

Transforming Elements



Nathan Taylor

SOLUTION ARCHITECT

@taylonr www.taylonr.com





“Your pages are slow for me”





“Can we put the ingredients on the back?”





Keep the pie cards like they are
Add ingredients on the back





CSS Transforms



Rotating an Object



How Was This Created?



Add in Some Color



Transformed Squares

transformed.html

```
<div class="square one-  
sixteenth"></div>  
  
<div class="square one-eighth"></div>  
  
<div class="square three-  
sixteenth"></div>  
  
<div class="square"></div>
```

transformed.css

```
.one-sixteenth {  
  transform: rotate(0.0625turn);  
  background: #2A9FBC;  
}
```

Rotation Units

turns

deg

rad



```
transform: rotate(21deg);
```

```
transform: rotate(42deg);
```

```
transform: rotate(63deg);
```

Rotating by Degrees



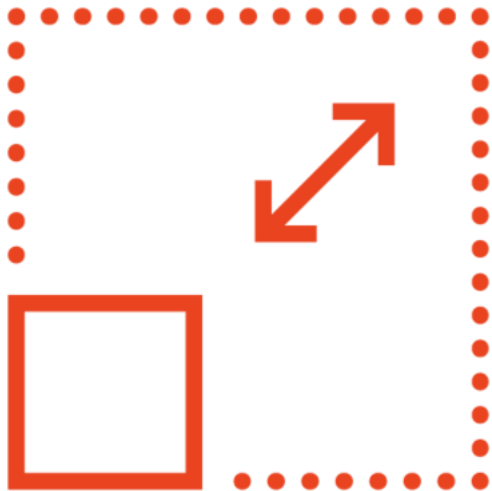
```
transform: rotate(0.367rad);
```

```
transform: rotate(0.734rad);
```

```
transform: rotate(1.10rad);
```

Rotating by Radians





Up next: other transform functions



Transform Functions



Translate



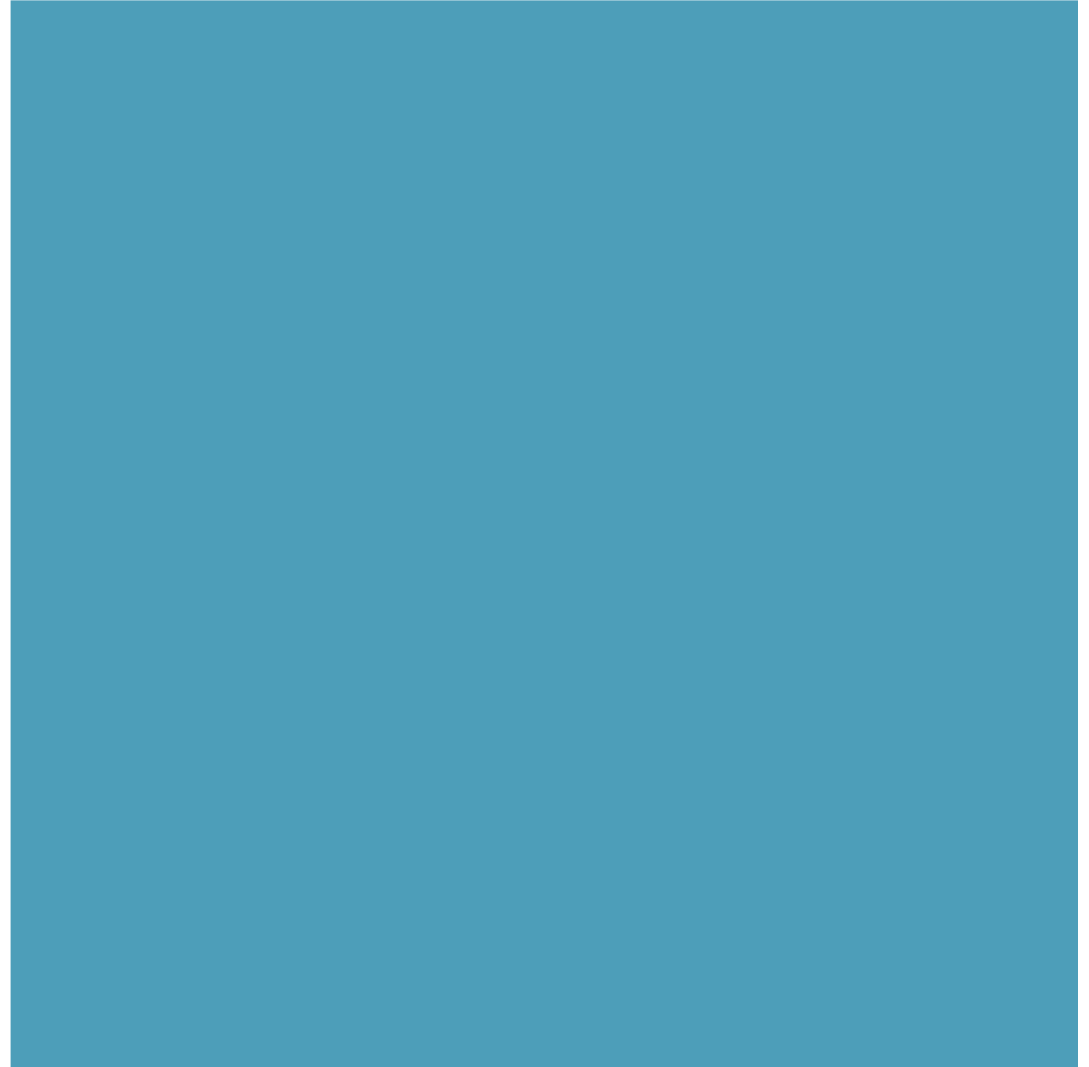
More Specific Translate Functions

translateX

translateY



Scale



Differences from Translate

No units

Only positive
values



```
transform: scale(0.5);
```

Shrinking with Scale



Differences from Translate

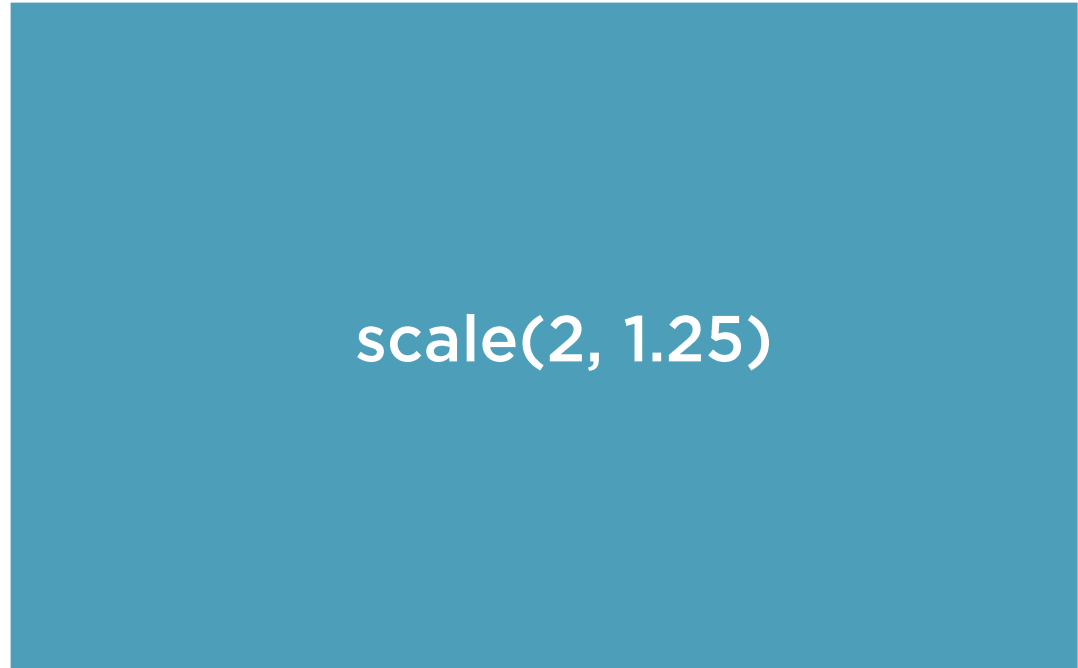
No units

Only positive
values

One value, two
directions



Scaling with Two Parameters



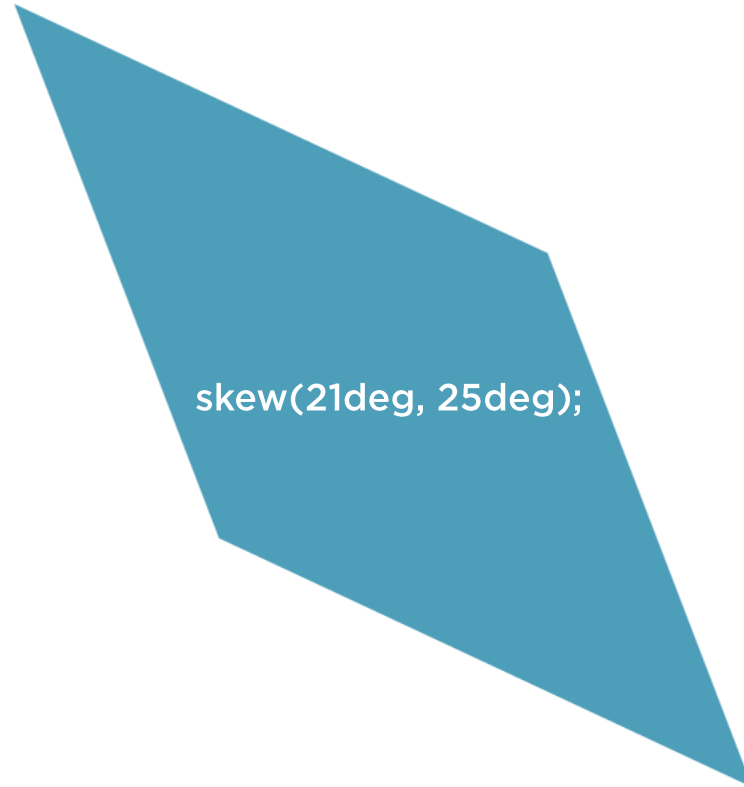
More Specific Translate Functions

`scaleX`

`scaleY`



Skew



`skew(21deg, 25deg);`



More Specific Translate Functions

skewX

skewY



`skew(21deg, 25deg)`
`translate(20px, 35px)`
`rotate(15deg)`
`scale(0.75)`





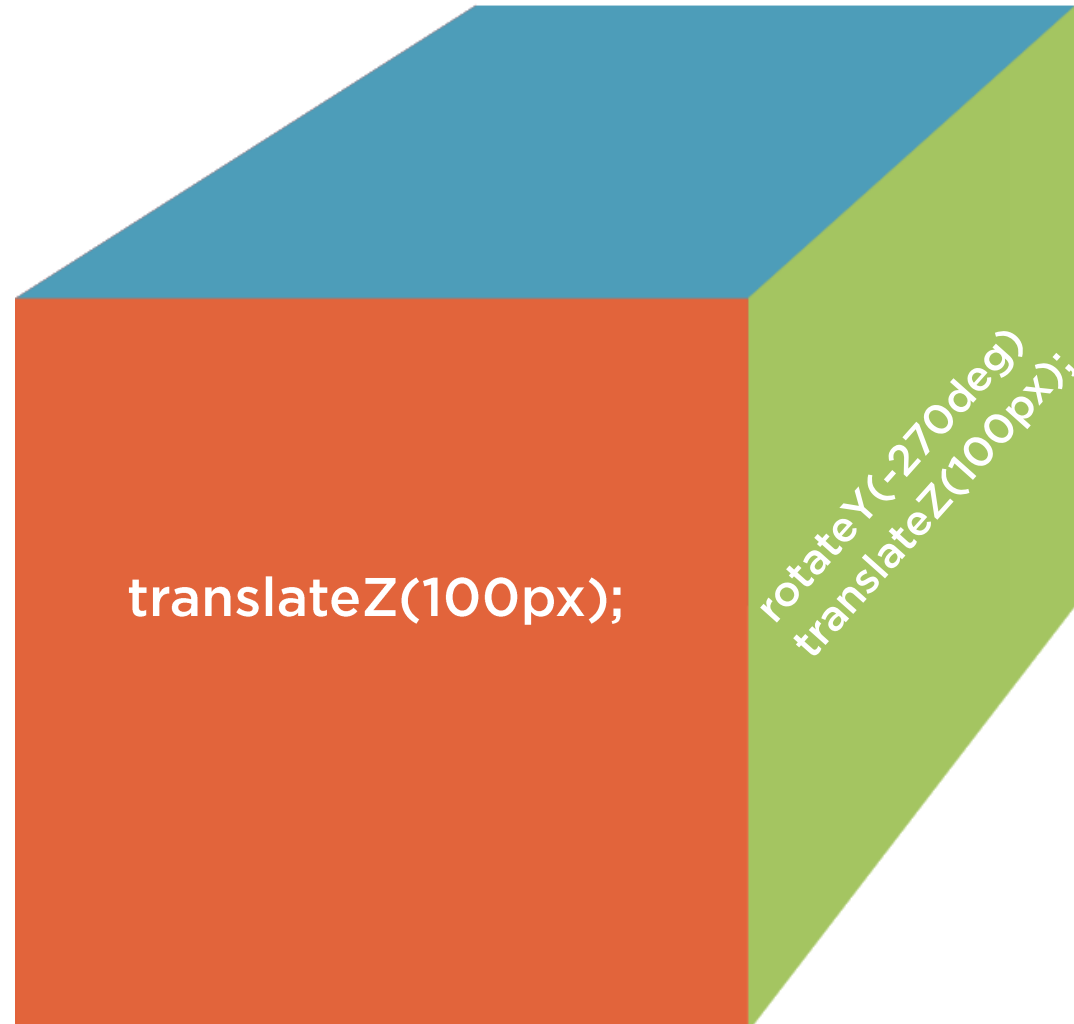
```
transform: skew(21deg, 25deg)  
translate(20px, 35px) rotate(15deg)  
scale(0.75);
```



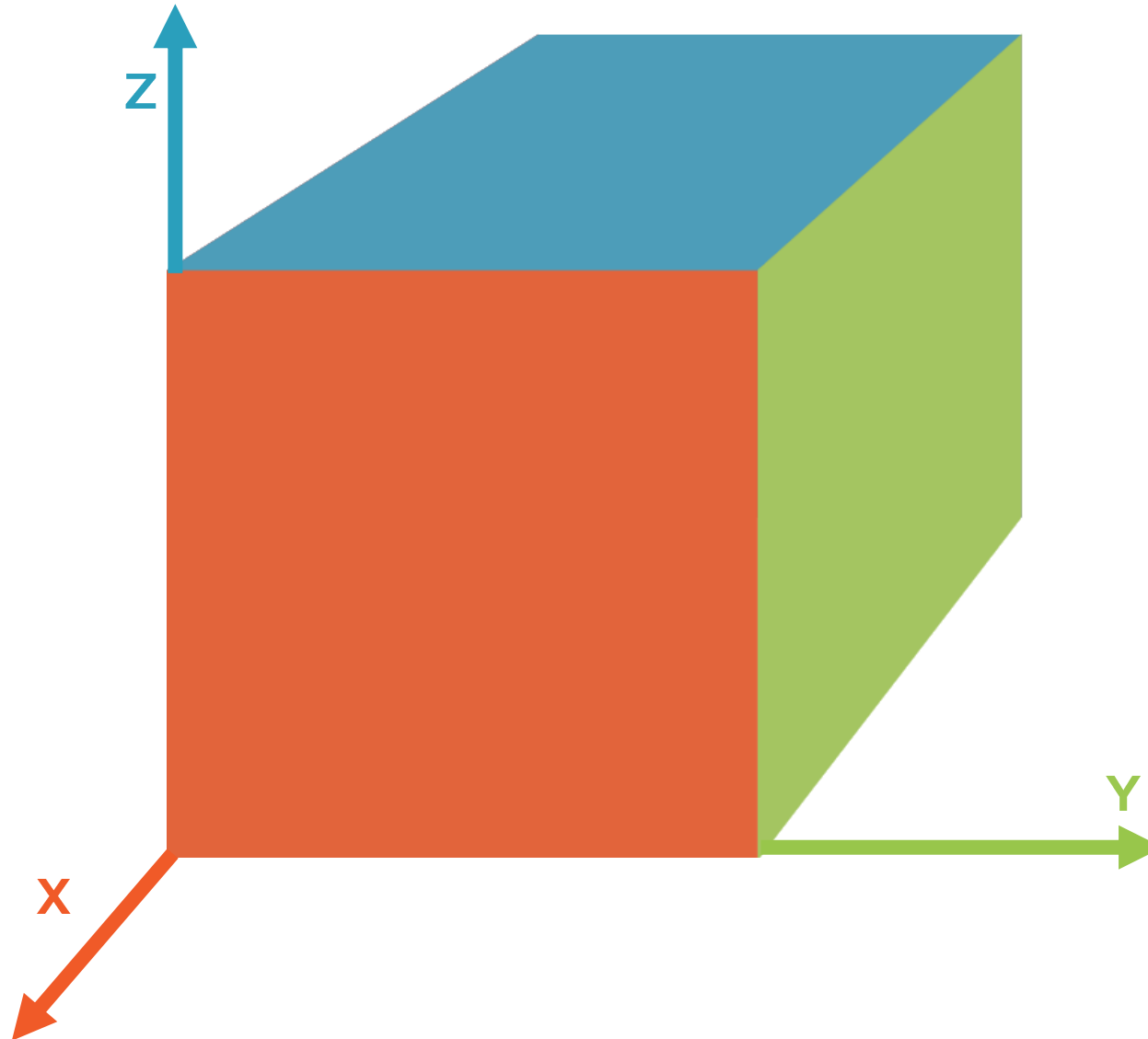
3D Transforms



HTML Cube



How to translateZ



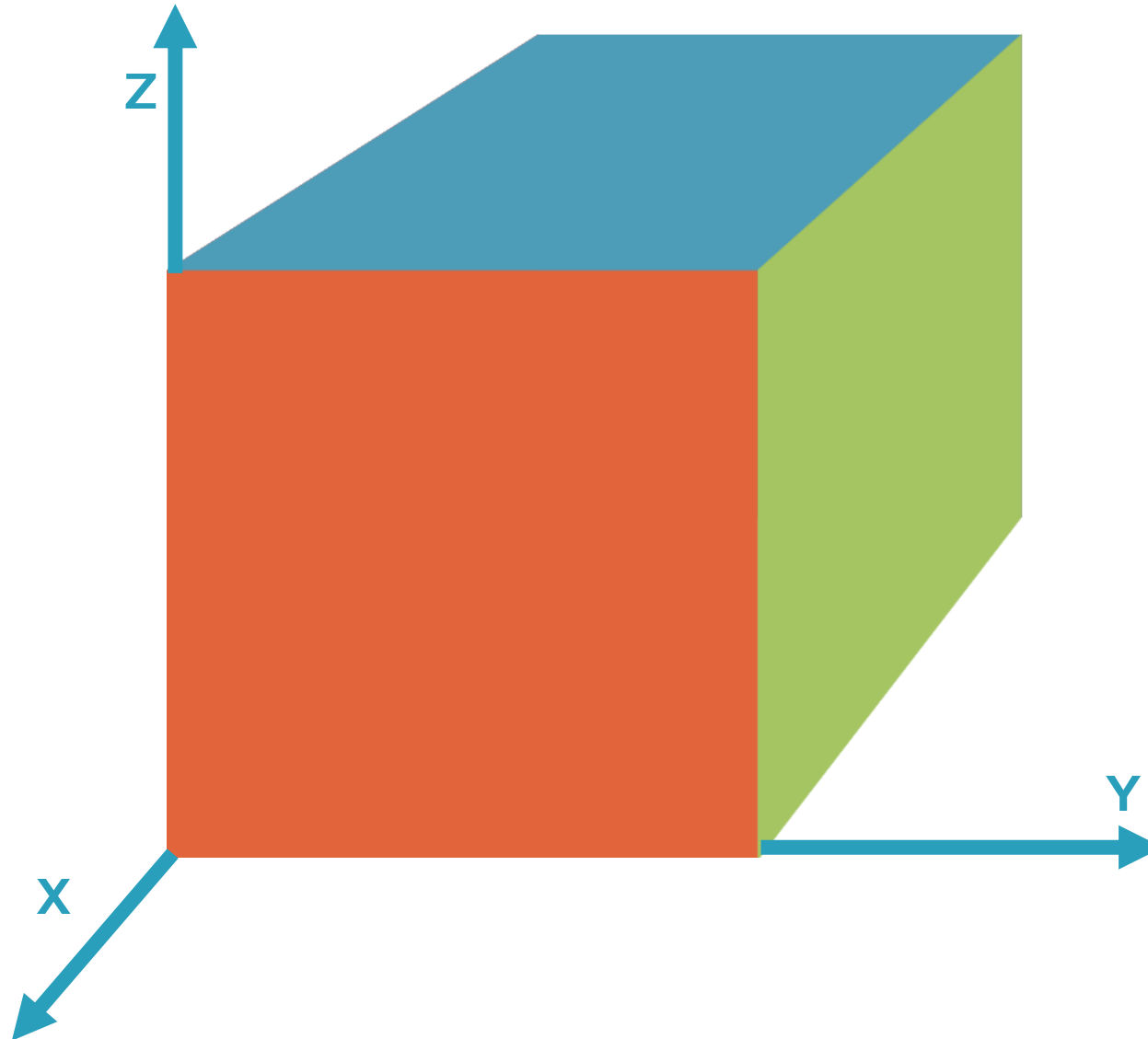
`translateY(100)`



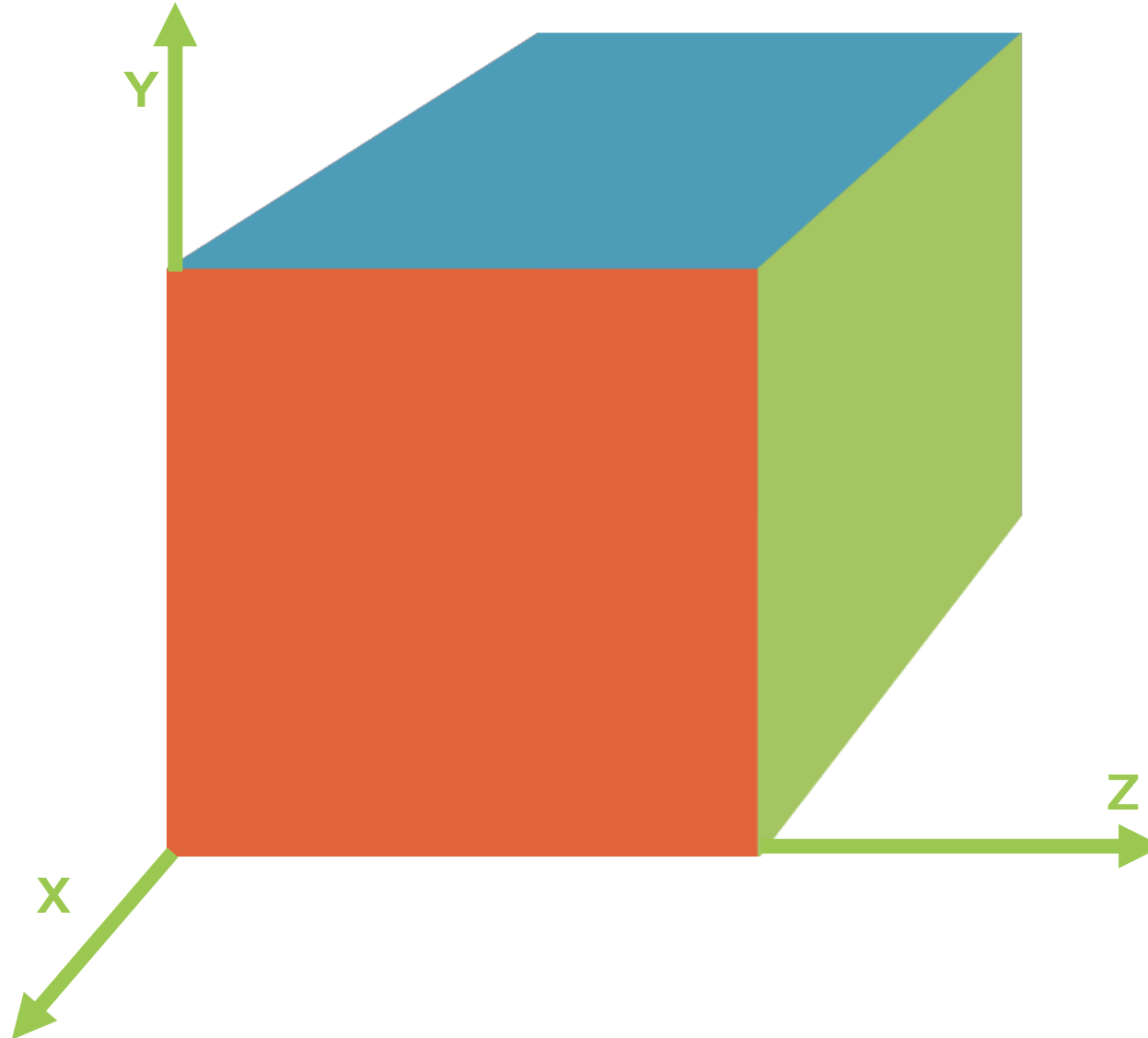
translateZ(200)



How to translateZ



How to translateZ



You're working with
individual objects (divs) and
not the entire cube





3D transformations could be their own course





“Can we put the ingredients on the back?”



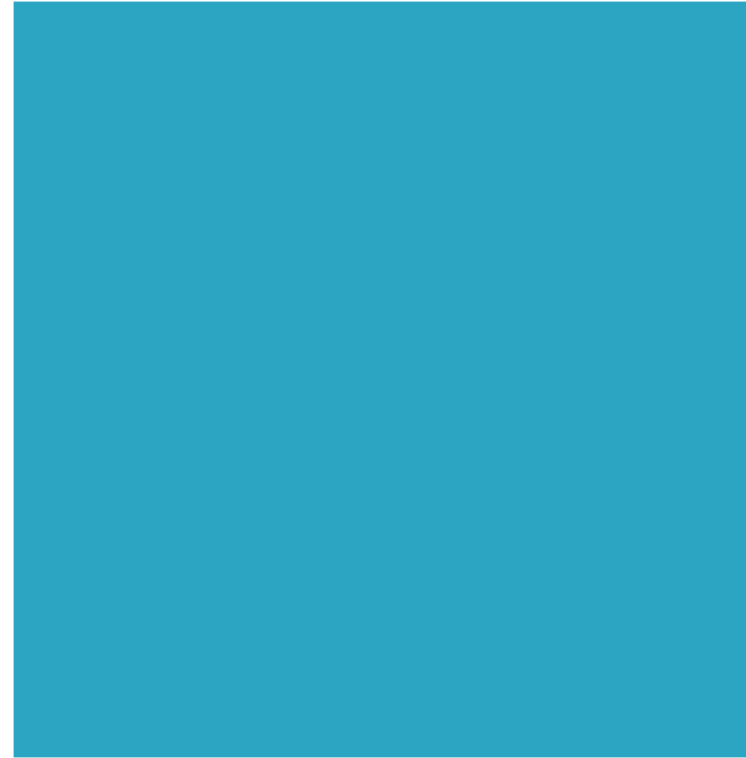
Setting Up the Cards



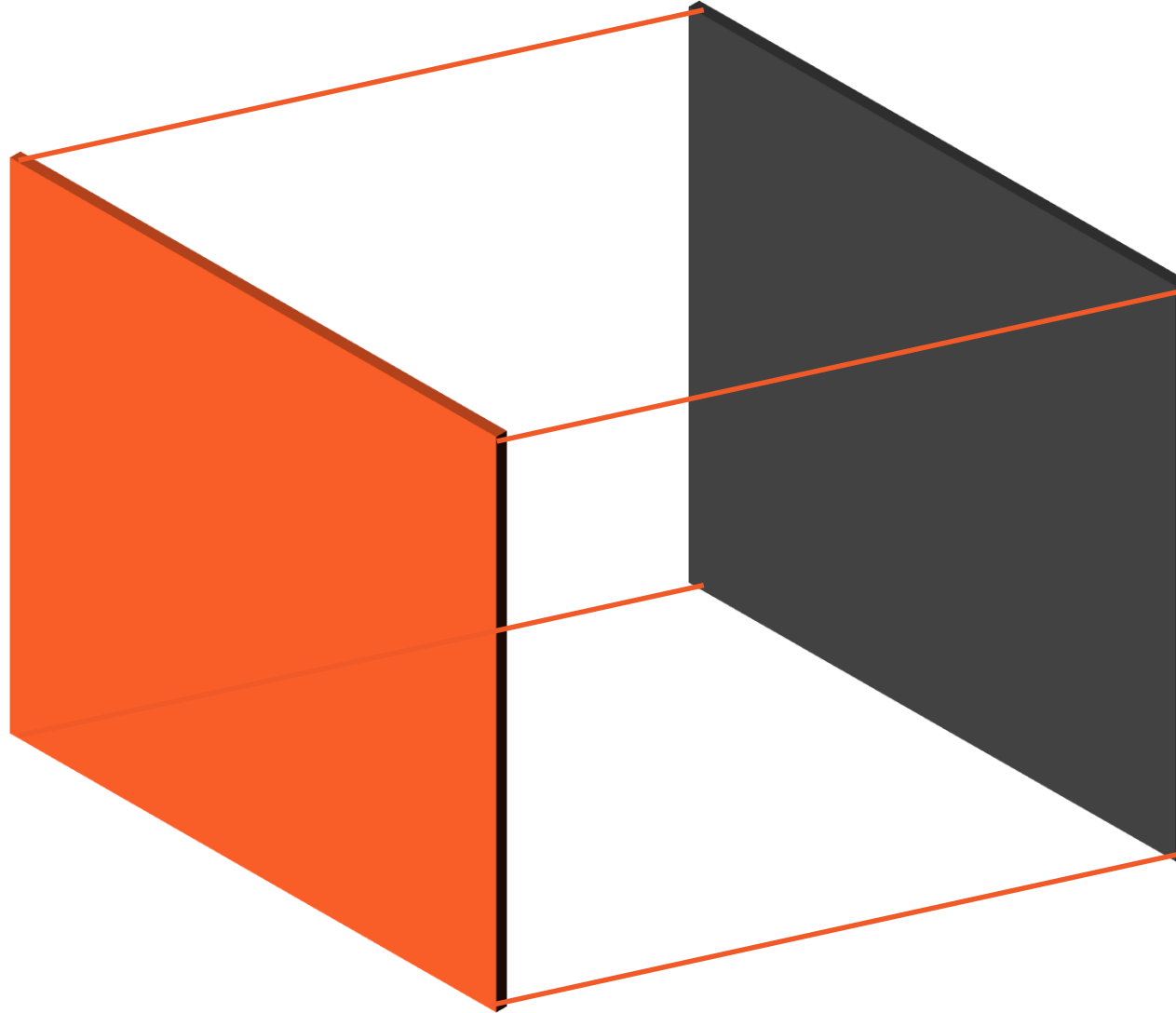
Flipping the Cards



Two Separate div Tags



Inner Container



Inner Container

