

ITP JS: Week 5

HW

1. Read the following article on JavaScript Prototypes:

- <https://medium.com/better-programming/prototypes-in-javascript-5bba2990e04b>

To tackle further tasks, it is essential that you go through the reading. Now based on your reading, look at the code from previous class (fixed code error of prototype chaining):

<https://pastebin.com/PLnKCqKp>

2. Suppose that you're working in a small town administration, and you're in charge of two town elements:

- Parks
- Streets

It's a very small town, so right now there are only 3 parks and 4 streets. All parks and streets have a name and a build year.

At an end-of-year meeting, your boss wants a final report with the following:

- Tree density of each park in the town (formula: number of trees/park area)
- Average age of each town's park (formula: sum of all ages/number of parks)
- The name of the park that has more than 1000 trees
- Total and average length of the town's streets
- Size classification of all streets: tiny/small/normal/big/huge. If the size is unknown, the default is normal

All the report data should be printed to the console. No need to use DOM manipulation, all information will be hardcoded.

NOTE #1: In class, I showed you the old way of doing OOP in JavaScript. Although, there are newer syntax in JavaScript ES6 which is very similar to other programming

languages. But for now, you **can't** use ES6 classes, those will be taught later. You have to follow the way taught in my class

NOTE #2: You're advised to use let/const, arrow functions and all new things taught in the last class, as much as you can. **Also, you can use the sample code provided in Question 1 as a reference.**

Prepared By

Ahmed Sadman Muhib

Full-Stack Instructor