

mlr3

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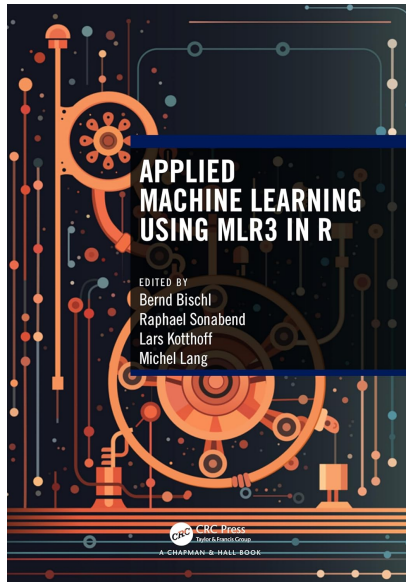
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<https://mlr3book.mlr-org.com/>

```

glrn_rf_tuned = as_learner(ppl("robustify") %>% auto_tuner(
  tnr("grid_search", resolution = 5),
  lrn("classif.ranger", num.trees = to_tune(200, 500)),
  rsmp("holdout")
))

glrn_stack = as_learner(ppl("robustify") %>% ppl("stacking",
  lrns(c("classif.rpart", "classif.kknn")),
  lrn("classif.log_reg")
))

learners = c(glrn_rf_tuned, glrn_stack)
bmr = benchmark(benchmark_grid(tasks, learners, rsmp("cv", folds = 3)))

bmr$aggregate(msr("classif.acc"))

```

	nr	task_id	learner_id	resampling_id	iters	classif.acc
	<int>	<char>	<char>	<char>	<int>	<num>
1:	1	breast_cancer	RF	cv	3	0.9677912
2:	2	breast_cancer	Stack	cv	3	0.9164992
3:	3	sonar	RF	cv	3	0.8267081
4:	4	sonar	Stack	cv	3	0.7162871

Overview



A scientifically designed and easy to learn interface.



More than 100 connected machine learning algorithms.



Light on dependencies.



Convenient parallelization with the future package.



State-of-the-art optimization algorithms.

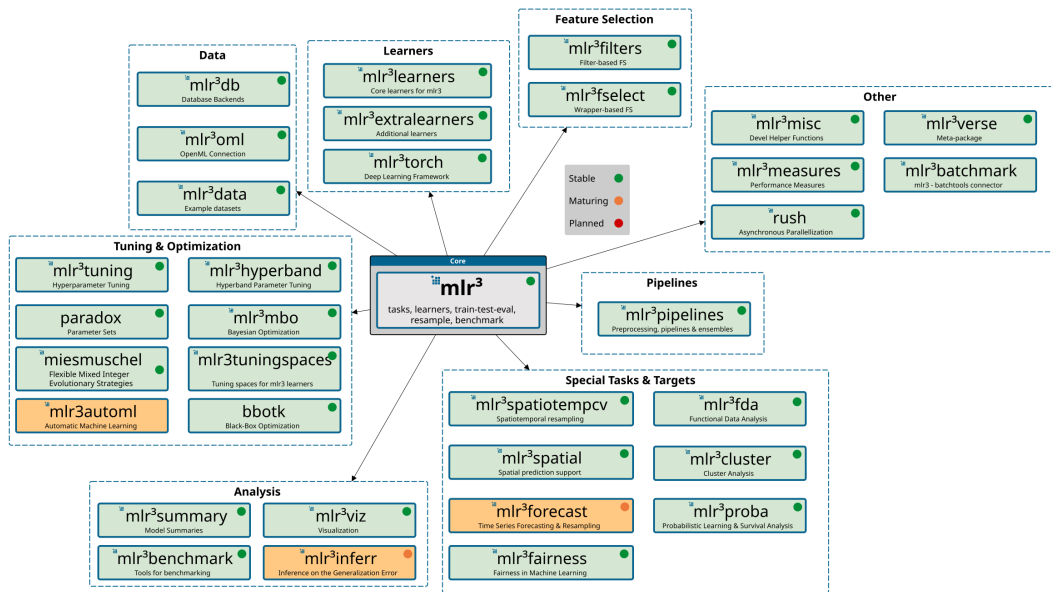


Dataflow programming with pipelines.

Overview

- ▷ first release in 2013 (mlr), mlr3 since 2019
- ▷ R6 object-oriented design
- ▷ syntactic sugar to make common operations easier
- ▷ dozens of contributors from across the globe
- ▷ $\approx 1,000$ stars on github for the main repository
- ▷ modular design with dozens of companion packages
- ▷ extensive unit and integration testing

mlr3 Ecosystem



<https://mlr-org.com/>

<https://mlr3.mlr-org.com/>

<https://mlr3book.mlr-org.com/>