tabulata calculates and aggregates **list-based data**. Its function expressions are versatile and easy to read and use.

The budget example to the right introduces the terminology and showcases the way tabulata lets you manipulate **lists**, **values** and **expressions**. By default calculated values are displayed, the expression generating the value can be edited when the calculated value is selected. In the example, the expressions are printed overlaid with orange borders.

A **block** (1) is a collection of **lists** (2) and **singulars** (3). It is displayed on the **home screen** in condensed form, as shown here. Selecting the block opens it for editing.

A singular associates an expression (5) with a name (4). When the singular is **starred** (6), it appears in the condensed block on the home screen.

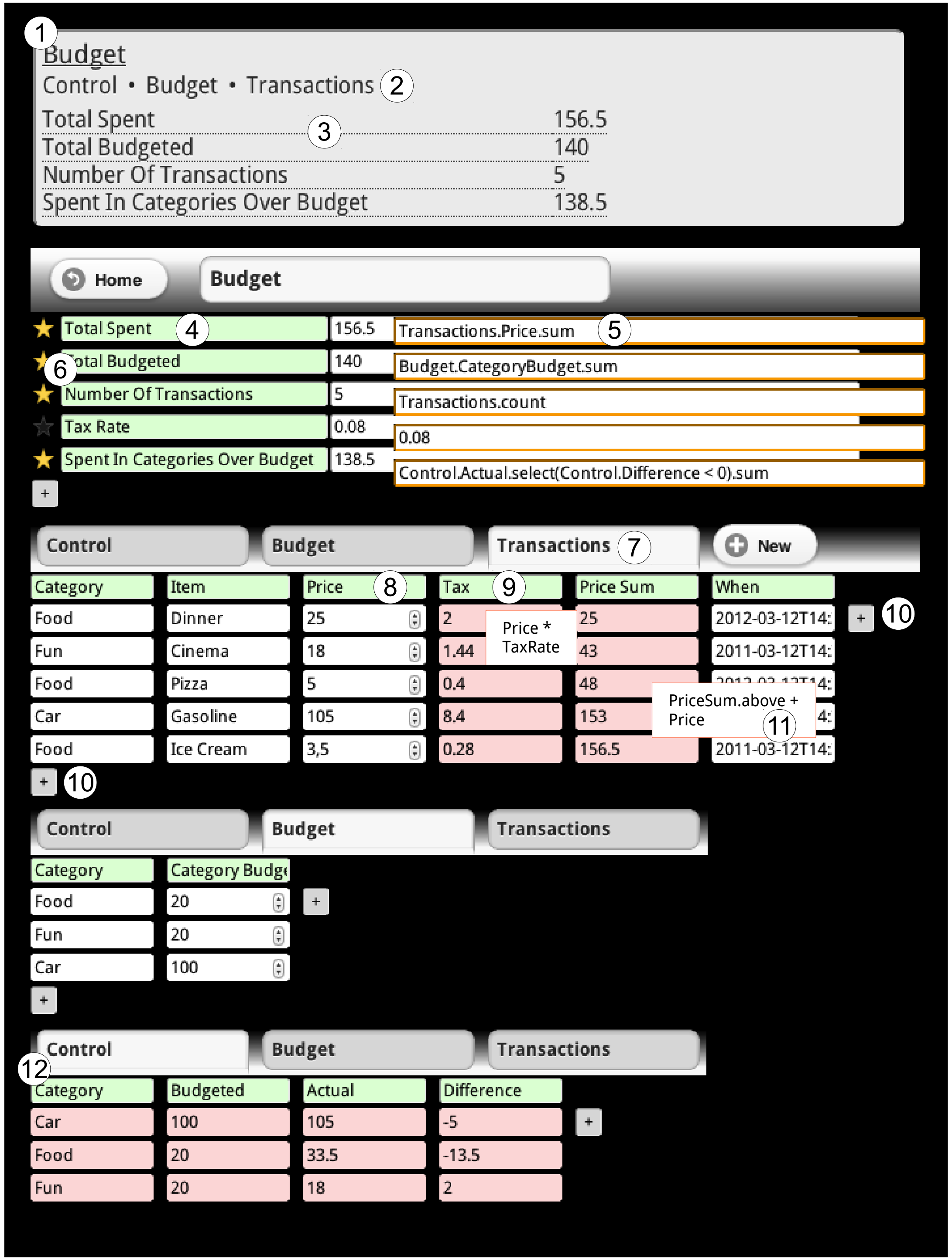
A list is named (7) and consists of columns. A **column** contains either values (8) or an expression (9). Columns and rows are appended using the „+“-buttons (10).

In an expression, `ListName.ColumnName` references the contained or calculated data in list form. On that **list object** functions like `sum`, `count` and `select` are called using `ListName.ColumnName.functionName`.

A **column expression** is calculated for each row of the list. `ColumnName` accesses the corresponding value in the same row, `ColumnName.above` the value one row above (11). Singulars can be referenced (9).

A **list aggregation** is created with an expression which returns a list in the first column. In the example (12) `uniques` returns a list with each value of the referenced column contained once. Aggregated data is then calculated in the other columns by using `select` and `sum` over the other table columns.

Column	Expression
Category	`Transactions.Category.uniques`
Budgeted	`Budget.CategoryBudget.select(Category == Budget.Category).sum`
Actual	`Transactions.Price.select(Category == Transactions.Category).sum`
Difference	`Budgeted - Actual`



Budget

Control • Budget • Transactions

Total Spent	156.5
Total Budgeted	140
Number Of Transactions	5
Spent In Categories Over Budget	138.5

★	Total Spent	156.5	Transactions.Price.sum
★	Total Budgeted	140	Budget.CategoryBudget.sum
★	Number Of Transactions	5	Transactions.count
☆	Tax Rate	0.08	0.08
★	Spent In Categories Over Budget	138.5	Control.Actual.select(Control.Difference < 0).sum

Category	Item	Price	Tax	Price Sum	When
Food	Dinner	25	2	25	2012-03-12T14:
Fun	Cinema	18	1.44	43	2011-03-12T14:
Food	Pizza	5	0.4	48	2012-03-12T14:
Car	Gasoline	105	8.4	153	4:
Food	Ice Cream	3,5	0.28	156.5	2011-03-12T14:

Price * TaxRate

PriceSum.above + Price

Category	Category Budge
Food	20
Fun	20
Car	100

Category	Budgeted	Actual	Difference
Car	100	105	-5
Food	20	33.5	-13.5
Fun	20	18	2