TA Lecture Notes
Feb 16, 2015

## Arrays

Find the average of the grades:

```
var a = [93,97, 82];
var a = [93,97, 82];
var count = 0;
for (var i=0; i<a.length; i++) {
//1st run: i == 0
//1st run: sum == 0, count == 1
//2nd run: i == 1
//3rd run: i == 2
    sum=sum + a[i];
//1st run: sum == 93, count == 0
//2nd run: sum == 93+97=190, count ==1
//3rd run: sum == 190+82 =272, count == 2
    count = count+1;
//1st run:sum == 93, count == 1
//2nd run:sum == 190, count == 2
//3rd run: sum == 272, count == 3
}
var avg = sum/count;
console.log(avg);
```

|  | Run Session |
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| Native Chrome JavaScript. |  |
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Run Session
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:

Suppose there is a sale where items over $\mathbf{\$ 2 0 . 0 0}$ are $\mathbf{3 0 \%}$ off. What is the total, after-sale price of the order?

```
var items = [ 10.50, 22.30, 82.13, 4.32, 53 >1 ];
var total =0;
//Over $20.00 -> 30% off
for (var i = 0; i<items.length;i++) {
    var item = items[i];
    if (item > 20) {
        total = total + ( item*0.7 );
    }
    else {
        total = total + item;
    }
}
console.log("Total: ");
console.log(total);
```



## Conditionals



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## Count how many vowels in "Illinois"

```
var s = "Illinois";
var vowels = 0;
for(var i=0; i<s.length; i++) {
    var c=s[i];
    if(s[i]=='a'||s[i]=='e'||s[i]=='i'||s[i]
    =='o'||s[i]=='u') {
            vowels = vowels +1;
        }
    if(s[i]=='A'||[i]=='E'||[i]='I'||s[i]
=='0'||s[i]=='U') {
        vowels = vowels + 1;
    }
}
console.log(vowels);
```

