

ExcelScript (TypeScript)

Lucas Hasting

University of North Alabama

DA 380
Feburary 3, 2026



Outline

- ▶ TypeScript
- ▶ Script Example
- ▶ Demo
- ▶ References

Overview

TypeScript is a programming language that is a super set of JavaScript with static typing instead of dynamic typing [3].

Variables/Loops [4]

```
1 let example1 = 'Hello';
2 const example2: Number = 5;
3
4 for(let i = 0; i < 10; ++i){
5     console.log('Hello World\n');
6 }
```

Objects

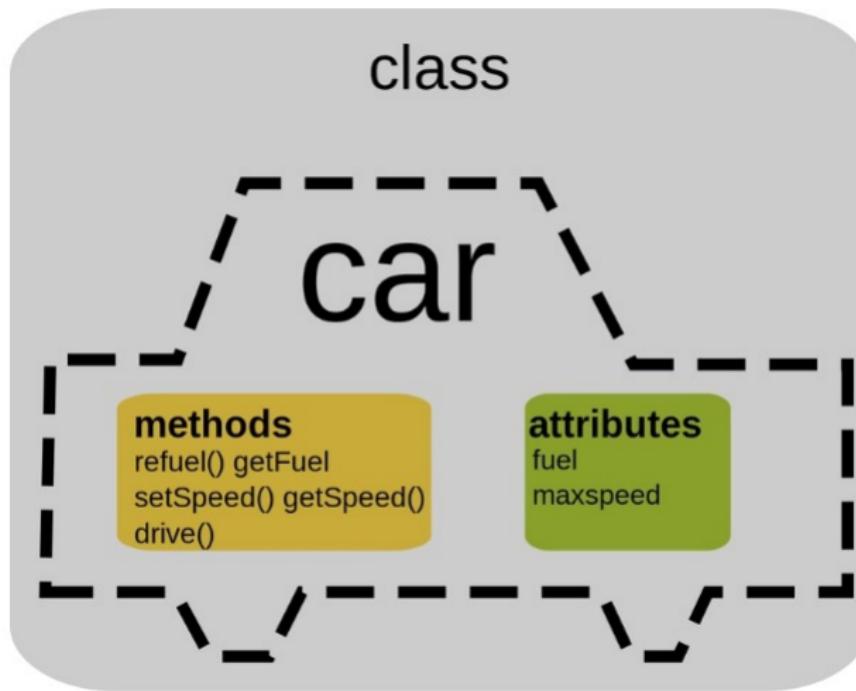


Figure 1: Car Object [1]

ExcelScript

ExcelScript is an object provided by Excel to interact with Excel in the TypeScript language. This type of interaction is called an Application Programming Interface (API) [2].

Long Data to Wide Data Script

osts: https://drive.google.com/file/d/1b235SZ6qQHxX6jl_spGXqLQ08gH4XrD2/view?usp=sharing

ts: <https://drive.google.com/file/d/1yryPKQU2GwN911o5N3CPsjC8fdWsFdg5/view?usp=sharing>

Menu

Office Scripts - https://fa00000043.mro1cdnstorage.public.onecdn.static.microsoft/mro1cdnstorage/033f92d3-bc6d-439a-858a-a17... >

X

Enter Parameters for Long to wide



Long to wide

Hasting, Lucas Wilburn's OneDrive - University of North Alabama » Documents » Office Scripts

⚠ Please complete all required fields

group_by *

Enter a string (ex. abcd)

grouped_data *

Enter a string (ex. abcd)

output_col *

Enter a string (ex. abcd)

Figure 2: Menu

Demo

<https://youtu.be/o9Hsfz1HLKU>

References |

 JACK PRITOM SOREN.

Class and object in oop.

[https:](https://dev.to/jps27cse/class-and-object-in-oop-291j)

//dev.to/jps27cse/class-and-object-in-oop-291j.

Accessed: 2026-02-01.

 MIRCOSOFT.

An excelscript package.

<https://learn.microsoft.com/en-us/javascript/api/office-scripts/excelscript?view=office-scripts>.

Accessed: 2026-02-01.

 TYPESCRIPT.

TypeScript.

<https://www.typescriptlang.org/>.

Accessed: 2026-02-01.

References II



TYPESCRIPT.

TypeScript documentation.

[https://www.typescriptlang.org/docs/.](https://www.typescriptlang.org/docs/)

Accessed: 2026-02-01.