

# isobar

Welcome to isobar.ch
Portugal

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Week #1 - Practical Lesson #1

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## Developer hub

A place to start to be a Developer!

Go to https://developer.salesforce.com/

- Get technical documentation about Salesforce.
- Learn more about how use Salesforce, how develop apps, and many more.
- Know more about Tools related to Salesforce and development.
- Can connect with the Community and other users.
- News about Salesforce updates.



## **Developer Org**

If you haven't done this already

A developer org has all the features and licenses you need to get started with Salesforce Identity for Customers and Partners.

Go to <a href="https://developer.salesforce.com/signup">https://developer.salesforce.com/signup</a>.

- 1. Enter your contact information.
- Enter a unique username.
- Submit the form and wait for your welcome email.
- 4. In the welcome email, click the link to set your password.
- 5. That's it—you now have your own developer org.



## **Visual Studio Code**

#### First, What's an IDE?



An IDE, or integrated development environment, typically consists of a code editor, build automation tools, a debugger, and intelligent code completion.









## **Visual Studio Code**

#### Let's install it

You can install Visual Studio Code on any computer running macOS, Windows, or Linux.

Download and install the latest version of Visual Studio Code for your operating system.

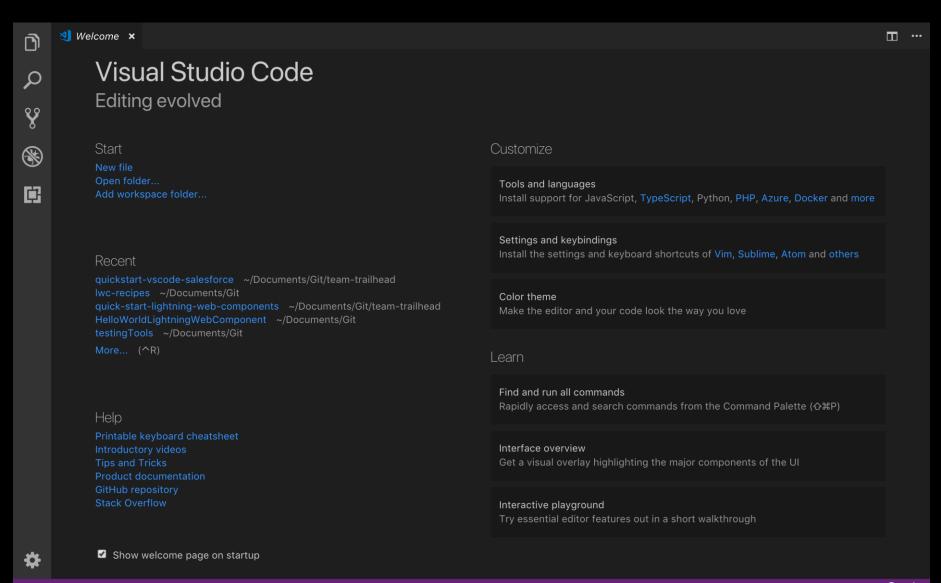
If you already have Visual Studio Code installed, there's no need to reinstall it.

Download: <a href="https://code.visualstudio.com/">https://code.visualstudio.com/</a>

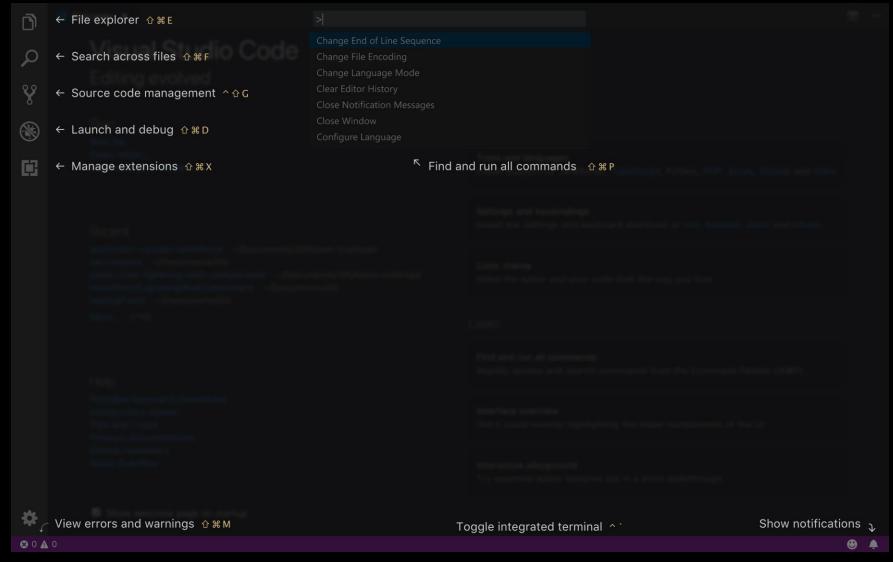




## **User Interface**



Under Learn, click Interface Overview to view a visual overview of the different features of Visual Studio Code.



#### **Install the Command Line Interface (CLI)**

Download the CLI using the appropriate link below.

macOS <a href="https://sfdc.co/sfdx cli osx">https://sfdc.co/sfdx cli osx</a>

Windows 32-bit <a href="https://sfdc.co/sfdx cli win">https://sfdc.co/sfdx cli win</a>

Windows 64-bit <a href="https://sfdc.co/sfdx\_cli\_win64">https://sfdc.co/sfdx\_cli\_win64</a>

Debian/Ubuntu 64 https://sfdc.co/sfdx cli linux

Download the archive from one of the URLs in the manifest, extract the archive, then run the ./install script.

Debian/Ubuntu x86 https://sfdc.co/sfdx\_cli\_linux\_x86

Download the archive from one of the URLs in the manifest, extract the archive, then run the ./install script.

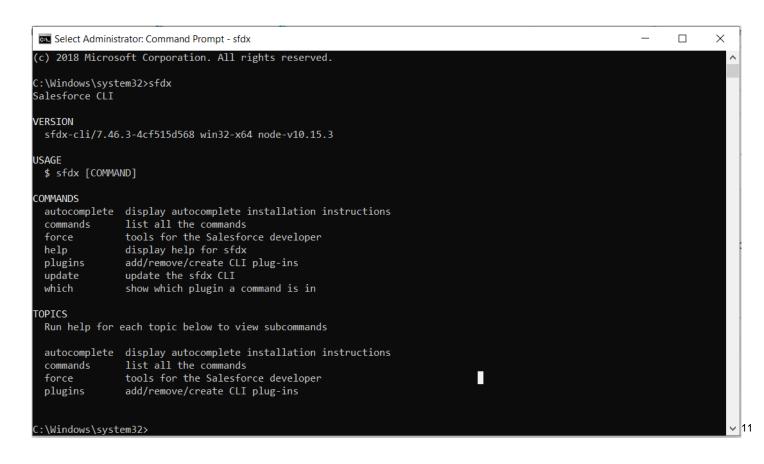


#### Make sure the CLI is properly installed

Open the terminal app in macOS or the Command Prompt in Windows and enter **sfdx**.

Can try: sfdx update

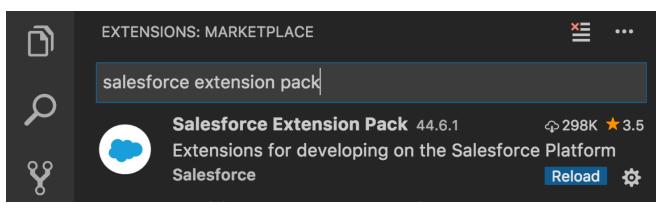
(to update the CLI)





#### **Install the Salesforce Extension Pack**

- Launch Visual Studio Code
- 2. On the left toolbar, **click** the Extensions icon
- Enter Salesforce Extension Pack in the search field.

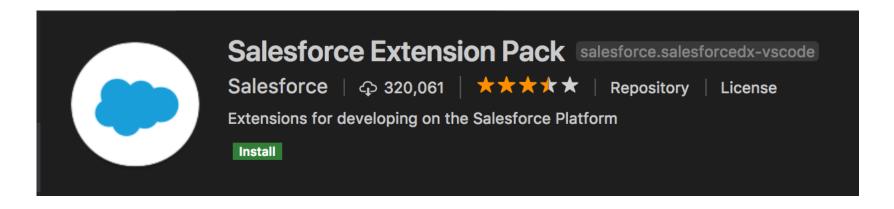


4. Click into the card that says Salesforce Extension Pack



#### **Install the Salesforce Extension Pack**

5. Then in the newly launched window, click the green **Install** button

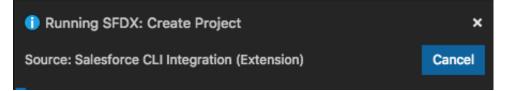


6. Close and relaunch Visual Studio Code to complete the installation.

## Use Visual Studio Code for Salesforce Development

#### **Create a Project**

- Press Command + Shift + P on Mac or Ctrl + Shift + P on Windows to make the command palette appear.
- 2. Make sure the new prompt starts with >
- 3. Type SFDX: Create Project with Manifest
- 4. Press Enter. Then, press Enter again to select the **Standard** template.
- 5. Type: VSCodeQuickstart.
- 6. Select your Desktop as the place to create the project in so it is easy to find later on.
- 7. Wait for the new Visual Studio Code window to open. You should see an indication that the extension is preparing your project before populating the file explorer.

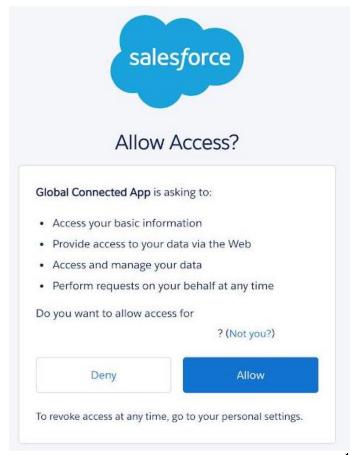




## Use Visual Studio Code for Salesforce Development

#### **Authenticate into Dev Org**

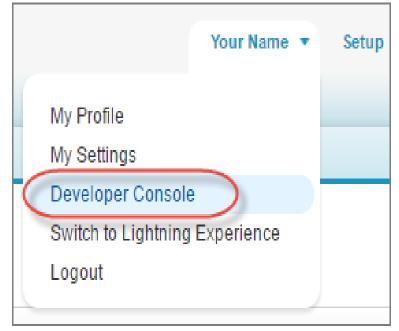
- Press Command + Shift + P on Mac or Ctrl + Shift + P on Windows to make the command palette appear.
- 2. Type SFDX: Authorize an Org.
- 2. To accept the default login URL, press Enter.
- 3. Enter the alias VSCodelsobarClass.
- 4. Notice that your default browser opens a new Salesforce login window. Log in to your dev org.
- 5. When you are asked to grant access to the connected app, click to allow.

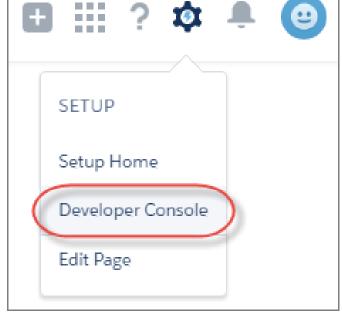




## Developer Console

- 1. What Is the Developer Console?
- 2. When Do You Use the Developer Console?
- 3. Accessing the Developer Console



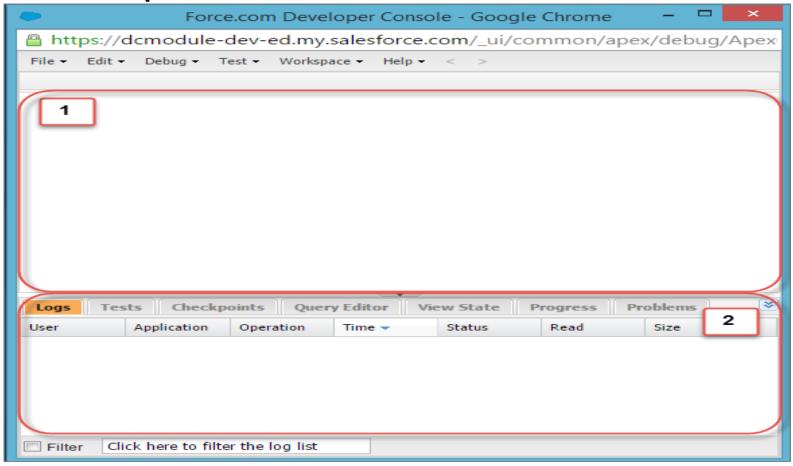


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Salesforce Classic

**Lightning Experience** 

## Developer Console



The main pane (1) is the source code editor, where you can write, view, and modify your code.

The tabs pane (2) is where you can view logs, errors, and other information, and write queries to interact with the records in your org.



## Set Up Your Workspace

- 1. What is a workspace?
- 2. Create\ Switch workspace.

```
File - Edit - Debug - Test - Workspace -
EmailMissionSpecialist.apxc *
                            Switch Workspace
                                                  Apex Basics
                                                   Apex Testing
  Code Coverage: None -
                   API V
                            New Workspace...
    ▼ public class
                            Rename Current Workspace...
                                                  ist {
                            Workspace Manager
            // Public method
            public void sendMail(String address, Str
  4
  5
                  // Create an email message object
                  Messaging.SingleEmailMessage mail =
  6
                  String[] toAddresses = new String[]
```



## **Question time!**

If do you want to connect to multiple Orgs to edit classes, you will use?

Developer Console

Or

Visual Studio Code with Salesforce extension



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If do you want to connect to multiple Orgs to edit classes, you will use?

Developer Console



Or

Visual Studio Code with Salesforce extension



# Metadata and Objects



## Objects

**Objects** are tables in the Salesforce database that store a particular kind of information.

There are **standard objects** like Accounts and Contacts and **custom objects** created by developers and admins.

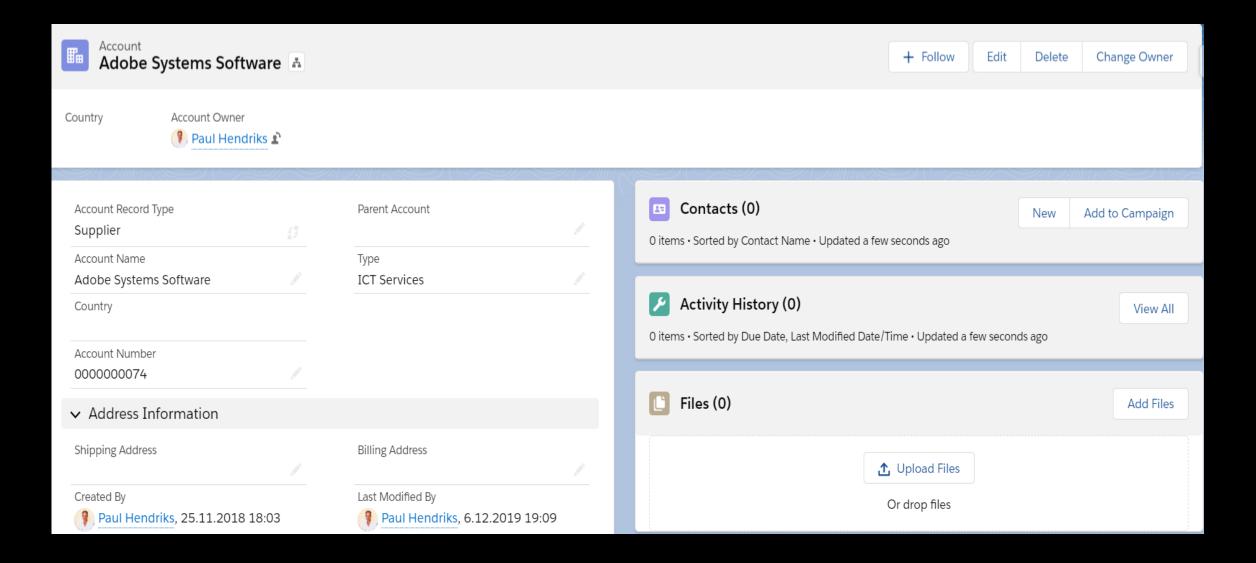
- Standard Objects These are objects included with Salesforce, by default, for example the
  objects used to store data in standard tabs such as accounts, contacts or opportunities.
- Custom Objects These are new objects you create to store information unique to your application. Custom objects extend the functionality that standard objects provide.

**Fields** are columns in object database tables. Both standard and custom objects have fields.

**Records** are rows in object database tables. Records are the actual data associated with an object.



#### **Example: Account**



## Object

#### **Custom Object Creation**

- 1. Click **Object Manager** tab next to the Home tab.
- 2. Click on **Create** dropdown at the right side and then select **Custom Object**.
- 3.On the Custom Object Definition page, create the object as follows:
  - Label: Starship
  - Plural Label: Starships
  - •Record Name: Starship Name
  - •Check the **Allow Reports** checkbox
  - •Check the **Allow Search** checkbox
  - Click Save.
- 4. Now create a custom tab. Click the **Home** tab, enter **Tabs** in Quick Find and select **Tabs**.
- 5.Under Custom Object Tabs, click New.
- 6. For **Object**, select **Starship**.
- 7. For **Tab Style**, select any icon.



8.Leave all defaults as is. Click Next, Next, and Save.

## Object

#### **Custom field creation**

- 1.From the gear icon ( 🏚 ), click **Setup** to launch the setup page.
- 2.Click the **Object Manager** tab.
- 3.Click **Starship**.
- 4. Under Fields & Relationships, click New.
- 5.A data type indicates what kind of information your field holds. For this field, pick *Number* and click **Next**.
- 6. The Field Label is what you see on the Startship page. Enter Quantity and click **Next**.
- 7.Click **Next** and then **Save**.



#### Metadata

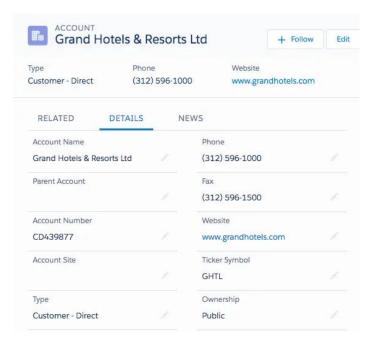
#### The structure of your org

Whether you're defining fields, business processes, or something more complex, metadata holds your configuration.

The platform then renders your app's metadata in the user interface along with its associated data.

You can see metadata in action on the record detail pages.

On this detail page for an account record, you can see field names like Type, Account Number, and Website. These are the metadata that define the structure of your app. The values of each of these fields are our actual data, and in terms of our data model, they aren't particularly relevant





## **Question time!**

#### It's only possible to create new fields on:

- Standard Objects
- Custom Objects
- In both (custom and standard objects)



## **Question time!**

#### It's only possible to create new fields on:

- Standard Objects
- Custom Objects
- In both (custom and standard objects)







#### **Import Data**

#### Data Import Wizard

- You need to load less than 50,000 records.
- The objects you need to import are supported by the wizard.
- You don't need the import process to be automated

#### Data Loader

- You need to load 50,000 to five million records.
- You need to load into an object that is not supported by the Data Import Wizard.
- You want to schedule regular data loads, such as nightly imports.



#### **Use Data Import Wizard**

- From Setup, enter Data Import Wizard in the Quick Find box, then select Data Import Wizard.
- Choose the data that you want to import
- To import accounts, contacts, leads, solutions, person accounts, or campaign members, click Standard
   Objects. To import custom objects, click Custom Objects.
- Specify whether you want to add new records to Salesforce, update existing records, or add and update records simultaneously.
- Specify the file that contains your data.
- Choose a character encoding method for your file. Most users can accept the default character encoding.
- Map your data fields to Salesforce data fields.
- Review and start your import.



#### **Import Starships Data Sample**









#### **Export Data**

#### Data Export Wizard

- Browser wizard, accessible through the Setup menu.
- It allows you to export data manually once every 7 days (for weekly export) or 29 days (for monthly export).
- You can also export data automatically at weekly or monthly intervals.
- In Professional Edition and Developer Edition, you can generate backup files only every 29 days, or automatically at monthly intervals only.

#### Data Loader



#### **Export Data**

- 1. From Setup, enter Data Export in the Quick Find box, then select **Data Export** and **Export Now** or **Schedule Export**.
  - •The **Export Now** option prepares your files for export immediately. This option is only available if enough time has passed since your last export.
  - •The **Schedule Export** option allows you to schedule the export process for weekly or monthly intervals.
- 2. Select the desired encoding for your export file.
- 3.If you want images, documents, attachments, and so on included in your data, select the appropriate options.
- 4.Select Replace carriage returns with spaces to have spaces instead of carriage returns or line breaks in your export files. This is useful if you plan to use your export files for importing or other integrations.
- 5. If you're scheduling your export, select the frequency (only available for organizations with monthly exports), start and end dates, and time of day for your scheduled export.
- 6.Under Exported Data, select the types of data to include in your export. We recommend that you select **Include all data** if you're not familiar with the terminology used for some of the types of data.



## **Question time!**

I need to import 150.000 records, what Import tool I need to use?

Data Import Wizard

or

Data Loader



## **Question time!**

I need to import 150.000 records, what Import tool I need to use?

Data Import Wizard



or

Data Loader



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