

# HOW I LEARN TO



By [Chen Hui Jing](#) / [@hj\\_chen](#)

# GET INSPIRED



Read articles  
& books



Listen to podcasts



Watch talks

START BUILDING

People go to conferences to get inspired and to learn about things that exist or maybe an overview of how to use it.

But then, they really learn that thing, that technology, when they go home and practice it themselves.

— Una Kravets, **Toolsday #34**

# SHARE WITH THE WORLD



Write blog posts



Give a talk

# SOME BACKGROUND



My name is Hui Jing.

Self taught designer and  
developer.

Work at Deep Labs.

Write blog posts from  
time to time.

# DEMO #1: OTT RADIO BUTTONS

Enhanced

***Which was the best moment in Game 7  
of the 2016 NBA Finals?***



The Block



The Shot



The Stop



The Feelz

Inspired by Ethan Marcotte's [Laziness in the Time of Responsive Design](#)

# THE CHECKBOX HACK (1/2)

The input and its label must be linked

Either wrap the input in the label

```
<label>  
  <input type="radio" name="moment" value="block">  
    
  <span>The Block</span>  
</label>
```

Or use the for="ID\_OF\_INPUT" attribute on the label

```
<input type="radio" name="moment" value="block" id="block">  
<label for="block">  
    
  <span>The Block</span>  
</label>
```



# THE CHECKBOX HACK (2/2)

Uses the `:checked` pseudo-class and sibling selectors

```
.o-option__input {  
  opacity: 0;  
  position: absolute;  
  
  &:checked + .o-option__img {  
    border-color: #860038;  
  }  
  
  &:checked ~ .o-option__txt {  
    color: #860038;  
  }  
}
```

# CSS ANIMATIONS (1/3)

## The transform: translateX() property with nth-child selectors

```
.is-active.c-4options {  
  z-index: -1;  
  
  .is-checked.o-option:nth-child(1) {  
    transform: translateX(100%);  
  }  
  
  .is-checked.o-option:nth-child(3) {  
    transform: translateX(-100%);  
  }  
  
  .is-checked.o-option:nth-child(4) {  
    transform: translateX(-200%);  
  }  
}
```

# CSS ANIMATIONS (2/3)

## The transform: scale() and opacity property

```
.c-action,  
.c-logo__img,  
.is-active .o-option:not(.is-checked) {  
  transform: scale(0);  
  opacity: 0;  
  z-index: 0;  
}  
  
.is-active .c-action,  
.is-active .c-logo__img {  
  opacity: 1;  
  transform: scale(1);  
}
```

# CSS ANIMATIONS (3/3)

## The transition and transition-delay property

```
.o-option,  
.c-action,  
.c-logo__img {  
  transition: transform 0.4s ease-in-out, opacity 0.4s ease-out;  
  transition-delay: 0.1s;  
}
```

That 0.1s pause does make a difference 

# SEPERATION OF CONCERNS

- Layout-specific classes prefixed with l-
- Javascript hooks prefixed with js-
- Styling of objects prefixed with o-

```
<label class="l-option o-option js-option">  
  <input class="o-option__input" type="radio" name="moment" value="block">  
  The Block</span>  
</label>
```

Inspired by Harry Roberts' [CSS for Software Engineers for CSS Developers](#).

# ACCESSIBILITY PROBLEM

Does not play nice with keyboard controls 🙄

Make the enhancement a choice that can be toggled

# SOURCE CODE

<https://github.com/huijing/ott-radio-btms>

Codepen link

# DEMO #2: CSS ALBUM ART

## Tycho Album Artwork

All designs based on Scott Hansen's [blog post](#) outlining the design process for Tycho's Epoch album artwork.



Awake (2014)

Inspired by Scott Hansen's [Epoch Artwork Lineage](#)



# PSEUDO-ELEMENTS

::before and ::after

```
.element::before {  
  content: "";  
  display: block;  
  width: 50%;  
  height: 50%;  
}
```

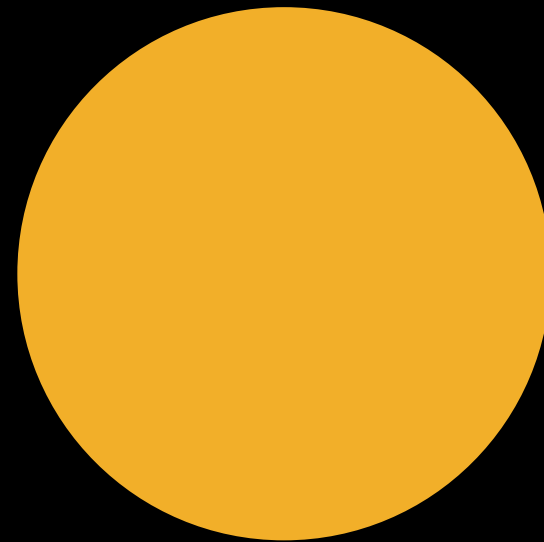
Must have the content property to work

At least have empty quotes

Not visible in the page's source, only in CSS

# SHAPES WITH CSS (1/3)

This be a circle



```
.circle {  
  width: 30vmin;  
  height: 30vmin;  
  background: #f2af29;  
  border-radius: 50%; /* This is the key line, right here */  
  margin: 0 auto;  
}
```

# SHAPES WITH CSS (2/3)

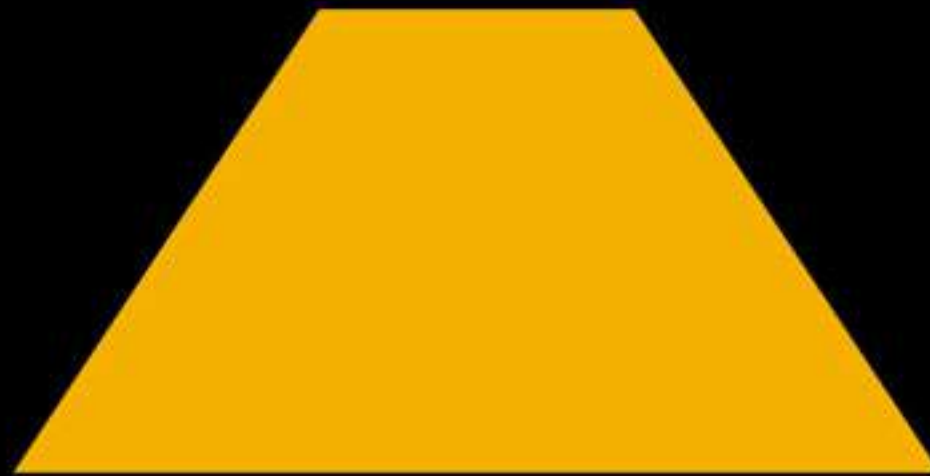
This be a triangle



```
.triangle {  
  border-top: 18.75vmin solid transparent;  
  border-bottom: 18.75vmin solid transparent;  
  border-left: 18.75vmin solid #1e292f;  
}
```

# SHAPES WITH CSS (3/3)

This be a trapezium



```
.trapezium {  
  width: 60vmin;  
  height: 30vmin;  
  background: #1e292f;  
  clip-path: polygon(33% 0, 67% 0, 100% 100%, 0% 100%); /* This is the key line,  
}
```

Unfortunately, `clip-path` is NOT supported in Edge  
or IE 😞

# BOX SHADOW TRICK

Multiple box shadows are a thing

```
box-shadow: [horizontal offset] [vertical offset] [blur radius] [optional spread
```

Make use of the offsets for positioning, and the blur radius for sizing

```
.o-logo-basic {  
  border-radius: 50%;  
  height: 1px;  
  width: 1px;  
  position: absolute;  
  bottom: 10%;  
  left: 50%;  
  box-shadow: -6vmin      0 0 0.5vmin #47473f, -4vmin      0 0 0.5vmin #47473f,  
             -2vmin      0 0 0.5vmin #47473f,  0          0 0 0.5vmin #47473f,  
             4vmin       0 0 0.5vmin #47473f, -6vmin 2vmin 0 0.5vmin #47473f,  
            -4vmin 2vmin 0 0.5vmin #47473f,  0 2vmin 0 0.5vmin #47473f,  
            2vmin 2vmin 0 0.5vmin #47473f,  4vmin 2vmin 0 0.5vmin #47473f,  
            6vmin 2vmin 0 0.5vmin #47473f;  
}
```

# CSS SCROLL SNAP

Okay fine, it's scroll-jacking ͇(ツ)͇

Only works on Firefox and Edge 🙄

```
main {
  width: 100vw;
  height: 85vmin;
  white-space: nowrap;
  overflow-y: hidden;
  overflow: auto;
  -webkit-overflow-scrolling: touch;
  scroll-snap-type: mandatory; /* this is the key line */
}

section {
  display: inline-block;
  width: 100%;
  height: 100%;
  scroll-snap-coordinate: 0 0; /* this is the key line */
}
```

# SOURCE CODE

<https://github.com/huijing/album-art>

Codepen link

## TO FIND OUT MORE...

- [Stuff you can do with the “Checkbox Hack”](#)
- [High Performance Animations](#)
- [Learning To Use The :before And :after Pseudo-Elements In CSS](#)
- [Creating Responsive Shapes With Clip-Path And Breaking Out Of The Box](#)
- [Single Div Drawings with CSS](#)
- [Introducing CSS Scroll Snap Points](#)



# THE END

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