



Figure 1: The above graph shows the total download counts from 2019-10-04 to 2021-10-02 of DoE packages.

What are the common types of experimental designs?

How do packages interplay with each other?

Which packages are widely utilised?

Figure 1 suggests that the **AlgDesign** followed by **agricolae** are far more downloaded than any other DoE packages. It is worth noting that **agricolae** imports **AlgDesign** thus any download of **agricolae** likely results also in a download of **AlgDesign**.

Software design

Discussion

An experiment involves running a number of steps:

1. Defining the hypothesis or question
2. Formulating methods to test hypothesis or answer question
3. Planning the experimental protocol:
 - Determining experimental resources,
 - specifying the data collection procedure,
 - constructing the experimental design layout, and
 - proposing a model for analysis.
4. Collect data
5. Analyse data, interpret result and conclusion

word	n	word	n
optimal design	9	experimental design	10
experimental design	8	optimal design	10
clinical trial	5	package provide	7
dose finding	5	graphical user	6
block design	4	response surface	6
microarray experiment	4	user interface	6
response surface	4	block design	5
sequential design	4	contour plot	5
		design based	5
		effect model	5
		factorial design	5
		microarray experiment	5
		mixed effect	5
		provide function	5
		sample size	5

Table 1: My tables

Bibliography

G. van Rossum. Python tutorial. Technical Report CS-R9526, Centrum voor Wiskunde en Informatica (CWI), Amsterdam, May 1995. [p1]

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