

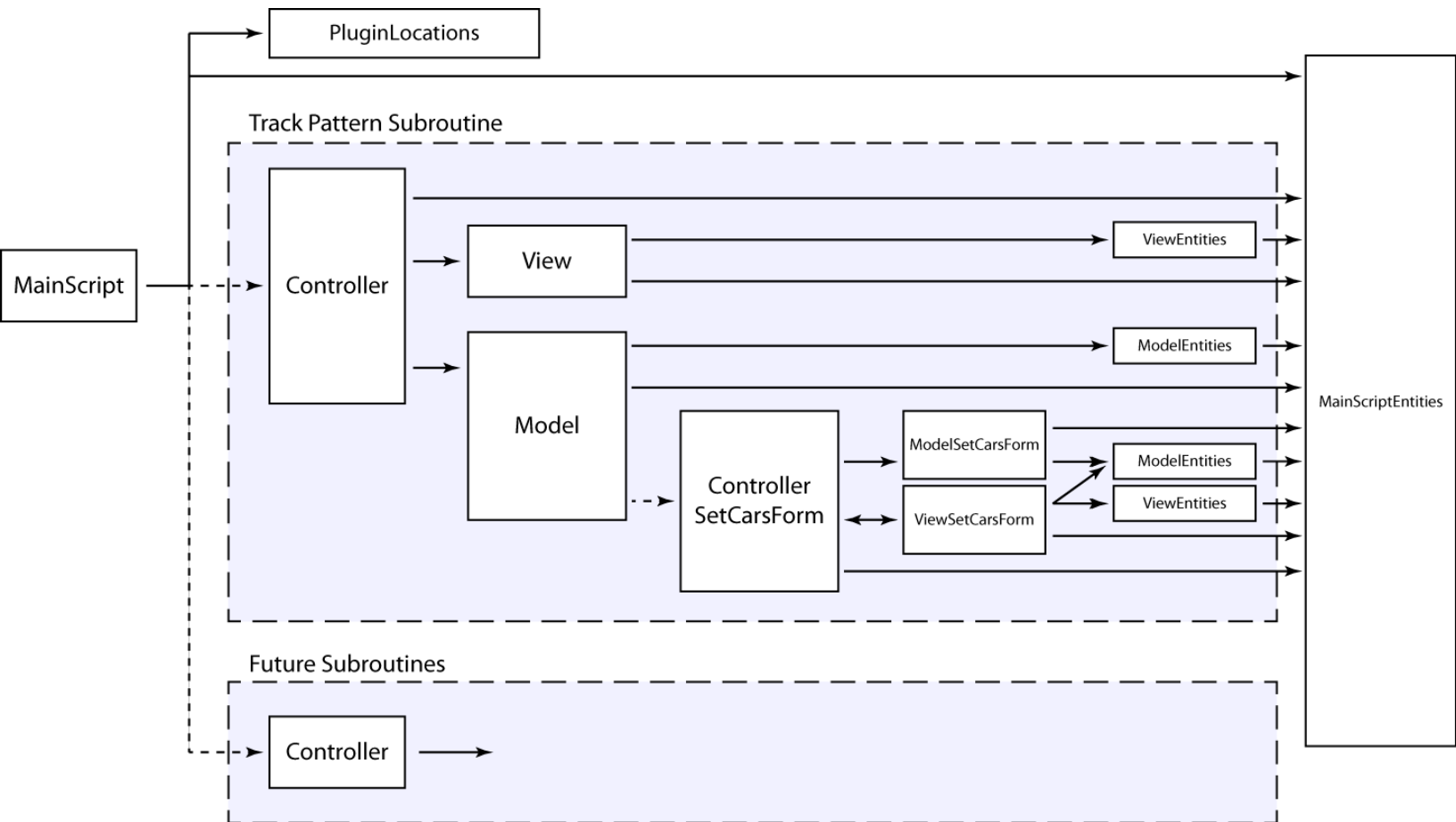
Pattern Scripts plugin for JMRI

Help File

Videos:

Organization:

The following chart shows the organizing structure of this plugin.



Key – PatternConfig.JSON:

Discription 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"
            ],
            "3": [
                "Control Panel added to the Trains window",
                "trainsTable"
            ]
        },
        "PL": "2" Plugin Location, enter 0 to turn off, 1, 2, or 3 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.
    (depricated)
    "PW" : 260, Pattern Width (depricated)
    "PH" : 16, Pattern Height, height of all javax boxes used in all windows
    "ST" : "Set to:", Part of Set Cars to Track header
    "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"
    ],
    "RM": 8, Row Multiplier, "Translator" value to convert character width to pixels
    "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 the data for the 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 for:

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

Pattern Report for Track window:

Layout of methods for:

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