

# CoffeeScript

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# CoffeeScript - “*It’s just JavaScript*”

- Simplifies writing JavaScript code
- Compiles one-to-one to the equivalent JavaScript
- No interpretation at runtime
- Can use any existing JavaScript library
- Compiled code is readable, pretty-printed, and fast

# Simplifies JavaScript

- Declare variables without using var
- No semicolons, parenthesis, curly braces
- Less lines of code to write
- Easy to read, reads like pseudocode

# Code Sample

```
# Health conscious meal.  
foods = ['broccoli', 'spinach', 'chocolate']  
eat food for food in foods when food isnt 'chocolate'
```



```
// Health conscious meal.  
foods = ['broccoli', 'spinach', 'chocolate'];  
  
for (l = 0, len2 = foods.length; l < len2; l++) {  
  food = foods[l];  
  if (food !== 'chocolate') {  
    eat(food);  
  }  
}
```

# How to Use It

- Uses NodeJS
  - `npm install --save-dev coffeescript`
- File extension
  - `filename.coffee`
- To compile to JavaScript:
  - `coffee -c filename.coffee`
- To execute the JavaScript:
  - `node filename.js`

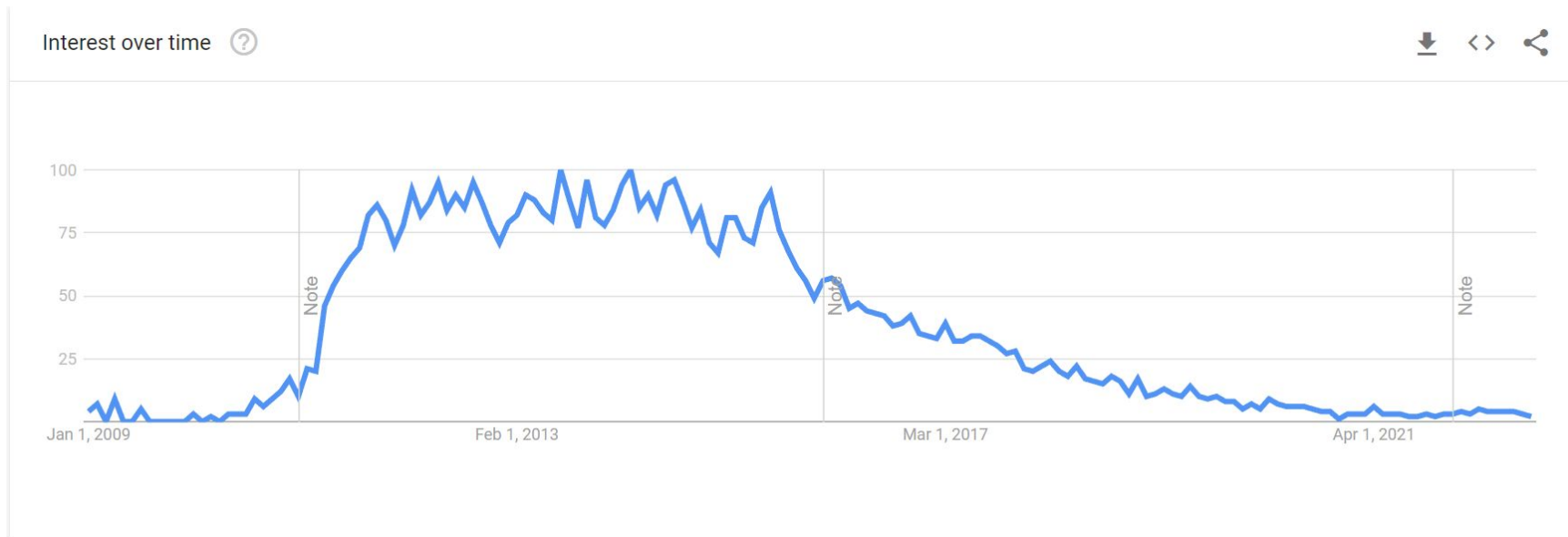
Use with HTML using `<script>` tag

```
<script type="text/coffeescript">
```

```
</script>
```

# Cons

- With ES6 release and release of other languages, CoffeeScript is less needed
- Because of alternatives and upgrades to JavaScript, CoffeeScript is no longer widely used



# Sources

- <https://coffeescript.org/>
- <https://javascript.plainenglish.io/coffeescript-6dd64142b8dd>
- <https://trends.google.com/trends/explore?date=2009-01-01%202022-10-21&geo=US&q=coffeescript>
- <https://www.geeksforgeeks.org/coffeescript-introduction/>