U5LHS71SM: I was doing that, but I'm trying to get rid of that layer. Not for a special reason but I think without that js layer it would be more elegant actually.

U0PBSF05S: True, it would be, but Elm does not support SocketIO directly. I opted for the benefits of SocketIO over straight websockets, but it will depend how you see things in your project. I am not finding that extra layer much of an issue to manage though since I am keeping it thin.

U5P4FLYLE: Hi, I try to manage complexity as my Elm project gets bigger and I split up central Msg. So I have: Msg.elm import View. Table as Table type Msg = Mdl (Material.Msg Msg) | TableMsg Table.Msg Also in update function I have something like: TableMsg a -> lift .tableModel (\m x -> { m | tableModel = x }) TableMsg Table.update a model In view function: div [class "content"] [table model record] In `Table.elm` table: Model -> Html.Html Msg table model = Table.table [Elevation.e8 , css "width" "386px" , Elevation.transition 300 [Table.thead [] [Table.thead [] [<http://Table.tr|Table.tr> [] (List.map addTableHead model.dims) , Table.tbody [] (List.map (\items -\> < http://Table.tr|Table.tr> [] (List.map addBodyHead items)) model.data `Problem`: After this trick I get error: "The 3rd branch has this type: Html Msg But the 4th is: Html View.Table.Msg`` Question: How to make Msg out of View. Table. Msg?] U3SJEDR96: `|> Html.map TableMsg` U3SJEDR96: in your view, that is U5P4FLYLE: <@U3SJEDR96> thanks!!! U5P4FLYLE: Hi, I want to check against specific string value in a function: " addTableHeadSortable xdim input = case input of xdim -> doSomething _ -> doSomethingElse ```

So if input equals xdim I want one branch to return, if not otherwise. It is obvious that input as a String can get also different values than `xdim`. But I got compilation error:

```
"The following pattern is redundant. Remove it.
79
               _ ->
Any value with this shape will be handled by a previous pattern."
Am I missing something?
U3SJEDR96: yeah, when you do `case foo of bar -> ` you're essentially asking "can I describe this variable with this
pattern", not "with this value". You can use a literal in a pattern, but not a variable, then it will just go "sure, I can put
your `foo` in a variable named `bar`", and inside that branch, `xdim` is now your `input` :slightly_smiling_face:
U5P4FLYLE; ok, so how to enforce xdim to be interpreted like pattern? Just use; if else construct?
U3SJEDR96: <@U5P4FLYLE> exactly: slightly smiling face:
U5P4FLYLE: ok, so my last question in this problem would be how to `return` what is in {} in something like that:```
if (input == xdim) {
             <a href="http://Table.th/Table.th">http://Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/">http://Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/">http://Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/">http://Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/">http://Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.th/Table.
                   model.order
                  |> Maybe.map Table.sorted
                 |> Maybe.withDefault nop
                  , Options.onClick Reorder
                 ] [ text input ]
      } else {
             <a href="http://Table.th|Table.th">+ [] [ text input ]</a>
U0JL9RPC4: hmm just remove your braces? I don't really get the issue here
U5P4FLYLE: sure in Elm we have 'if *then* else'. thanx
U3SJEDR96: yeah, 'if condition then *expression* else *expression'
U3SJEDR96: remove the braces, add a 'then', and you're all set
U37HUSJ4R: can a port send multiple values back to JS land? `port fooBar: String-> String-> Cmd msg`
U3SJEDR96: <@U37HUSJ4R> a single value, but you can use a tuple, record or list to get multiple things in a single
value. `port fooBar: (String, String) -> Cmd msg` for example, which will translate to an array of 2 strings in JS
U3SJEDR96: or `port fooBar: { foo: String, bar: String } -> Cmd msg` which will be an object with 2 keys, foo and
bar, in JS
U3SJEDR96: <a href="https://quide.elm-lang.org/interop/javascript.html#customs-and-border-protection">https://quide.elm-lang.org/interop/javascript.html#customs-and-border-protection</a> for the complete list
of "autoconverted" values
U37HUSJ4R: brilliant, thanks
U37HUSJ4R: that example is just what I was after
U0EUHKVGB: You can also use a decoder and encoder to send more complicated objects in and out of Elm
U0EUHKVGB: Requires a bit more legwork, but it is a good option to turn to if you already have them
:slightly smiling face:
U5P4FLYLE: I have: ```data=[[163229, "Mon", "a"], [248083, "Wed", "b"]]
dims=["dim1", "dim2", "dim3"]``
I want to make array of records:
   `[{"dim1":163229."dim2":"Mon"."dim3":"a"}.
{"dim1":248083,"dim2":"Wed","dim3":"b"}]`
I bet I have to do something like below (with fix):
```List.map (\el -> List.map2 (\val dim -> dim=val) el dims ) data```
How to enforce in outer lambda to instantiate record?
U0EUHKVGB: In Elm, we don't really have instances of records.
U0EUHKVGB: This is how you create a record:
makeDimRecord dim1 dim2 dim3 =
 \{ \dim 1 = \dim 1 \}
 , dim2 = dim2
 , dim3 = dim3
}
```

U0EUHKVGB : Elm will automatically make this function for you when you make a type alias U0EUHKVGB : ```type alias Dims =

```
{ dim1 : Int , dim2 : String , dim3 : String , dim3 : String }
-- Dims is the same as the makeDimRecord shown above

U0EUHKVGB : Next, you probably don't want lists. You probably want a list of tuples.
U0EUHKVGB : `data= [(163229,"Mon","a"),(248083,"Wed","b")]`
U0EUHKVGB : If you don't know the name or the number of fields you'll have at compile time, you are better off using a
`Dict`, which is otherwise known as a hash, a table, or a map
U0EUHKVGB : ```Dict.fromList [("dim1", dim1), ("dim2", dim2), ("dim3", dim3)]
...
```

U0EUHKVGB: You can't have a record with a changing number of fields. You must know all the fields at compile time. With a dict, you can plop whatever you want in there.