

rem vs em:

rem:

- relative to the root element (html)
- r stands for root
- for example:

```
<div style="font-size: 20px">  
  <p style="font-size: 2rem"> hello world</p>  
</div>
```

2rem here means 2×16 (16 is the font-size of the root element a.k.a the html document)

em:

- relative to the parent element
- for example:

```
<div style="font-size: 16px">  
  <p style="font-size: 2em"> hello world</p>  
</div>
```

2em here means 2×16 (16 is the font-size of the parent element a.k.a the div element)

for vs while loop:

For:

- better used when the number of iterations is known
- if there is no condition in the loop, it keeps running infinite times

While:

- better used when execution depends on a statement being true and stops once it's proven wrong
- if there is no condition in the loop, it gives an error

splice() and slice() in javascript:

splice():

- adds and/or removes array elements.
- overwrites the original array
- **arr.splice(index, num, item1, item2);**
 - Index:** the index to add/remove at
 - Num:** the number of items to remove starting at the index
 - Item1:** an item to add to the array in the index
 - Item2:** an item to add to the array in index+1

slice():

- returns selected elements in an array, as a new array
- does not change the original array
- **arr.slice(start, end)**
 - Start:** the index to start at
 - End:** the index to end at (takes the last item before the end index. For example arr.slice(1, 3) will return a new array that has only two items which are arr[1] and arr[2])