

Lucidchart Tutorial for Creating Class Diagrams

Note: Variations in images may occur as the Lucidchart website changes.

Follow the instructions in this tutorial to create an account with Lucidchart and begin creating class diagrams.


1. Go to the Lucidchart [UML Class Diagram Tutorial](#). Review this page to become familiar with UML Diagrams.
 - a. If you do not have an account, please continue.
 - b. If you do have an account, please go to step 5.
2. Lucidchart will prompt you to select an option based on your experience level with creating diagrams and your project needs. Select the appropriate option under “I want to learn more about use case diagrams because they are new to me.”

Note: If you already have a Lucidchart account and try to access the UML Diagram page from here, you will be prompted to switch to a paid account.

1 UML Class Diagram Tutorial





- 2 Why use a UML diagram?
- 3 I want to learn more about use case diagrams because they are new to me.
- 4 I want to create my own use case diagram in Lucidchart.
- 5 I want to create a use case diagram from a Lucidchart template.

- Click on the **Continue with Free** button .


[Contact Sales](#)

Step 1 of 3
Choose your plan

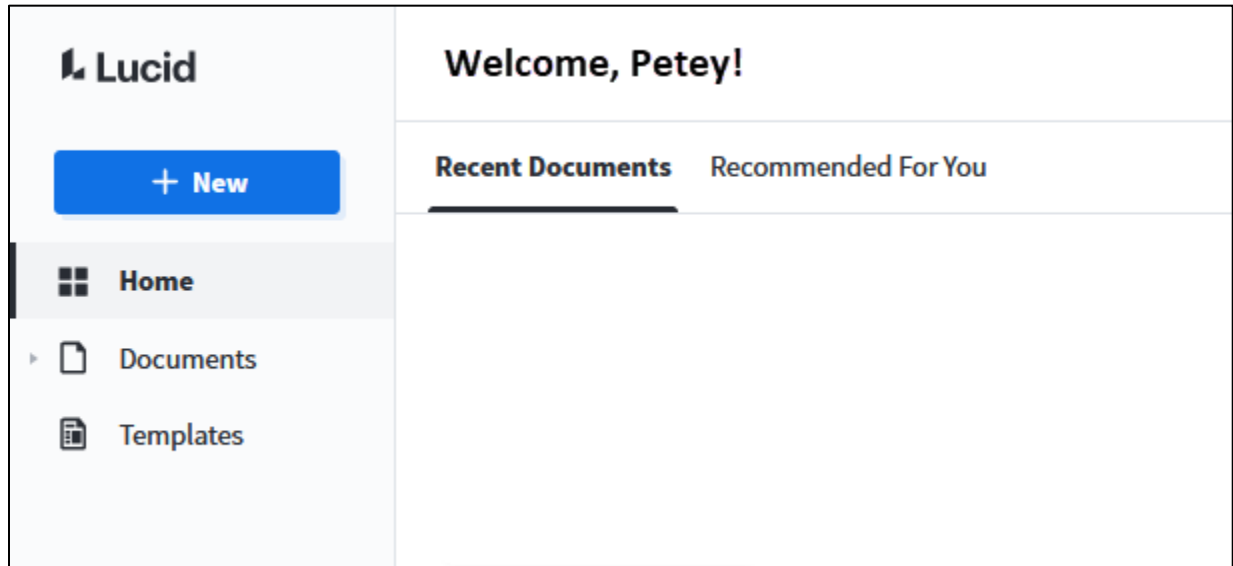
	Free	Individual	Team	Enterprise
Price per month	\$0	Starting at \$7.95	Starting at \$9.00 per user 3 user minimum	Contact us for a quote!
Editable documents	3	Unlimited	Unlimited	Unlimited
Professional templates	100	1000+	1000+	1000+
Collaboration	Basic	Basic	Advanced	Advanced
Integrations	Basic	Basic	Advanced	Advanced
Security	✓	✓	✓	✓
Easy admin controls			Basic	Advanced
Advanced data and automation				✓
SSO				✓

99% of the Fortune 500 choose Lucidchart


 Microsoft


Continue with Free

- Enter your **full name**, your **SNHU email**, and a **password**. Then, click **Create Account**.

5. This will bring you to the homepage of your account.
 - a. If you already have an account you can access your homepage by going to <https://lucid.app/users/login#/login> and signing in.



6. Select **Templates** on the left side of the page to access the template list.
7. There are two methods to find the template you need for this assignment.

- a. Using the **Search templates...** bar, type in UML and click the magnifying glass. Scroll down until you see the UML Class template.

The screenshot shows the Lucidchart web interface. On the left is a sidebar with the Lucid logo, a '+ New' button, and navigation links for Home, Documents, and Templates. The main area is titled 'Templates' and includes a note that documents created from templates will be placed in 'My Documents'. Below this, there are tabs for 'Lucidchart' and 'Lucidspark'. A search bar at the top of the main content area contains the text 'UML' and a magnifying glass icon. To the right of the search bar, two template cards are displayed. The first card, titled 'UML class', shows a complex class diagram with multiple classes and their relationships. The second card, titled 'Use case diagram', shows a diagram with actors and use cases. The 'UML class' card is highlighted with a red border.

Lucid

+ New

Home

Documents

Templates

Templates

Documents created from templates will be placed in: [My Documents](#)

Lucidchart Lucidspark

UML

Recommended for you

- Standard
 - Work remotely
 - Build flowcharts
 - Plan and track projects
 - Visualize technical systems
 - Brainstorm ideas
 - Organize people
 - Design UI and layouts
 - Increase sales efficiency
 - Develop business strategy
 - Education
- Personal

UML class

Use case diagram

- b. Using the **drop down menu** follow the path: **Standard** > **Visualize technical systems** > **System diagrams**. Then select the UML Class template.

The screenshot shows the Lucidchart web application interface. On the left, a sidebar contains a search bar and a 'Recommended for you' section. The 'Standard' category is expanded, showing a list of diagram types. The path 'Standard > Visualize technical systems > System diagrams' is highlighted with red boxes. The 'UML class' template is also highlighted with a red box in the main content area. The main content area displays a grid of diagram templates, including 'Activity diagram', 'Sequence diagram', 'UML class', 'Activity diagram with swi...', 'Banking system use case ...', and 'CI/CD pipeline example'.

Lucidchart Lucidspark

Search templates...

Recommended for you

- ▼ Standard
 - ▶ Work remotely
 - ▶ Build flowcharts
 - ▶ Plan and track projects
 - ▼ Visualize technical systems
 - Cloud architecture diagrams
 - Database diagrams
 - Network diagrams
 - System diagrams
 - Service management diag...
 - ▶ Brainstorm ideas
 - ▶ Organize people
 - ▶ Design UI and layouts
 - ▶ Increase sales efficiency
 - ▶ Develop business strategy
 - ▶ Education
- ▶ Personal

System diagram templates

Architect and design technical systems through UML diagrams, P&ID diagrams, and other visuals.

Activity diagram

Sequence diagram

UML class

Activity diagram with swi...

Banking system use case ...

CI/CD pipeline example

8.

9. Once you have selected your template, click the **Use Template** button.

The diagram is a UML Class Diagram titled "UML Class" with a subtitle "System Template | June 28, 2021". It features several components and relationships:

- Abstract Class**: Located at the top left, containing three operations: `+ operation1(params): returnType`, `+ operation2(params)`, and `+ operation3()`.
- Interface**: Located at the top middle, containing three attributes: `+ attribute1: type = defaultValue`, `+ attribute2: type`, and `+ attribute3: type`.
- Enumeration**: Located at the top right, labeled `«enumeration» AccountState`.
- Interface**: Located in the middle left, labeled `«interface» Interface`, containing three operations: `+ operation1(params): returnType`, `+ operation2(params)`, and `+ operation3()`.
- Class**: Located in the middle right, containing three attributes and three operations: `+ attribute1: type = defaultValue`, `+ attribute2: type`, `+ attribute3: type`, `+ operation1(params): returnType`, `+ operation2(params)`, and `+ operation3()`.
- Library**: Located at the bottom middle, containing one attribute: `+ attribute1: type`.
- Abstract Class**: Located at the bottom right, containing one attribute: `+ attribute1: type`.
- Interface**: Located at the bottom middle-left, labeled `«interface» Search`.
- Interface**: Located at the bottom middle-right, labeled `«interface» Manage`.

 Relationships include:

- A **Write** association between the **Abstract Class** and the **Interface** (top middle).
- A **note** association between the **Interface** (top middle) and the **Enumeration**.
- A **note** association between the **Interface** (top middle) and the **Class**.
- A **note** association between the **Class** and the **Abstract Class** (bottom right).
- A **note** association between the **Class** and the **Interface** (middle left).
- A **note** association between the **Class** and the **Library**.
- A **note** association between the **Class** and the **Abstract Class** (bottom right).
- A **note** association between the **Class** and the **Interface** (bottom middle-left).
- A **note** association between the **Class** and the **Interface** (bottom middle-right).
- A **note** association between the **Class** and the **Interface** (bottom middle-left).
- A **note** association between the **Class** and the **Interface** (bottom middle-right).

UML

UML class

Description:
 This UML class diagram template can help you:

- Model your system's classes, attributes, operations, and relationships between objectives.
- Collaborate with colleagues to map your system's structure.
- Access the UML class shape library.

[↓ Show more](#)

Use Template

10. A description with instructions, as well as a link to watch basic tutorials, will appear on the right side of the screen. Use these instructions to support the creation of your diagram.

Learn about this template

UML class diagrams map out the structure of a particular system by modeling its classes, attributes, operations, and relationships between objects.

To customize this template:

- Click on any shape and type the information you would like to include.
- Add and arrange class shapes as needed.
- Update cardinality.
 - Click on a line and navigate to the properties bar to adjust the endpoints.
 - Click on a line and hover over the gear icon to add multiplicities.
 - Add additional lines by hovering over a shape and clicking the red dot

UML Class Diagram Tutorials

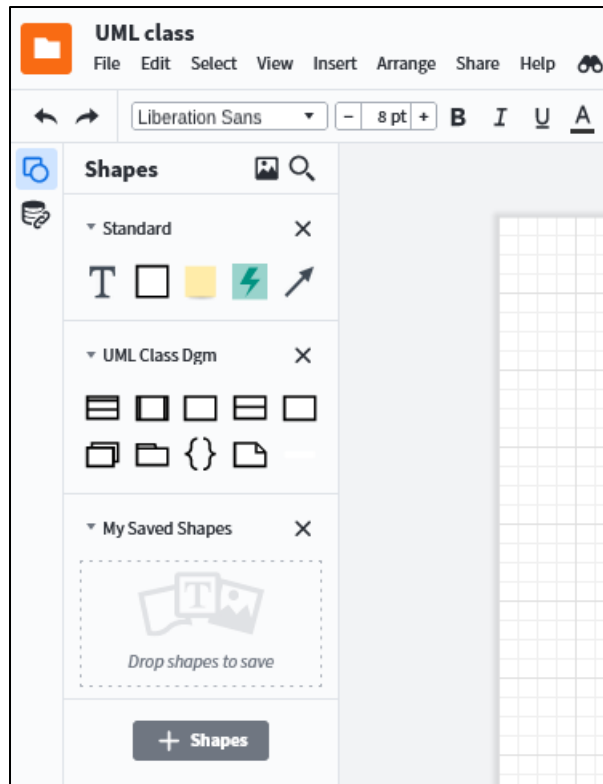
(Hold Shift + ⌘ or Ctrl, then click)

[Watch a UML class diagram tutorial](#)

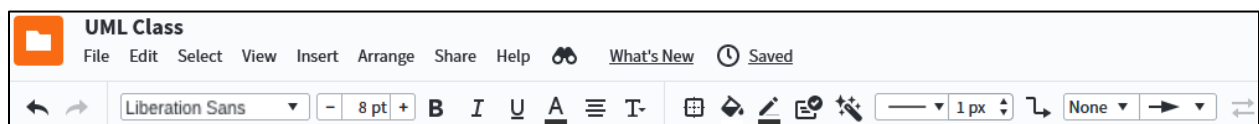
[Read about UML class diagrams](#)

[Watch Lucidchart basic tutorials](#)

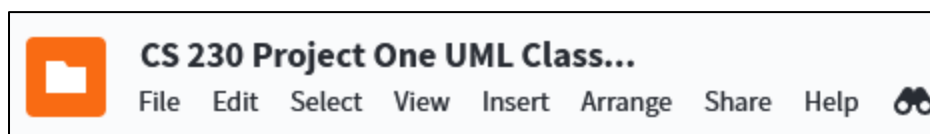
11. There are several features you may use to create a class diagram in the shapes panel. Click and drag the shape you need to place it in the frame. Some shapes may already be loaded in the template.



12. To edit the text in the shape(s), double click and type the appropriate text.
13. You may also add text and lines to complete your diagram. Click and drag from the Shapes panel to add text and lines. You can format the text and lines using the options in the top panel.



14. To name your diagram, click on **Blank UML** and type an appropriate title for the diagram. This will automatically change the title within the frame.



15. To save the diagram, click **File**, then **Save**.
16. To download the diagram, click **File**, then **Download As**. It is recommended that you download your diagram as a PDF, PNG with transparent background, or JPEG.

