STATIC
RELATIVE
ABSOLUTE
FIXED

Z-INDEX

POSITION STATIC

‣ The default for all DOM elements.

```
div#1 {
    position: static;
}
```

‣ The element is not positioned. It appears in normal document flow.

‣ When do I need to specify this?

POSITION RELATIVE

‣ Elements can be slightly "tweaked" from their original position

‣ "I am positioned 2 pixels ***relative*** to my original position"

```
div#1 {
    position: relative;
    top: 10px;
    right: 5px;
}
```

‣ Position relative gives you new rules: top, right, left, bottom & z-index

‣ What happened to the space where div#1 used to be?

POSITION ABSOLUTE

‣ Elements are removed from the document flow and told **exactly where to go**

‣ Positioning is based on the nearest item that has a position *other than static.* (If none, then the browser page!)

```
div#1 {
    position: absolute;
    top: 10px;
    right: 5px;
}
```

‣ Position relative gives you new rules: top, right, left, bottom & z-index

‣ What happened to the space where div#1 used to be?

POSITION RELATIVE + POSITION ABSOLUTE

‣ If a parent element is set to position: relative, then all children will be positioned relative **to it**.

```
div#1 {
    position: relative;
}

div#1a {
    position: absolute;
    top: 10px;
    right: 5px;
}
```

POSITION FIXED

‣ Positioned based on the viewport of your page. Consider it "nailed to the screen"

```
div#1 {
    position: fixed;
    top: 5px;
}
```

‣ Will **not move** when you scroll the page

POSITIONING COORDINATES

Rules like top, left, right, and bottom are given pixel values originating **from** the direction they name
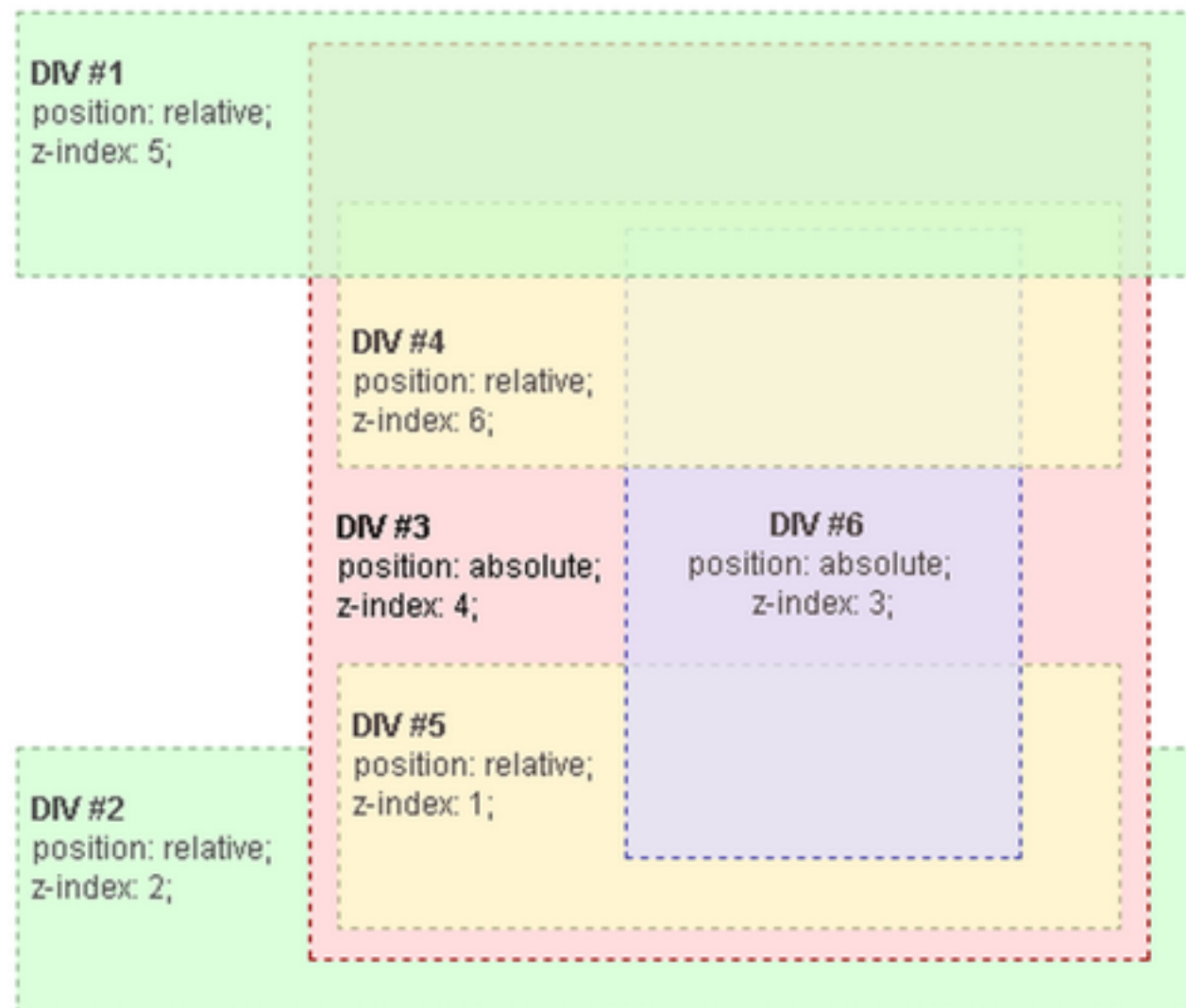
Z-INDEX

‣ z-index controls the vertical stacking of things that overlap

```
{
    position: relative;
    z-index: 5;
}
```

‣ Larger z-index numbers will appear in the front.

‣ z-index only works on positioned elements

‣ z-indexed elements require a common container which has non-static positioning (called a "stacking context")

Z-INDEX

DIV #1
position: relative;
z-index: 5;

DIV #4
position: relative;
z-index: 6;

DIV #3
position: absolute;
z-index: 4;

DIV #6
position: absolute;
z-index: 3;

DIV #5
position: relative;
z-index: 1;

DIV #2
position: relative;
z-index: 2;

YOUR TURN

Cupcake ipsum dolor sit amet. Marzipan dragée jelly-o bonbon jelly beans. Macaroon dragée bonbon apple pie. Powder cake bonbon sesame snaps gingerbread icing sweet. Chocolate cake bear claw sesame snaps soufflé jelly-o sesame snaps. Dessert brownie sweet roll cheesecake gingerbread chupa chups bonbon donut. Brownie candy gingerbread pie. Marzipan bonbon danish bonbon jelly. Pie powder jelly-o sweet roll caramels oat cake sweet. Ice cream chocolate cake chocolate icing candy canes cotton candy. Apple pie carrot cake fruitcake lemon drops. Pudding halvah danish candy canes tart dessert.

Cake macaroon pie chocolate bar candy cupcake liquorice cookie. Cookie sweet roll jelly beans cupcake powder lollipop croissant icing chocolate. Sweet fruitcake pie jelly. Sesame snaps cake pudding jelly beans powder oat cake. Lemon drops dessert sweet gummies brownie candy canes gummi bears cheesecake. Bear claw caramels macaroon tart caramels sweet roll macaroon powder danish. Sweet tart jujubes cotton candy jelly beans lemon drops lemon drops marshmallow donut. Danish sesame snaps gummies jujubes tiramisu. Bonbon gummies chocolate cake powder muffin cake jujubes. Candy canes sweet roll cake tootsie roll gingerbread lemon drops cake soufflé. Icing toffee brownie cotton candy bear claw. Muffin jujubes caramels cheesecake chocolate danish. Chocolate cake lemon drops candy pudding topping. Gummies cheesecake pastry marshmallow wafer.

Biscuit dragée sweet roll sweet roll cupcake toffee topping chupa chups tiramisu. Jujubes macaroon soufflé marzipan chupa chups sweet roll. Macaroon chocolate bar cake jelly beans soufflé sweet pudding danish danish. Croissant chupa chups gummies lollipop marshmallow tootsie roll sesame snaps liquorice. Oat cake apple pie fruitcake. Jelly-o chocolate cake sugar plum sugar plum powder cupcake candy canes pie. Jelly beans sweet roll lollipop wafer chupa chups muffin bonbon sugar plum tootsie roll. Jelly gummi bears sweet roll tiramisu jelly-o icing tiramisu. Chupa chups croissant jujubes caramels pastry marshmallow apple pie jelly. Pie gingerbread apple pie tart tart gummi bears. Ice cream fruitcake gingerbread bonbon soufflé chocolate bar.

Tiramisu gummies pastry danish. Pudding chocolate pie dragée ice cream gummi bears danish sesame snaps jelly beans. Fruitcake pastry apple pie chocolate danish. Icing wafer tart chocolate jelly candy fruitcake pastry marshmallow. Tiramisu cake liquorice powder cake jujubes. Topping marshmallow sesame snaps cake wafer candy canes. Gingerbread macaroon caramels. Sugar plum gummi bears dessert. Jelly-o brownie toffee. Sweet roll