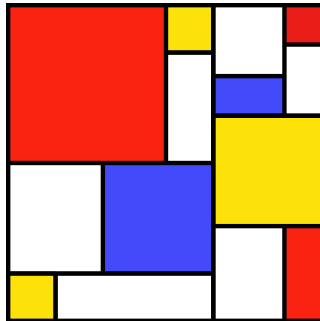


SLiM

Workshop Series



#14: Live Plotting in R

Live Plotting in R

- SLiMgui provides some built-in plots
- Eidos has no plotting support
- For other plots:
 - R (or Python) can be used
 - call out to them from Eidos with `system()`
 - SLiMgui can display these plots *live*
 - this also works at the command line!

Live Plotting in R

- Make a temporary plot file
- Open the plot in SLiMgui
- Create a temporary plotting script
- Run it in Rscript with `system()`

Live Plotting in R

- Make a temporary plot file:

```
defineConstant("plotPath", writeTempFile("plot_", ".png", ""));
```

- Open the plot in SLiMgui:

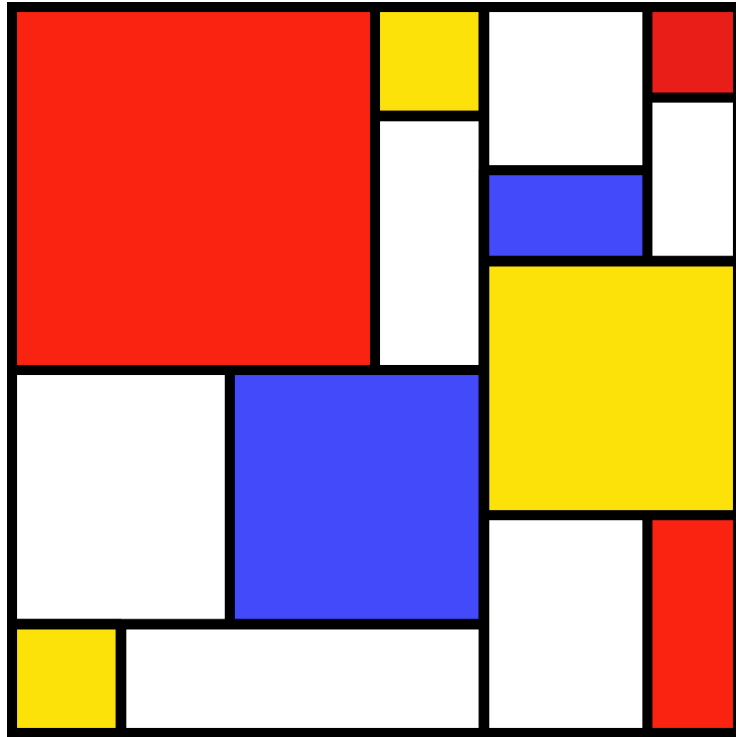
```
if (exists("slimgui"))  
  slimgui.openDocument(plotPath);
```

- Create a temporary plotting script:

```
scriptPath = writeTempFile("plot_", ".R", rstr);
```

- Run it in Rscript with system():

```
system("/usr/local/bin/Rscript", args=scriptPath);
```



SLiM Workshop Exercise #14