

# CamilleX Documentation

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None

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*None*

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# 1. CamilleX User Manual

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**CamilleX** new constructs (called `XMachines` and `XContexts`) for `Event-B` modelling. The new constructs are text files which are automatically translated into the corresponding `Rodin`'s `Event-B` constructs (i.e., `Machines` and `Contexts`) accordingly. Facility for translating to and from `Rodin`'s components to `CamilleX` components can be invoked manually. `CamilleX` is inspired by `Camille` text editor for `Rodin` and is based on `XText` technology, hence the name `CamilleX`.

- *Getting Started:*
- *Installation:* Information for installing the *CamilleX* feature.
- *Basic tutorial:* This tutorial provides a step-by-step walk-through working with `CamilleX` constructs.

## 2. Getting Started

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### 2.1 Installation

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[CamilleX](#) is available from the main Rodin update site (under [CamilleX](#) category). There are two versions of the feature, the standard version for users and the SDK version for software developers which include source code.

### 2.2 Configuration

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Windows users must change the workspace text file encoding to *UTF-8*. This can be updated under the [Rodin Preferences](#) [General/Workspace](#) then in the [Text file encoding](#) section, select Other: [UTF-8](#).

### 2.3 IMPORTANT

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Currently, *CamilleX* not only supports *standard* Event-B machines and contexts, but also supports *Machine Inclusion* (for composition), and *Record* extension to the Event-B modelling language.

Since the *XContexts* and *XMachines* are compiled to the Rodin files, the corresponding Rodin contexts and machines will be **OVER-WRITTEN**. Any changes in the Rodin files will not be lost.

**DO NOT USE** the *CamilleX* if you use modelling plug-ins that use the Rodin files as source such as *UML-B* state-machines and class-diagrams, as the additional modelling elements will be over-written.

## 2.4 Basic Tutorial

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### 2.4.1 Task 1. Create an Event-B Project

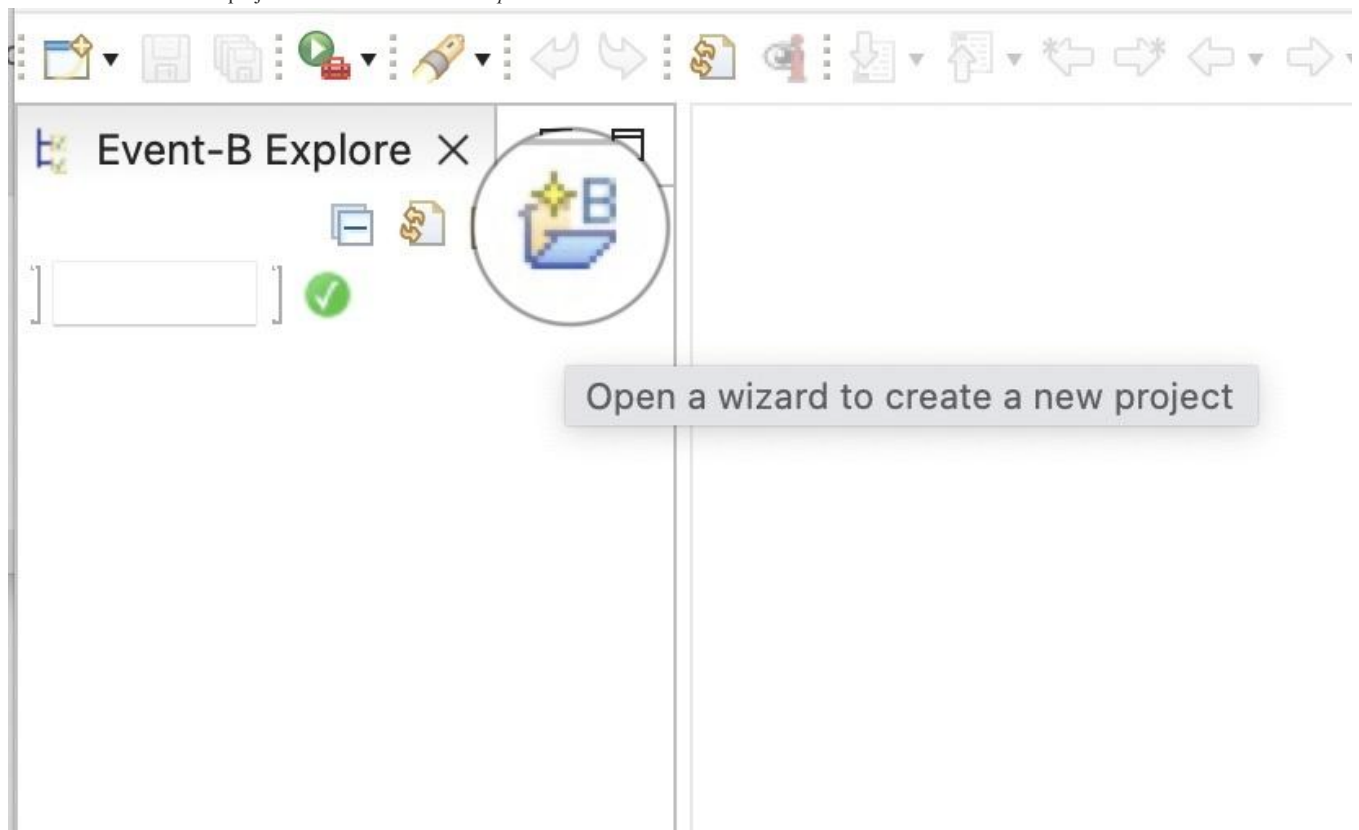
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#### Introduction

The purpose of this task is to create an Event-B project for the CamilleX constructs.

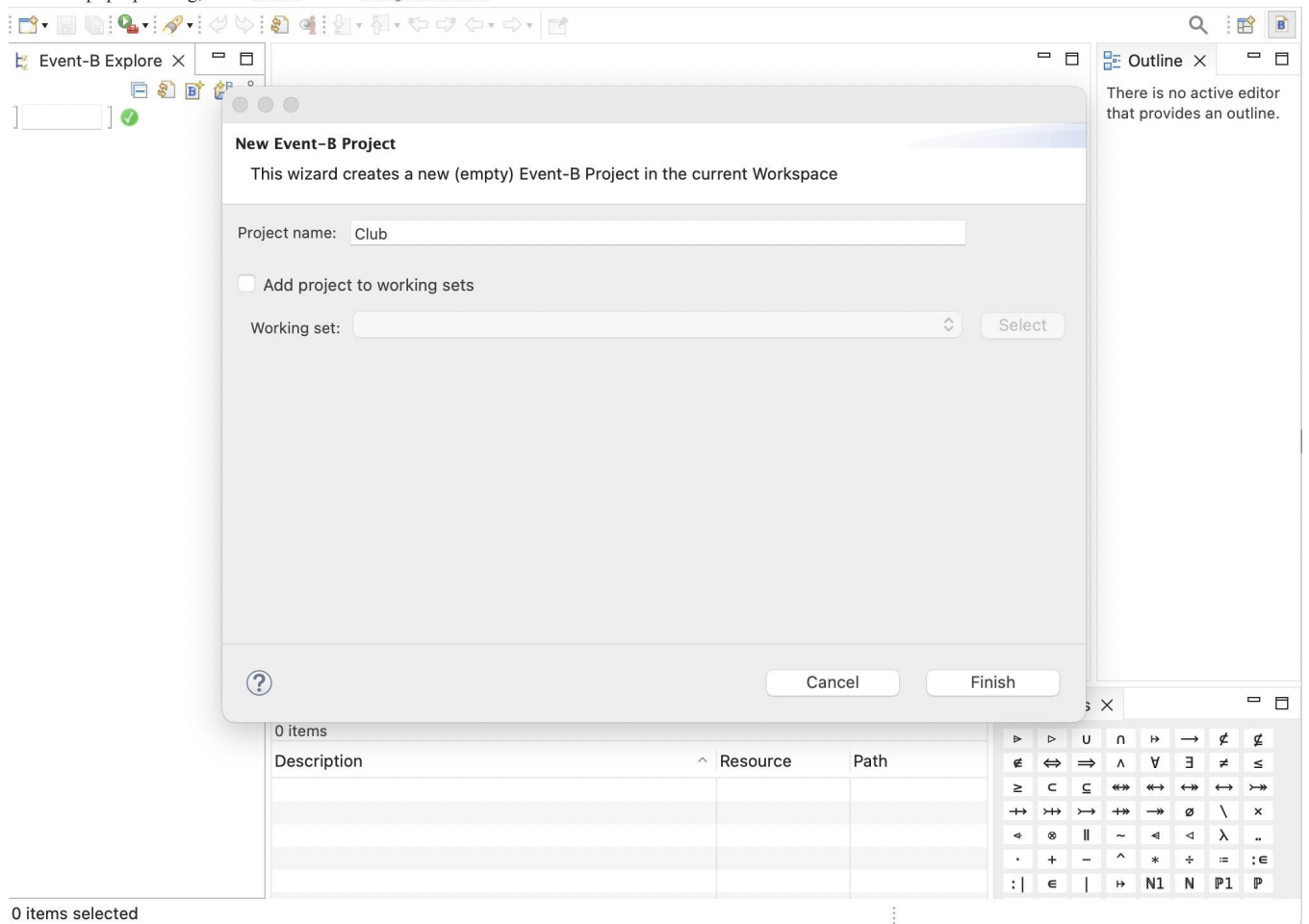
#### Step 1. Create a New Event-B Project Named `Club`

- Click on the new Event-B project button on the *Event-B Explorer*.



(The same wizard can be invoke through the menu `File -> New -> Event-B Project`.)

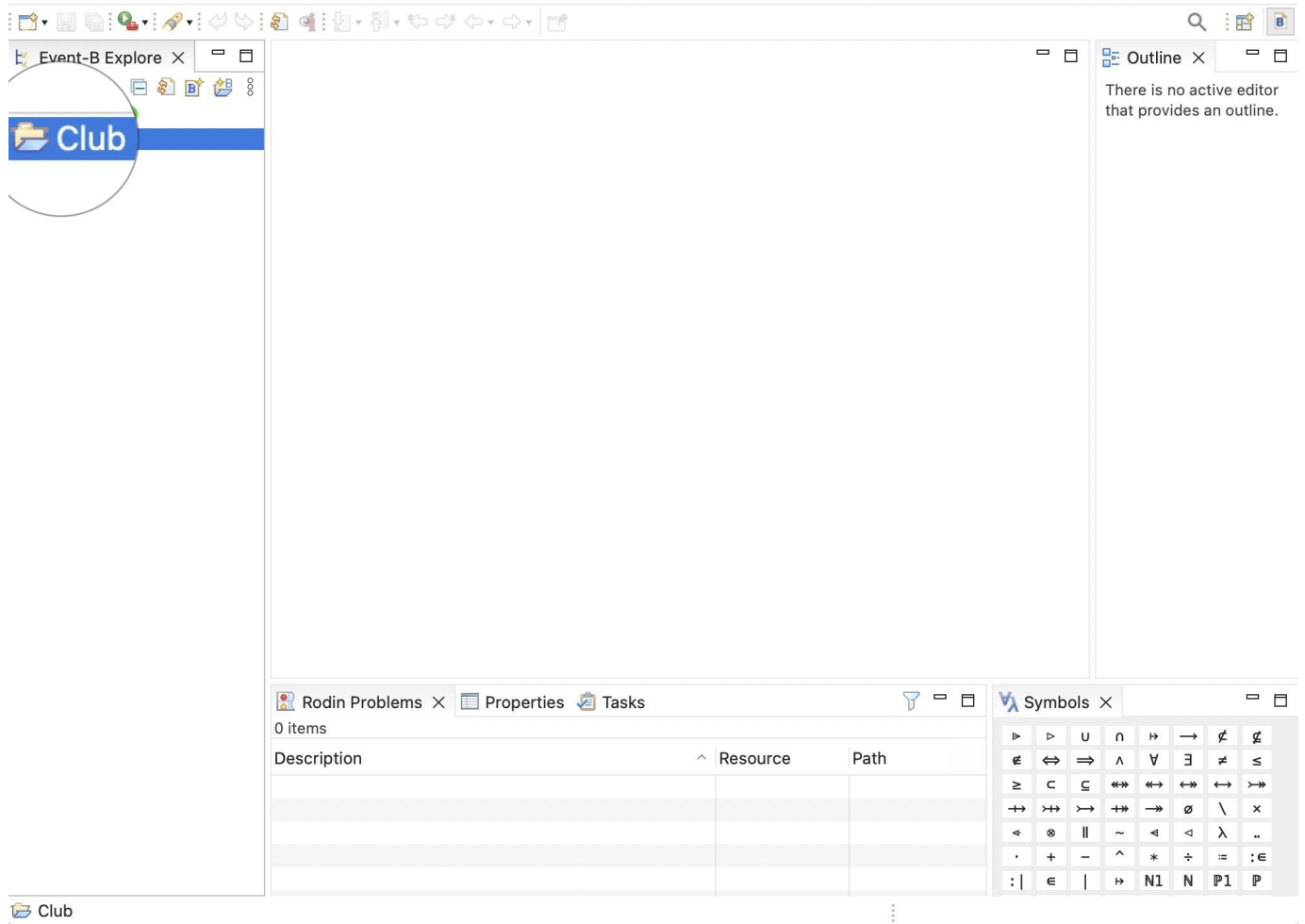
- From the pop-up dialog, enter `Club` as the `Project name`



- Click `Finish` to confirm the creation of the project. Finish Button

## Conclusion

By now, the project `Club` should be visible in the *Event-B Explorer*.



## 2.4.2 Task 2. Create an XContext

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### Introduction

The purpose of this task is to create a simple XContext within the newly created project.

### Step 1. Create a New XContext Named `coursesCtx.bucx`

- Use the menu to create a new file `File -> New -> File`

Create a new XContext named `coursesCtx.bucx` using the `New File wizard` (see the following figure). **Important:** A pop-up dialog will be displayed asking to convert the `Club` project to *XText* project, please answer **Yes**