

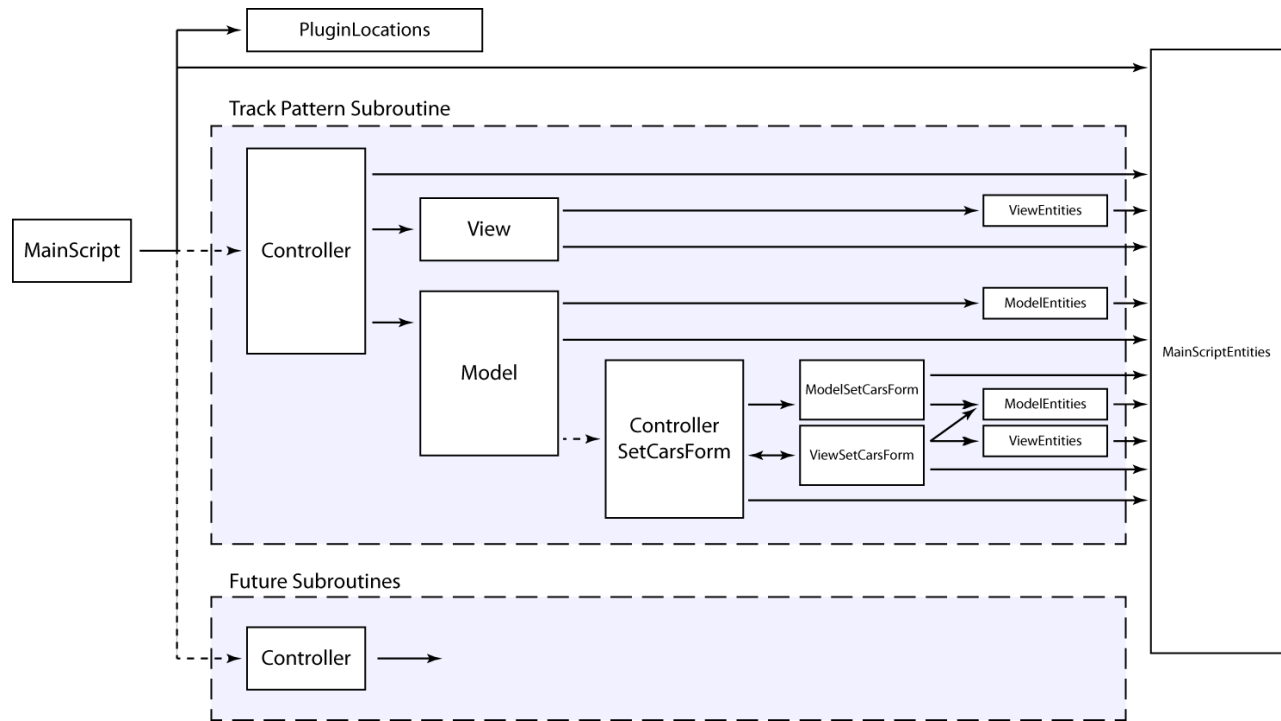
Pattern Scripts plugin for JMRI

Help File

Videos:

Organization:

The following chart shows the code structure of this plugin.



Key – PatternConfig.JSON:

Each JMRI profile gets its own configuration file, found in the operations folder.

While all elements in this file are editable, those shown in green are the ones that fine tune the plugin reports for a particular look.

If a mistake is made editing the PatternConfig.json file, the plugin will replace it with the default file, and the user will have to start over.

Description of the elements:

***Common for all subroutines

"CP": { Control Panel, Settings common for the control panel and all subroutines

"PH": 140, Panel Height

"PW": 2000, Panel Width

"SI": { Subroutine Includes. This dictionary lists and chooses which subroutines will be part of the plugin

"FutureSubroutines": false,

"TrackPattern": true True means the sub will be included

}

},

"LI": { Logging Index, maps JMRI log levels to Python logging levels

"1": "- WARNING -",

"3": "- INFO -",

"5": "- DEBUG -",

"7": "- DEBUG -"

},

},

"LM": { Location Matrix - dictionary of locations where the control panel can be displayed

"LO": { Location Options - values for each possible display location

"0": [

"Pattern Scripts plugin is turned off",

null

],

```

"1": [
  "Display the Control Panel on the PanelPro frame",
  "panelPro"
],
"2": [
  "Control Panel added to its own window",
  "uniqueWindow"
]
},
"PL": "2" Plugin Location, enter 0 to turn off, 1 or 2 to change the display location
},

```

***Elements for the Track Pattern sub

```

"TP" : { Track Pattern, this group has all the settings for the TP subroutine
  "AL" : [ All Locations, all the locations for the current profile, the program sets this
  ],
  "PL" : "", Pattern Location, the currently selected location, set by user
  "PT" : { Pattern Tracks, list of tracks for the selected location and their selected flag, set by
  user, written by program
  },
  "PA" : false, Yard Tracks only flag, set by user
  "PI" : false, Ignore Track Length flag, set by user
  "AS" : true, Apply Schedule. Applies a spurs schedule when a car is moved from a spur.
  "PW" : 260, Pattern Width
  "PH" : 16, Pattern Height, height of all javax boxes used in all windows
  "RM": 8, Row Multiplier, "Translator" value to convert character width to pixels
  "ST" : "Set to:", Part of Set Cars to Track header
  "DS" : "*No Waybill", Standin message if no DeStination
  "DT" : "*No Waybill", Standin message if no Destination Track
  "FD" : "*Via Staging", Standin message if no Final Destination
  "FT" : "*Via Staging", Standin message if no Final destination Track
  "SL": [ Sort List, sort column and order for all reports, this can be hand edited by the user,

```

selected from RW fields. Sort order is top down

```
"Load Type",  
"FD&Track"  
],
```

"RW": { Report Width, This is a list of JMRI fields and their respective report character lengths

```
"Input": 6,  
"Road" : 5,  
"Number" : 7,  
"Type" : 5,  
"Length" : 7,  
"Weight" : 7,  
"Load" : 5,  
"Load Type" : 10,  
"Hazardous" : 10,  
"Color" : 6,  
"Kernel" : 7,  
"Kernel Size" : 12,  
"Owner" : 6,  
"Track" : 6,  
"Location" : 9,  
"Destination" : 12,  
"Dest&Track" : 30,  
"Final Dest" : 11,  
"FD&Track" : 20,  
"Comment" : 15,  
"SetOut Msg" : 12,  
"PickUp Msg" : 12,  
"RWE" : 10  
}
```

```
}
```

```
}
```

Key – trackPatternDict object:

Object generated by the plugin, it's not directly available to the user. This is the data for all print reports:

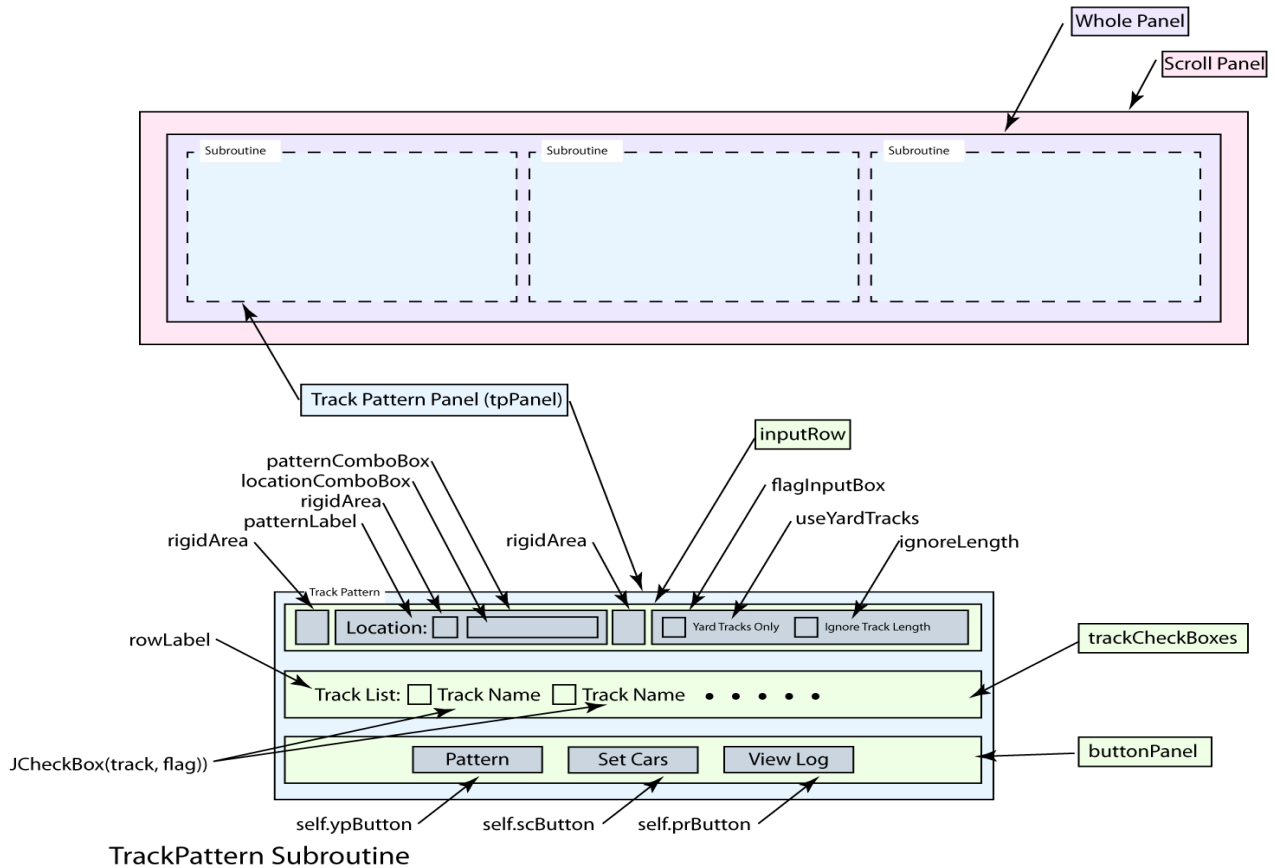
```
'RT': u'Report Type',
'YL': u'Yard Location',
'RN': u'Railroad Name',
'VT': u'Valid Time'}
'ZZ':
[{'TL': Track length,
'TN': u'Track Name',
'TR': Track Roster
  [{'u'Destination': 'Destination',
    u'Comment':u'Comment',
    u'RWE': u'Return When Empty',
    u'Load': u'Load',
    u'Owner': u'Owner',
    u'FD&Track': u'Final Destination and Track',
    u'PickUp Msg': u'PickUp Message',
    u'Road': u'Road Name',
    u'Color': u'Color',
    u'Load Type': u'Load Type',
    u'Weight': u'Weight',
    u'Dest&Track': 'Destination and Track',
    u'SetOut Msg': u'SetOut Message',
    u'Type': u'Car Type',
    u'Number': u'Car Number',
    u'Length': u'Length',
    u'Kernel Size': '1',
    u'Kernel': u'Kernel Name',
    u'Hazardous': False,
    u'Track': u'Current Track',
```

```
u'Final Dest': u'Final Destination',  
u'Set to': '[ ] ', Special for this plugin, to pre-mark switch list  
u'Location': u'Location Name'}}  
}},
```

Pattern Scripts window:

Layout of methods and variables for:

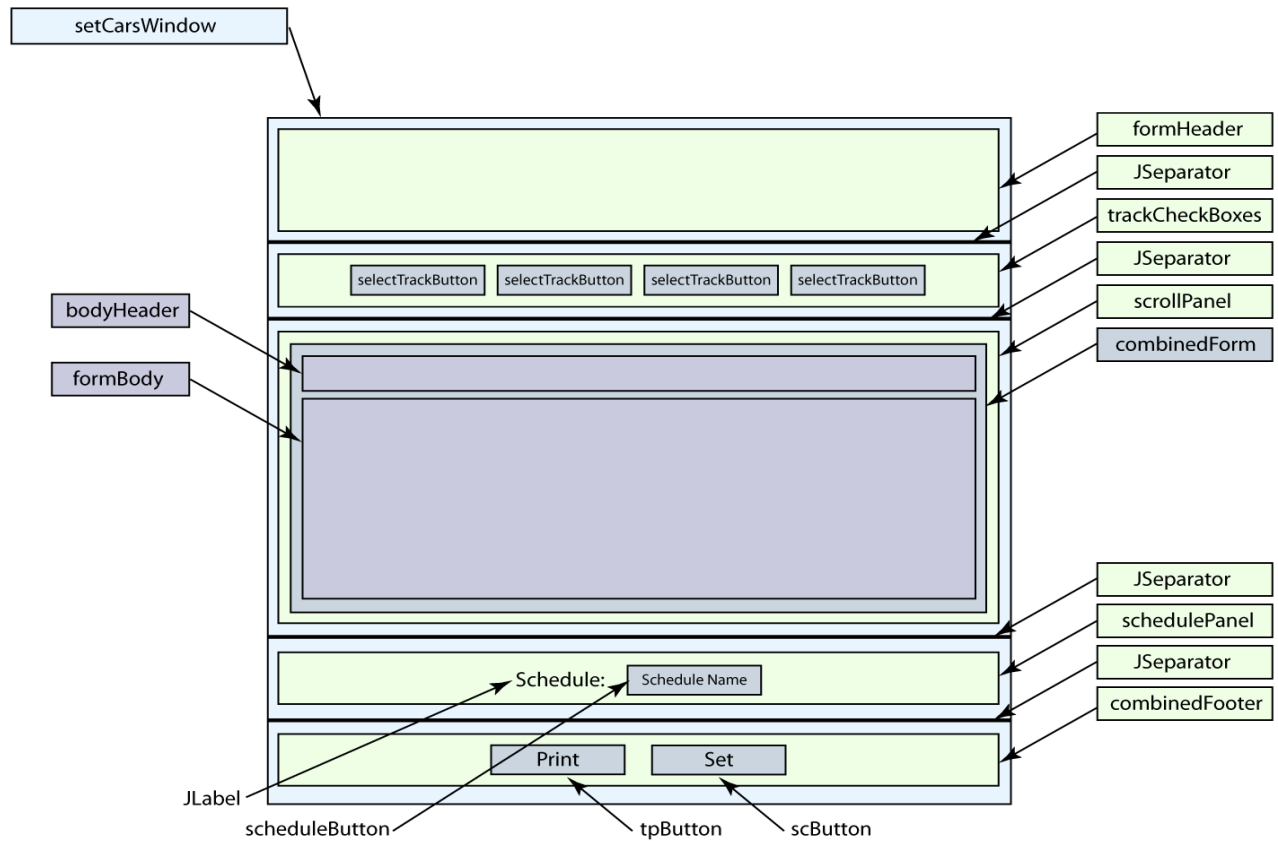
`TrackPattern.ViewEntities.TrackPatternPanel().makePatternControls()`



Pattern Report for Track window:

Layout of methods and variables for:

TrackPattern.ViewSetCarsForm.patternReportForTrackWindow(self.trackPattern,offSet)



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