

1-minute training course: How Rete engines work

- **Every rule is defined in terms of some class / type**

- **Customer**, **Transaction**

- If **Customer.id** = **Transaction.cid** and **Customer.status** = "Gold client"

- Then **Transaction.priority** = high

- **At runtime, there may be zero or more instances of these declarations in "working memory"**

- E.g. (example A) 1 **customer** and 4 **transactions**

- (example B) 23 **customers** and 15 **transactions**

- **Rules run conditions (joins and filters) against all combinations of such declarations**

- E.g. (example A) $1 \times 4 = 4$ (**customer**, **transaction**) combinations tested

- (example B) $23 \times 15 = 345$ (**customer**, **transaction**) combinations tested

- **Rule actions are executed for each combination that passes the conditions**