**let vs var - fast text summary**

**let** and **var** are both words we use to make variables in our computer program. A variable is like a box where we can put a value, like a number or a word.

**let** is a newer way to make a variable. It is only for this one block of code, like a puzzle piece that only fits in one spot. **var** is an older way to make a variable. It can be used in lots of different places, like a puzzle piece that fits in lots of different spots.

Sometimes we need to use,**let** and sometimes we need to use **var**. It all depends on what we are trying to do with our program. But it is good to know about both of them!"

One important difference between **let** and **var** is that **let** has what is called "temporal dead zone." This means that you cannot access a **let** variable before it is declared. If you try to access a **let** variable before it is declared, you will get a reference error. This is not the case with **var**.

Here's an example to illustrate the difference between **let** and **var**:

1. function doSomething() {
2. console.log(x); // ReferenceError: x is not defined
3. let x = 10;
4. }
6. function doSomething() {
7. console.log(x); // undefined
8. var x = 10;
9. }

* **let** is a newer way to declare variables in JavaScript. It was introduced in the ECMAScript 2015 (ES6) version of the language.
* **let** variables are attached to the nearest block scope. This means that they are only visible within the block of code in which they are declared.
* **let** has what is called a "temporal dead zone." This means that you cannot access a **let** variable before it is declared. If you try to access a **let** variable before it is declared, you will get a reference error.
* **var** variables are attached to the nearest function scope or the global scope, depending on where they are declared.
* **var** does not have a temporal dead zone. You can access a **var** variable before it is declared, and it will have a value of **undefined**.

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Description automatically generated with medium confidence

I hope that helps! Let me know if you have any questions.