# Angular Best Friends

## Module 4 Demo 1 – Subjects in RxJS

## Goals

The goal of this demo is to understand better how different types of subjects are designed to work in RxJS.

## Steps

1. Open the folder “module4demo1” in VsCode
2. From the terminal run **npm install** if running for the first time.
3. Run the app with **ng serve –open**
4. Go to the “Subjects” menu item.
5. Explain what it is supposed to do. We have some subscriptions to different subject types that are triggered with 3 seconds delay. So first the subscription to the Subject observable will kick in, then BehaviorSubject, then ReplaySubject and then AsyncSubject
6. Click the start button and explain what’s happening on the screen and how each subject gets its data differently.
7. Now let’s switch to the code behind and go back to VS Code.
8. We’ll find a subject service in the “core” folder, under “services”. So open the “subject.service.ts” file.
9. Show where the subjects are created and don’t forget to show the RxJS specific imports.
10. Underline that the subjects are private but the observables are public
11. Underline that the “$” character at the end of subject names is a naming convention.
12. Explain that when we click the “start” button the **start()** function is actually called.
13. This first initializes the observables. Show and explain the **initSubjects()** function.
14. Explain what happens next in the **start()** method
15. Now let’s see how we subscribe to these observable from the component. To do this, go to the “subject.component.ts” file and explain what happens there from top to bottom.