder "Cursor landing spot:" and a note: "This text field is here solely so you can give it focus, which is explained in the post." A button labeled "Does Nothing" is next to the input field. The main content area contains a table with the caption "Books in a Scrolling Container". The table has columns for Author, Title, Year, and ISBN. It lists three books: "Miguel De Cervantes" with titles "The Ingenious Gentleman Don Quixote of La Mancha", "Gabrielle-Suzanne Barbot de Villeneuve" with title "La Belle et la Bête", and "Sir Isaac Newton" with title "The Method of Fluxions and Infinite Series: With Its Application to the Geometrical Quadrature of Curve". A tooltip "Pressed Keys" is visible over the last row. The bottom left corner of the window has the text "#a11yTO 2022".

Author	Title	Year	ISBN
Miguel De Cervantes	<i>The Ingenious Gentleman Don Quixote of La Mancha</i>	1605	9780140335338
Gabrielle-Suzanne Barbot de Villeneuve	<i>La Belle et la Bête</i>	1740	9780140335345
Sir Isaac Newton	<i>The Method of Fluxions and Infinite Series: With Its</i>	1763	9780140335352

Wrap-up

Wrap-up

- Blog post coming
- Will link to existing posts

The background image shows a city skyline at night during a rain shower. The buildings are silhouetted against a dark sky, with occasional lights from windows or signs. The CN Tower is prominent in the center-right. The overall atmosphere is moody and atmospheric.

Under-Engineered Patterns

#a11yTO 2022