



# SuiteScript



An introduction to NetSuite  
customization



# What Is SuiteScript?

- Enhanced Automation
  - Custom Business Logic
  - Scripting language based on JavaScript
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# Enhanced Automation

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- Automates business processes such as order processing, inventory management, and financial reporting, reducing manual effort and increasing efficiency.
- Example: Inventory Reorder Automation
  - Use a Scheduled Script to run daily checks on inventory levels.
  - When an item falls below the predefined threshold, the script automatically generates a purchase order to the preferred vendor.
  - The script can also send notifications to the procurement team for tracking purposes.

# Custom Business Logic

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- Allows businesses to implement custom validations, calculations, and complex logic that are not available in standard NetSuite features.
- Example: Custom Discount Calculation on Sales Orders
  - A User Event Script runs when a sales order is created or edited.
  - The script checks the customer type (e.g., VIP, regular) and order amount to apply a tiered discount rate.
  - It updates the sales order's discount field with the calculated value and adjusts the total accordingly.

# Basics of JavaScript

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Why JavaScript?

- SuiteScript is JavaScript with NetSuite - specific functionality.

There are near-endless resources online for learning JavaScript.  
We will touch briefly on some of the core concepts in this tutorial.

Core JavaScript Concepts:

1. [Data Types](#)
2. [Variables](#)
3. [Operators](#)
4. [Control Structures](#)
5. [Functions](#)

A yellow square containing the letters 'JS' in a bold, black, sans-serif font, representing the JavaScript logo.

# Variables

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Variables are used to store data. The basic building blocks of your code

- let (Can be changed later in code)

```
let total = 0; // total can be updated later  
total = 100; // reassigned value
```

- const (Can't be changed later in code)

```
const TAX_RATE = 0.07; // This value should not change  
TAX_RATE = 0.10 // Attempting to reassign TAX_RATE would cause an error
```

[Additional Information](#)

# Data Types

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Types of data supported by JavaScript. These are typically stored in variables

- Number
- String (enclosed in parenthesis)
- Boolean (true/false)
- Null
- Undefined
- Objects
- Arrays

```
let quantity = 10; // Number
let itemName = 'Laptop'; // String
let isAvailable = true; // Boolean
let lineItem = null; // Null (used often when a record does not exist)
let willUseLater; // Undefined (Create the empty variable to be assigned later)
```

[Additional Information](#)

# Collections of Data in JavaScript

- Objects
  - An object in JavaScript is a collection of related data and functionalities, represented as key-value pairs.
- Arrays
  - Arrays are lists of data
  - Can be any data type

Object additional info

Arrays additional info

```
// Creating a simple customer object (this data could come from a Saved Search)
let customer = {
  firstName: 'John',           // Customer's first name (Key = firstName, Value = John)
  lastName: 'Doe',            // Customer's last name (Key = lastName, Value = Doe)
  email: 'john.doe@example.com', // Customer's email
  phone: '555-1234'           // Customer's phone number
};

/*
Set the value of a custom field in Netsuite using
the customer object
*/
record.setValue({
  fieldId: 'custbody_firstName',
  value: customer.firstName
})

// Arrays are lists enclosed in brackets []
let listOfCustomers = [customer, customer2, customer3]
```



# Operators

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Operators perform operations on variables and values.

- Arithmetic operators (+, -, \*, /, %.)
- Comparison Operators (==, !=, ===, !==, >, <.)
- Logical Operators (&&, ||, !)

[Additional Information](#)

# Arithmetic Operators

Arithmetic operators are used to perform basic mathematical operations on numbers.

+ (Addition)

- (Subtraction)

\* (Multiplication)

/ (Division)

% (Modulus)

```
// + (Addition): Adds two numbers.
let subtotal = 200;
let tax = 20;
let total = subtotal + tax; // 220
log.debug('Total Amount', total);

// - (Subtraction): Subtracts one number from another.
let price = 100;
let discount = 10;
let finalPrice = price - discount; // 90
log.debug('Final Price', finalPrice);

// * (Multiplication): Multiplies two numbers.
let quantity = 5;
let unitPrice = 20;
let totalCost = quantity * unitPrice; // 100
log.debug('Total Cost', totalCost);

// / (Division): Divides one number by another.
let totalAmount = 200;
let numberOfItems = 4;
let averagePrice = totalAmount / numberOfItems; // 50
log.debug('Average Price', averagePrice);

// % (Modulus): Returns the remainder of a division.
let totalItems = 11;
let itemsPerBox = 4;
let remainingItems = totalItems % itemsPerBox; // 3
log.debug('Remaining Items', remainingItems);
```

# Comparison Operators

Comparison operators are used to compare values and return a boolean (true or false).

== (Equality)

=== (Strict Equality)

!= (Inequality)

> (Greater than)

< (Less Than)

>= (Greater than or equal to)

<= (Less than or equal to)

```
// == (Equality): Checks if two values are equal (loose comparison).
let orderStatus = 'active';
if (orderStatus == 'active') {
  | log.debug("Orders status is Active")
}

// === (Strict Equality): Checks if two values are equal and of the same data type.
let itemPrice = 25
if (itemPrice === "25"){//Since item price is a NUMBER data type and "25" is a STRING data type return WILL NOT be reached
  | return
}
if (itemPrice == 25){ // since item price and 25 are both NUMBER data types return WILL be reached
  | return
}

// != (Inequality) also (!== Strict Inequality) : Checks if two values are not equal.
const REQUIRED_RECORD_TYPE = 'SalesOrder';
let editedRecordType = 'CashSale'
if (REQUIRED_RECORD_TYPE != editedRecordType){
  | throw error; // Since the required record type doesn't match the record being edited we don't want the script to continue
}

// > (Greater Than): Checks if the left value is greater than the right value. (Same with < <= and >=)
let stockLevel = 5;
let reorderThreshold = 10;
let needsReorder = stockLevel < reorderThreshold; // true
log.debug('Needs Reorder', needsReorder);
```

# Logical Operators

Logical operators are used to combine or invert boolean values.

&& (Logical AND)

|| (Logical OR)

! (Logical NOT)

```
// && (Logical AND): Returns true if both conditions are true.  
let isInStock = true;  
let canSell = isAvailable && isInStock; // true
```

```
///|| (Logical OR): Returns true if at least one condition is true.  
let hasPermission = false;  
let isAdmin = true;  
let canAccess = hasPermission || isAdmin; // true
```

```
// ! (Logical NOT): Inverts the boolean value; true becomes false and vice versa.  
let isComplete = false;  
let isPending = !isComplete; // true
```

# Control Structures

[Additional Information](#)

Control structures manage the flow of code execution.

## Common Control Structures:

- If - Else Statements
  - Perform logic if a statement is true
- For Loops
  - Runs a predetermined number of times

```
// If / Else Statement, can be chained with multiple else's
if (customerName === 'John Doe') {
  log.debug('Customer Found', 'Customer is John Doe');
} else {
  log.debug('Customer Not Found', 'Different Customer');
}

//           index 0      index 1      index 2
let customerList = [customer1, customer2, customer3]
// For loop, iterate (loop) over data
for (let i = 0; i < 3; i++) {
  log.debug(customerList[i]); // This will log the value of customerList at the stated index
}

// let i = 0 initializes the counter variable,
// i < 3 means this loop will continue while the value of i is less than 3
// i++ at the end of every loop the value of i will increase by 1.
// The loop will end and the code will continue on once the "i < 3" value is no longer true
```

# Functions

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Functions are reusable blocks of code that are often given parameters (input) and produce a result (output) when called.

1. Declare the function
2. Declare parameters
3. Return a value
4. Call the function

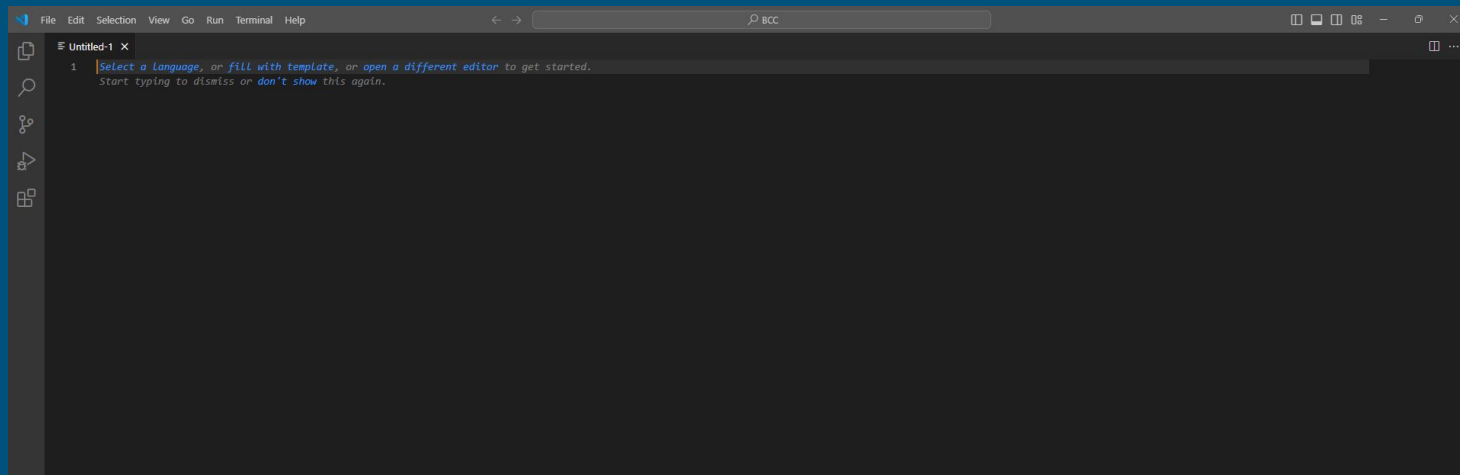
```
1. function updateAmount(originalAmount, additionalCost){ 2.
    let updatedAmount = originalAmount + additionalCost;
    3. return updatedAmount;
};
    4. let correctAmount = updateAmount(25, 10); // 35 will be returned from the function
```

# Download a Text Editor

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This is where you will write your code.

- [Visual Studio Code](#)

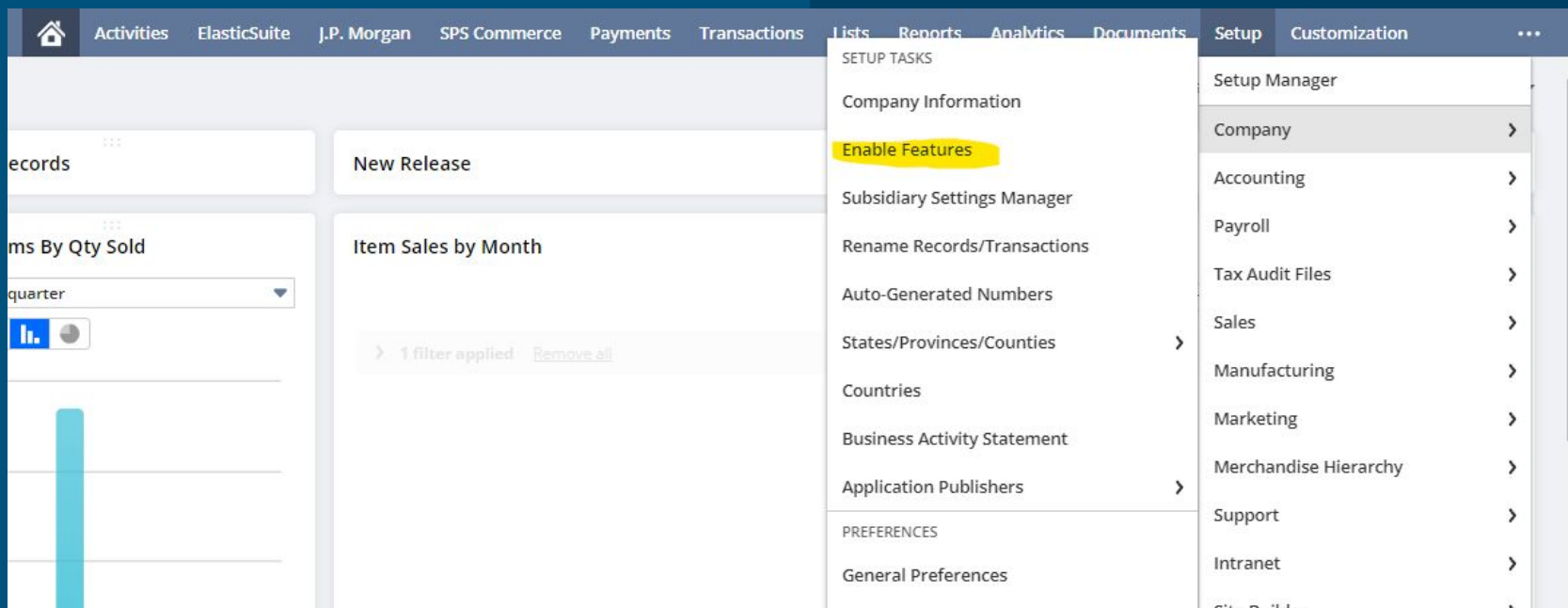


# Setting up Netsuite Account to Use SuiteScript





# Setup -> Company -> Enable Features



# Enable Client and Server SuiteScript

## Enable Features

Save

Cancel



Subsidiary Feature: After enabling this feature, you must enable and set preferences for individual subsidiaries using the [Subsidiary Settings Manager](#).

Company Accounting Tax Transactions Items & Inventory Employees CRM Analytics Web Presence **SuiteCloud**

VIEW SUITECLOUD [TERMS OF SERVICE](#)

### SuiteBuilder

☒ ITEM OPTIONS

ASSIGN CUSTOM TRANSACTION ITEM OPTION FIELDS TO THE LINE ITEMS OF YOUR TRANSACTION RECORDS.

☒ CUSTOM RECORDS

COLLECT INFORMATION SPECIFIC TO YOUR BUSINESS THAT CAN BE INTEGRATED WITH STANDARD NETSUITE RECORDS.

☒ ADVANCED PDF/HTML TEMPLATES

ENABLE POWERFUL, TEMPLATE-BASED RENDERING OF SELECTED TRANSACTIONS.

☒ REMOVE PERSONAL INFORMATION

ENABLE PI REMOVAL TOOL.

### SuiteScript

☒ CLIENT SUITESCRIPT

USE INDUSTRY-STANDARD JAVASCRIPT TO DO ADVANCED CLIENT-SIDE CUSTOMIZATION OF YOUR FORMS.

☒ SERVER SUITESCRIPT

USE INDUSTRY-STANDARD JAVASCRIPT TO DO ADVANCED SERVER-SIDE CUSTOMIZATION OF YOUR BUSINESS PROCESSES.

### SuiteFlow

☒ SUITEFLOW

AUTOMATE BUSINESS PROCESSES WITHOUT WRITING A LINE OF CODE USING VISUAL WORKFLOW MANAGEMENT BUILT ON THE POWER OF SUITESCRIPT.

### SuiteGL

☒ CUSTOM GL LINES

SUPPORT PLUG-INS THAT ALLOW FOR GL IMPACT CUSTOMIZATION.

☒ CUSTOM TRANSACTIONS

ALLOW FOR THE CREATION OF CUSTOM TRANSACTION TYPES SPECIFIC TO YOUR BUSINESS.

☒ CUSTOM SEGMENTS

ALLOW FOR THE CREATION OF CUSTOM SEGMENTS SPECIFIC TO YOUR BUSINESS.

### SuiteBundler

# Roles + Permission

- NetSuite Administrator role has full SuiteScript access
  - [Setting up Custom Roles + Permissions](#)
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# Accessing SuiteScript API Documentation

NetSuite provides rich documentation about how to use SuiteScript

1. [Access the SuiteScript API documentation](#)
  2. Use the search bar to find specific help
  3. Use the side menu to look through all available documentation
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# What did we learn?

1. What SuiteScript is
2. Foundations of JavaScript
3. Enabling SuiteScript in your NetSuite account

