

Karel Project #7

DETECTIVE

Add **Objects** and **Containers** to your **maze** to create interesting **programming challenges**.

Select **Creative Suite**, open **Programming**, and launch a new **Karel** project. Click on **File** and save the worksheet in the folder **course-karel-projects** under the new name, **detective**.

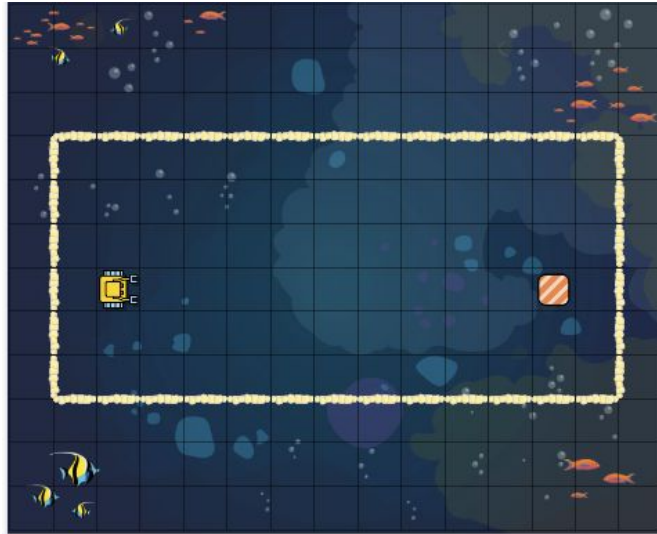
Click on  **Designer** and select  to remove the example maze.

Goal: Create a Game with Objects and Containers

To use **Objects** and **Containers**, you will:

1. Create a maze from a **template**.
2. Add **Objects** and **Containers**.
3. Add relevant **Goals** to your maze.
4. Test your **maze**.

Step 1: Create a Maze From a **Template**



Have you built the **template** from Project #4? This Project will start with the same **template**. You can **save time** by starting your projects with **simple templates**.

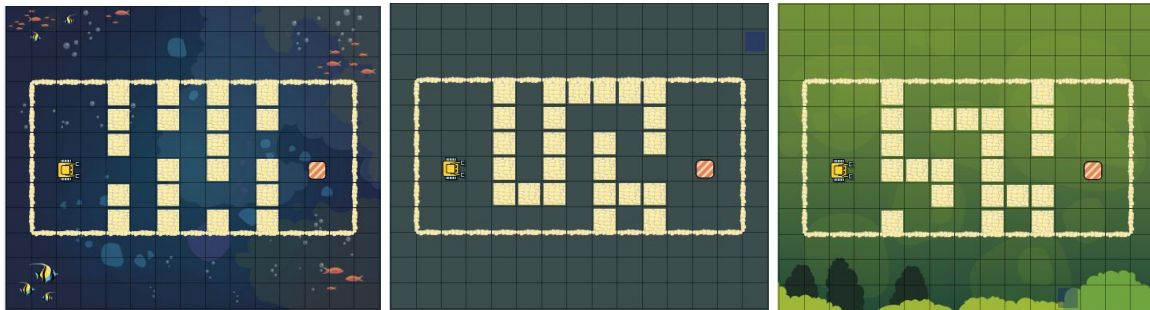
In Project #4, the **template** was named **4-columns**.



Do you have:

- **FOUR** columns of **Walls**?
- **Karel** on the **left**?
- **Home Square** on the **right**?

You might have guessed that next step. You need to clear a path for **Karel** that ends at the **Home Square**.



Step 2: Add **Objects** and **Containers**

Use the **Designer** to add **Objects** and **Containers** to your maze.



Step 3: Add Relevant **Goals** To Your Maze

To finish, you need to add a **Goal** that works well with **Objects** and **Containers**.

Select **Fill all containers**. This will require players to **put Objects** into the **Containers** in your maze.

Next, set the Mode to **Programming**. This will require players of your maze to use the **Karel Programming Language** to solve your maze.

Finally, set a **number of maximum lines** for your maze in order to encourage players to use **conditions**. This will make more sense when you **test your maze**.

ints Links **Goals** Variables

Mode:
 Manual Programming

Fill all containers

Finish
 at home
 where started
 at position x: y:

Step 4: Test Your Maze

Test your maze by selecting [Play](#) at the top of the [Designer](#). For an added challenge, try making a [different maze](#) and compare it with your first maze. [Compare different designs](#) to become a better designer.



Project Checklist

Your Project will be finished when:

1. Your maze has [Objects and Containers](#).
2. Your maze has relevant [Goals](#).
3. Your maze is solvable.