

CH5 From Scratch a little more advanced example - With contracts

This is a project taking the absolute simplest path to making a functional touchpanel in HTML5. This uses ONLY the Crestron CRComLib and standard CSS,HTML5,JavaScript. It also will work for both joins and contracts. This example uses contracts. The contract editor files are in the "contracts" folder in the project. This one shows how you can use the crcomlib and the built in crestron button handlers to make an array of buttons that also have dynamic labels.

Installation

Everything done with the first one is enough and does not have to be repeated. If you went directly to this project, look at the readme on the first project in the series.

Setting up the project

Open the folder containing the project in VS Code by selecting File->Open Folder and navigate to the html folder in the project you unzipped.

Open a terminal window in VS Code after opening the folder.

If this is the first time using VS Code and if it says Windows Powershell at the top of the terminal window run the command

```
Set-ExecutionPolicy RemoteSigned
```

this will only have to be done once. you never need to do it again. running it again will do no damage.

Now run the command to get the current crcomlib and its assorted packages it depends on by issuing the following command in the same terminal window in your project.

```
npm install @crestron/ch5-crcomlib
```

Build project archive for loading to the touch panel - Important change

If you have built before delete the ./dist directory and its contents before running this command again.

We need to tell it to include the contract so that crcomlib can read it. If you forget to include this then the contracts will not work at all. It is important to make sure you include the cse2j file.

It is all one line and not two lines as shown below. a space after the -c and the .. is needed

```
ch5-cli archive -p CH5-From-Scratch-Contracts -d .\ -o dist -c  
..\Contract\output\Example3\interface\mapping\Example3.cse2j
```

This will create the .ch5z file that needs to be loaded to the touch panel it will be in a new dist folder that appears in the current working folder.

Programming

From this point on we are discarding Simpl and going fully C#. Contracts in Simpl are straight foreword and do not need more examples as they just come in as contract item objects. In C# this is not the case, things are undocumented and can be challenging.

The code at this point and foreword will leverage a message broker system. It is an extremely simple message broker to show you that you do not need a highly complex system to get the job done. The Touch panel has been broken out to it's own class, and the interlock's code is it's own class. AS the HTML evolves so will the c# code that is included with the examples.