**Description**

Mine frequent itemsets, association rules or association hyperedges using the Apriori algorithm. The Apriori algorithm employs level-wise search for frequent item sets. The implementation of Apriori used includes some improvements (e.g., a prefix tree and item sorting).

**Usage** apriori(data, parameter = NULL, appearance = NULL, control = NULL)

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**Arguments**

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| data | object of class [transactions](http://127.0.0.1:42442/help/library/arules/help/transactions-class) or any data structure which can be coerced into [transactions](http://127.0.0.1:42442/help/library/arules/help/transactions-class) (e.g., a binary matrix or data.frame). |
| parameter | object of class [APparameter](http://127.0.0.1:42442/help/library/arules/help/APparameter-class) or named list. The default behavior is to mine rules with minimum support of 0.1, minimum confidence of 0.8, maximum of 10 items (maxlen), and a maximal time for subset checking of 5 seconds (maxtime). |
| appearance | object of class [APappearance](http://127.0.0.1:42442/help/library/arules/help/APappearance-class) or named list. With this argument item appearance can be restricted (implements rule templates). By default all items can appear unrestricted. |
| control | object of class [APcontrol](http://127.0.0.1:42442/help/library/arules/help/APcontrol-class) or named list. Controls the algorithmic performance of the mining algorithm (item sorting, report progress (verbose), etc.) |