ELEMENTSTATS

Interactive Statistics on Model

QUICKCARD – V1.0 – 10 JAN 2015

1. Overview

ElementStats is a standalone script which provides interactive statistics about the elements of the model: Groups, Components and Drawing entities, such as faces, edges, etc….
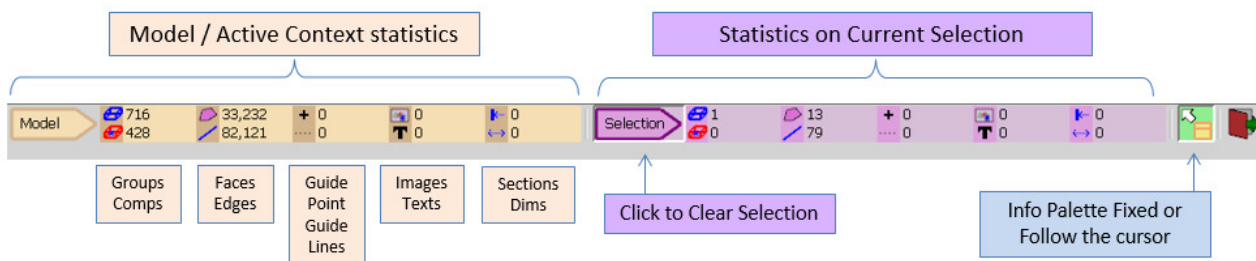
Statistics are given on:
- **The active model** (and active context, if within a group or component)
- **The selection** (initial, set by the Outliner or interactive selection)
- **The entities under the cursor**. Information is displayed in a floating palette

ElementStats is part of **FredoTools v2.5** and above. See FredoTools installation.

2. Statistics on Active Model and Selection

The statistics are displayed in the **Main Palette**:

Within **ElementStats**, the selection can be set / cleared by:
- The Outliner or shortcuts (like Ctrl-A, Ctrl-T)
- By clicking on a group or component → select just the group / component
- By double-Clicking on a group or component → select it and all its descendants
- By clicking on an entities at top level. Double-click will select surface, if any, if the entity under the cursor is a Face.

The information will be updated interactively in the left part of the main palette.

3. Interactive Statistics

When you hover the cursor over the elements of the model, a Floating palette will give statistics and information on Group / Component (if any) as well as the entity under the cursor.

1) **When the entity belongs to a Group or Component**, the information is displayed in a big floating palette with statistics arranged in 4 columns. Depending on the context, only the relevant columns are displayed:
   - **The Group / Component** entities
   - The Group / Component <u>and</u> **all its descendants**
   - Its **Direct Parent** and all its descendants
   - The **Top Parent** (i.e. at first level of Model or active context) and all its descendants

Note that the current Group / Component, Direct Parent and Top Parent are highlighted in the corresponding color in the model:

2) **When the entity is at top level of the model or active context**, the information is displayed in a small floating palette with statistics on the entity picked. Note also that extra information is possibly displayed if the entity is:

- a **Face**: Surface information is shown is applicable
- an **Edge**: Curve information is shown if the edge belongs to a curve. Arcs, circles and polygons are also detected and their center displayed.

4. Other Options – Default Parameters

1) Floating Palette Position

The floating palette can either:

- be **Fixed**: you can however move it around. The position is saved across SU sessions.
- or **Follow the cursor**.

This option can be toggled in the Main palette and in the Default Parameters dialog box.

2) Debug Information (for developers only)

In the Default Parameters dialog box, you can activate the option for displaying the **entityID** and **Ruby Object address** of the entities picked