

R DoE libraries  
e.g., Rcmdrplugin.DoE

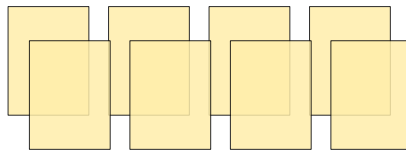
CSV file with  
the list of experiments  
to run

|   | A  | B  | C  | D  |
|---|----|----|----|----|
| 1 | 1  | -1 | -1 | 1  |
| 2 | 1  | -1 | 1  | -1 |
| 3 | -1 | 1  | -1 | 1  |
| 4 | -1 | -1 | 1  | 1  |
| 5 | 1  | 1  | 1  | 1  |
| 6 | 1  | 1  | -1 | -1 |
| 7 | -1 | -1 | -1 | -1 |
| 8 | -1 | 1  | 1  | -1 |

Experiment Engine  
embedding the black box



Data and meta-data  
for each experiments



CSV file with  
the experiment results

|   | A  | B  | C  | D  | Y   |
|---|----|----|----|----|-----|
| 1 | 1  | -1 | -1 | 1  | 3.2 |
| 2 | 1  | -1 | 1  | -1 | 1.4 |
| 3 | -1 | 1  | -1 | 1  | 4.1 |
| 4 | -1 | -1 | 1  | 1  | 1.2 |
| 5 | 1  | 1  | 1  | 1  | 2.3 |
| 6 | 1  | 1  | -1 | -1 | 1.3 |
| 7 | -1 | -1 | -1 | -1 | 2.5 |
| 8 | -1 | 1  | 1  | -1 | 9.4 |

R (lm, aov, ...)

