GenISys
Advancing the Standard

BEAMER

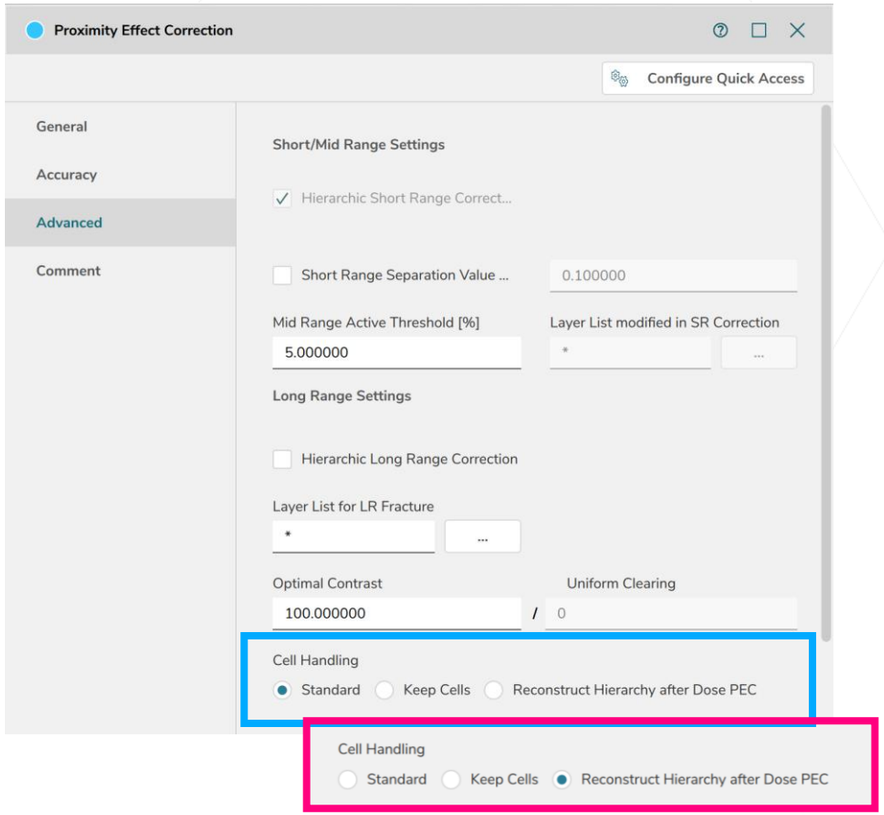
What’s new v7.4

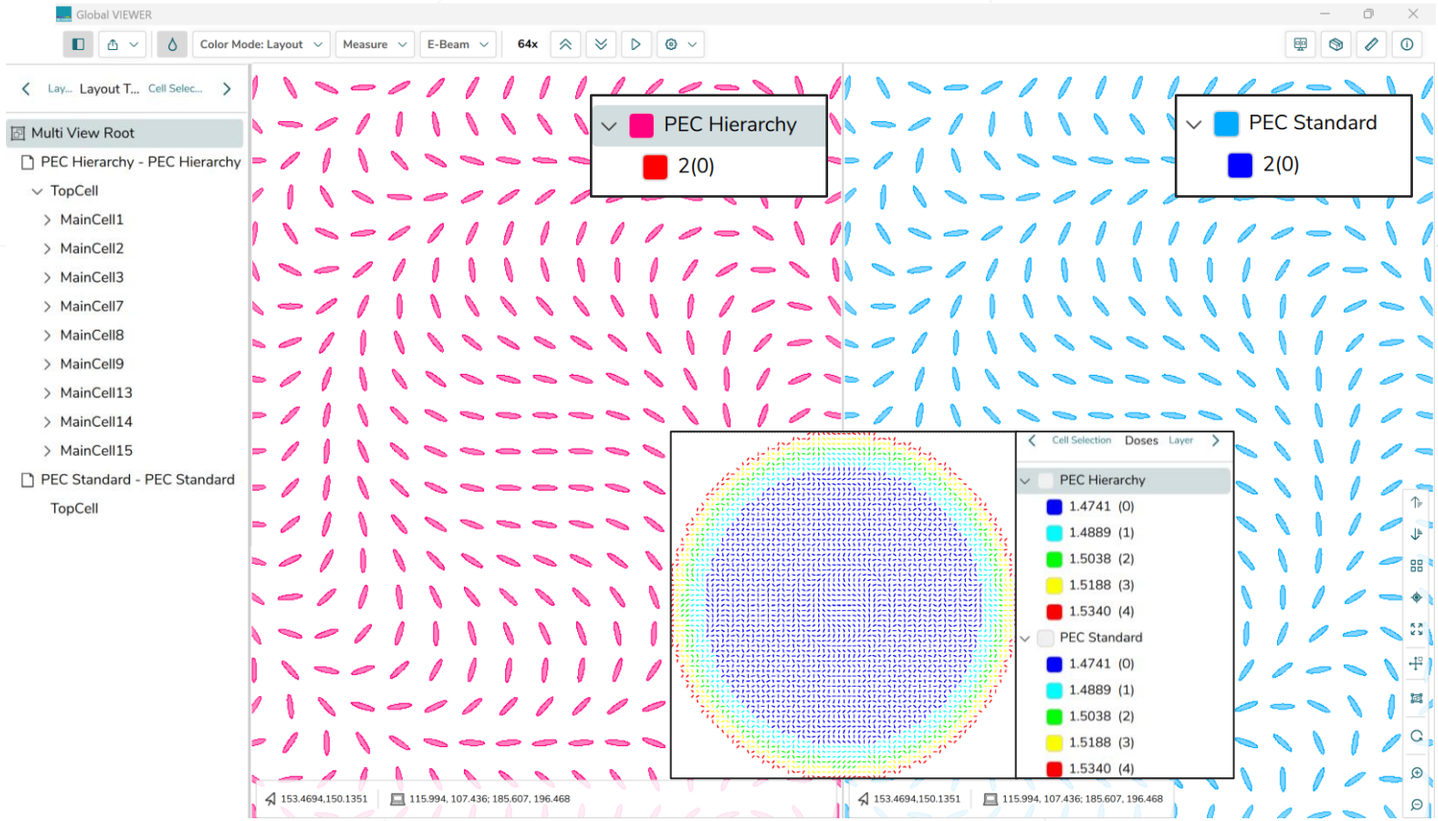
PEC Module

Reconstructed Hierarchy after PEC

Hierarchy Levels in PEC

PEC preserves Hierarchy maintaining field order and allowing to use *Cell To Field* during layout export

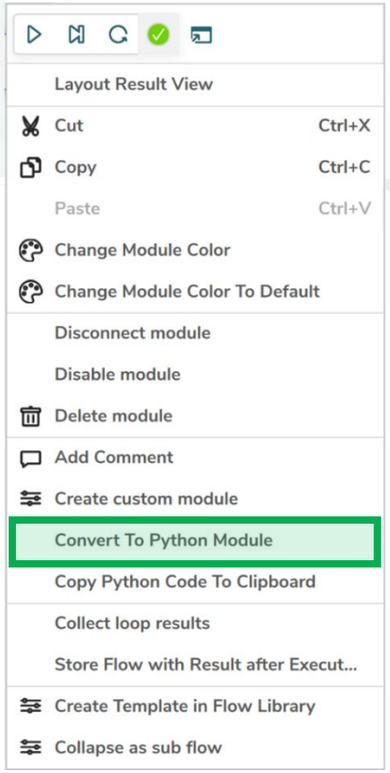


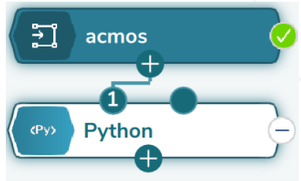


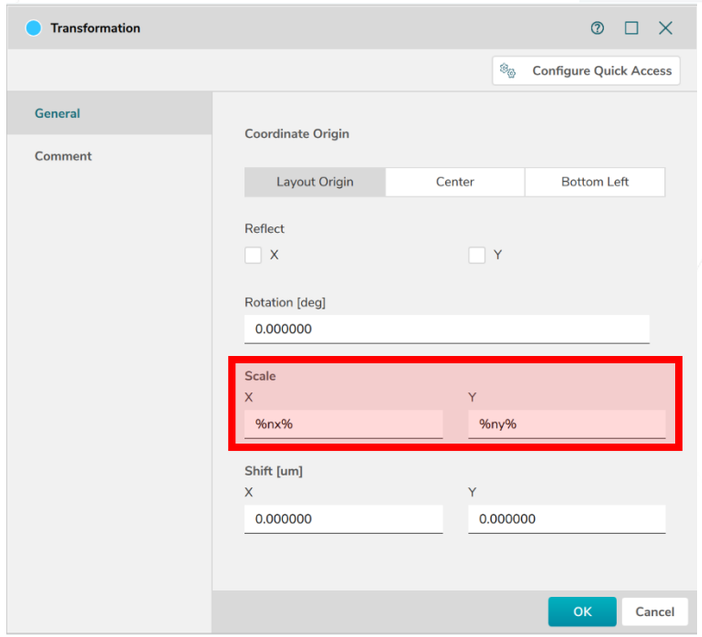
Python

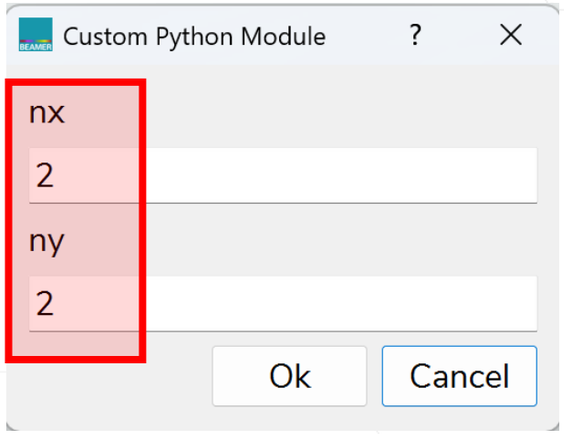
Modules and Python

Two or more **modules** can be **converted** to a useable script in a **Python module** where **variables** in modules **activate** the Py-**GUI** scripting **features**









Barcodes and QR Codes

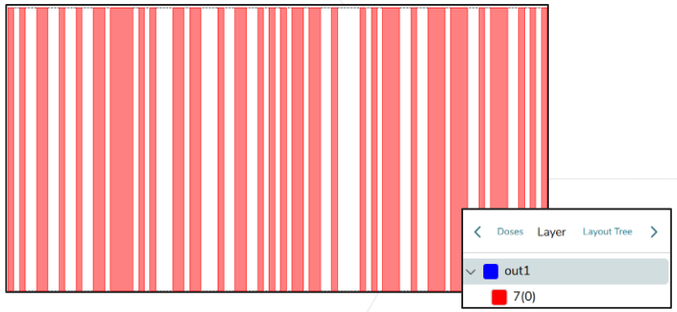
LayoutPy includes **new objects** to create

- **Barcodes** based on **UPC-A** and **EAN-13** schemes
- **QR codes**

Barcodes

Python Script
Python GUI Script
Comment

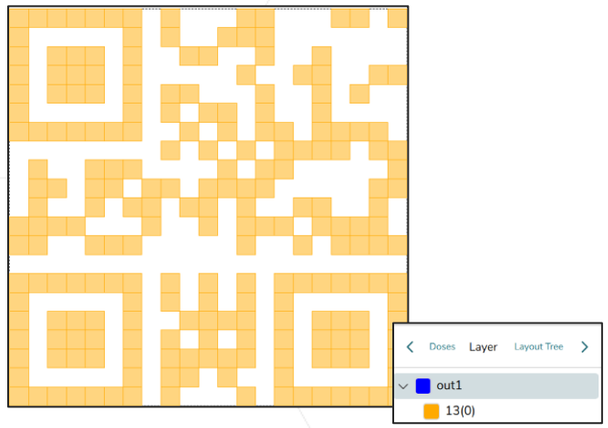
```
1  from LAYOUTpy import *
2
3  db = Database()
4  with Transaction(db) as txn :
5      txn.insert(Barcode((-2900, 1200), (-2600, 1300), '0123451234500', encoding = 'EAN-13', layer = 7))
6  db.close()
7  out1 = db.togobject()
```



QR code

Python Script
Python GUI Script
Comment

```
1  from LAYOUTpy import *
2
3  db = Database()
4  with Transaction(db) as txn :
5      txn.insert(QRcode((-2900, 1200), 100, 'GenISys GmbH', layer = 13))
6  db.close()
7  out1 = db.togobject()
```

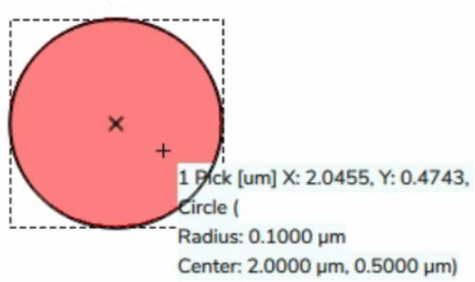


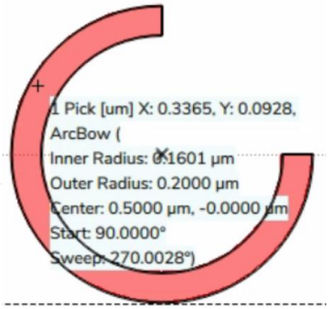
Viewer

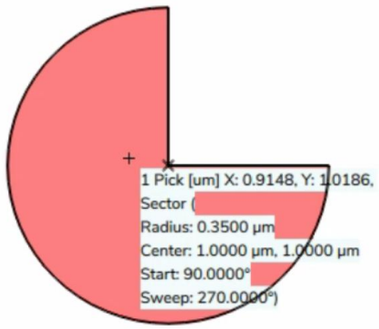
Primitives Information

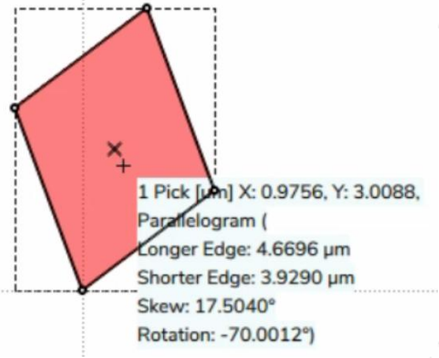
Pick shapes in **Viewer** shows relevant **information** of **specific primitives**:

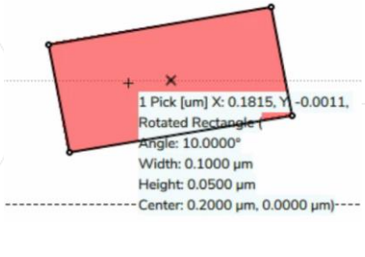
Primitives	Information shown in Viewer
Circle	Radius, Centre
Sector	Radius, Centre, Start, Sweep
Ring	Inner Radius, Outer Radius, Centre
Arc Bow	Inner Radius, Outer Radius, Start, Sweep, Centre
Rotated Rectangle	Angle, Width, Height, Centre
Parallelogram	Longer Edge, Shorter Edge, Skew, Rotation
Ellipse	Major Radius, Minor Radius, Angle, Eccentricity, Centre…
Path	Width, End Cap, Extension Length

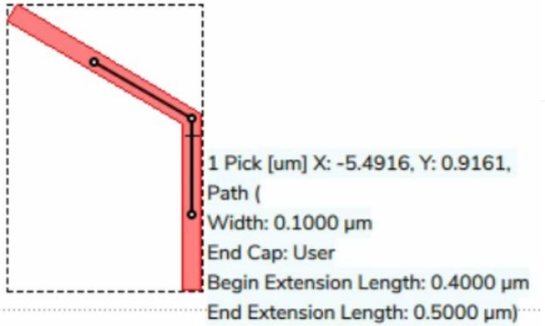


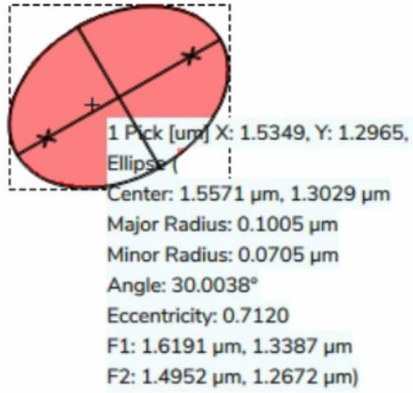


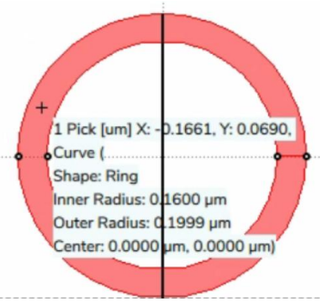






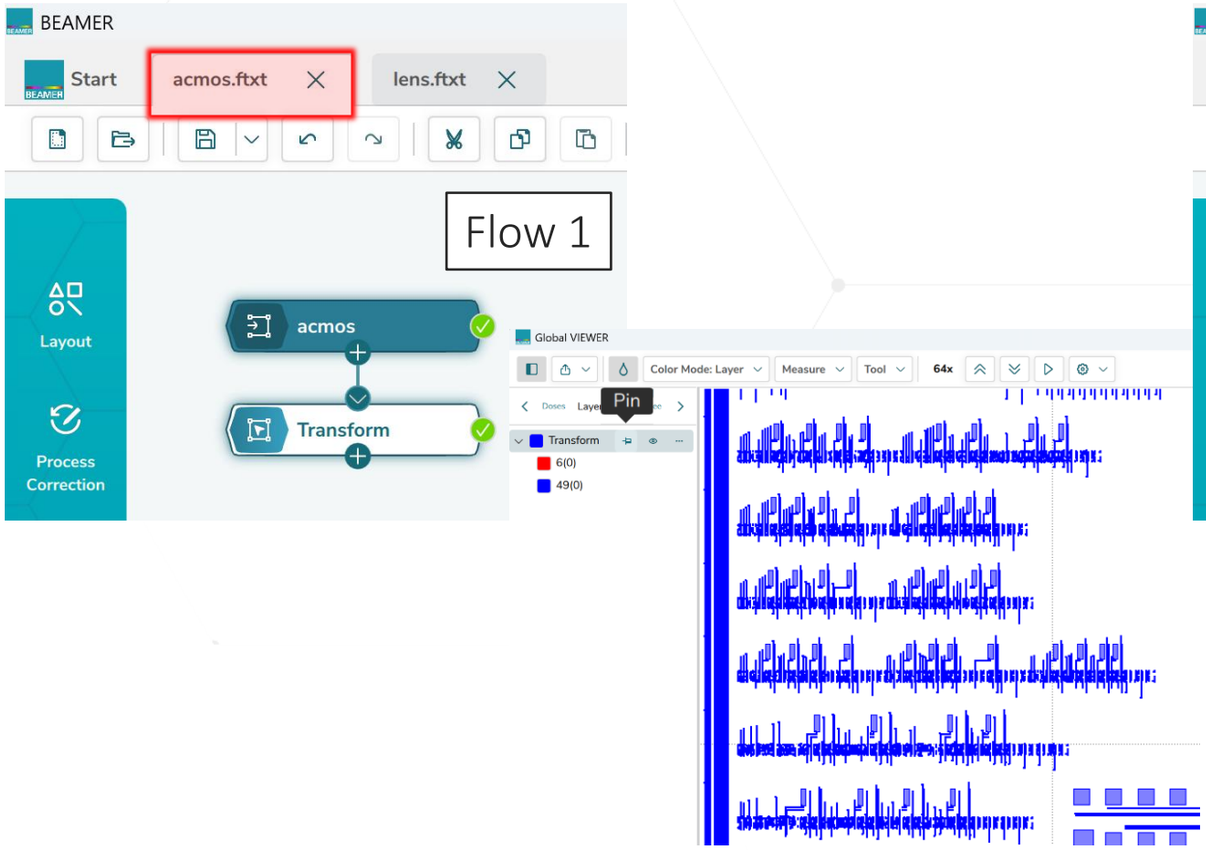


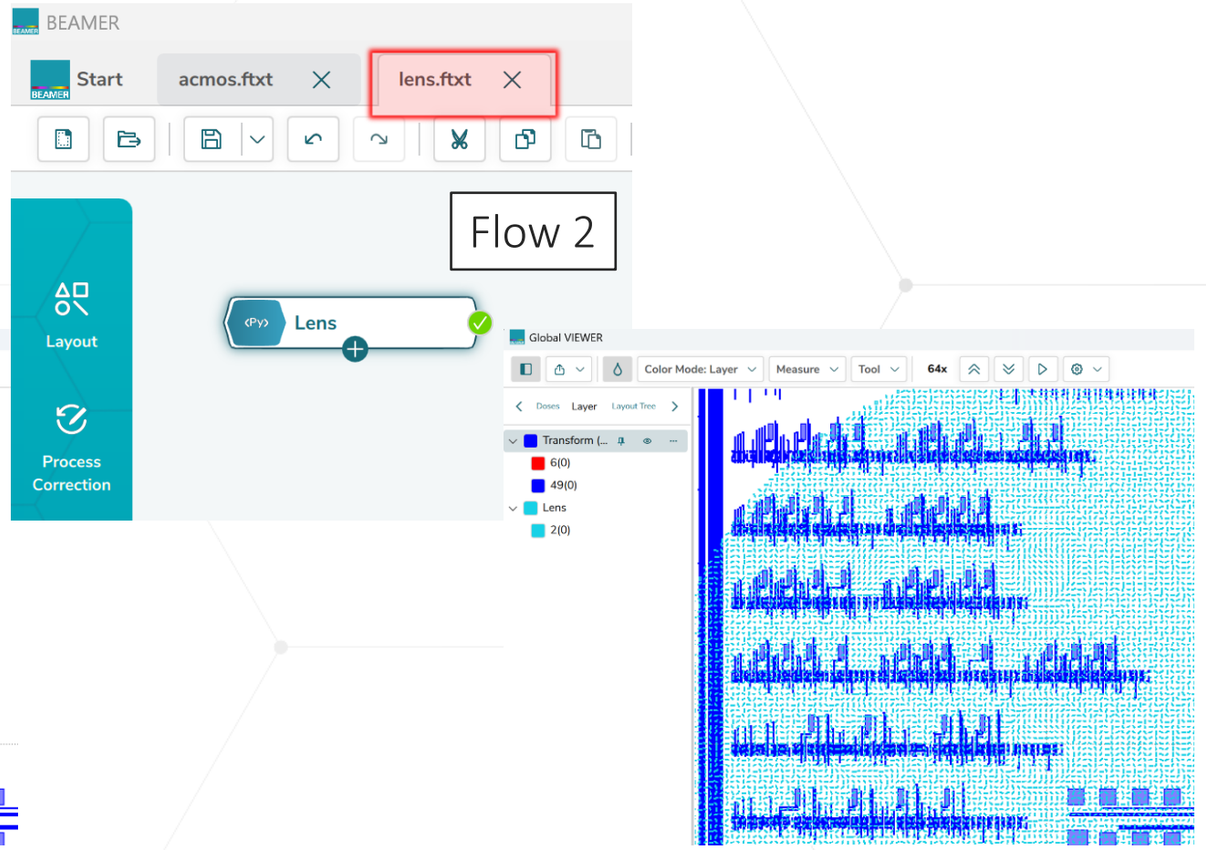




Pinning Layouts

The **Pin** feature in the global **Viewer** allows comparing two or more **layouts across different flows**

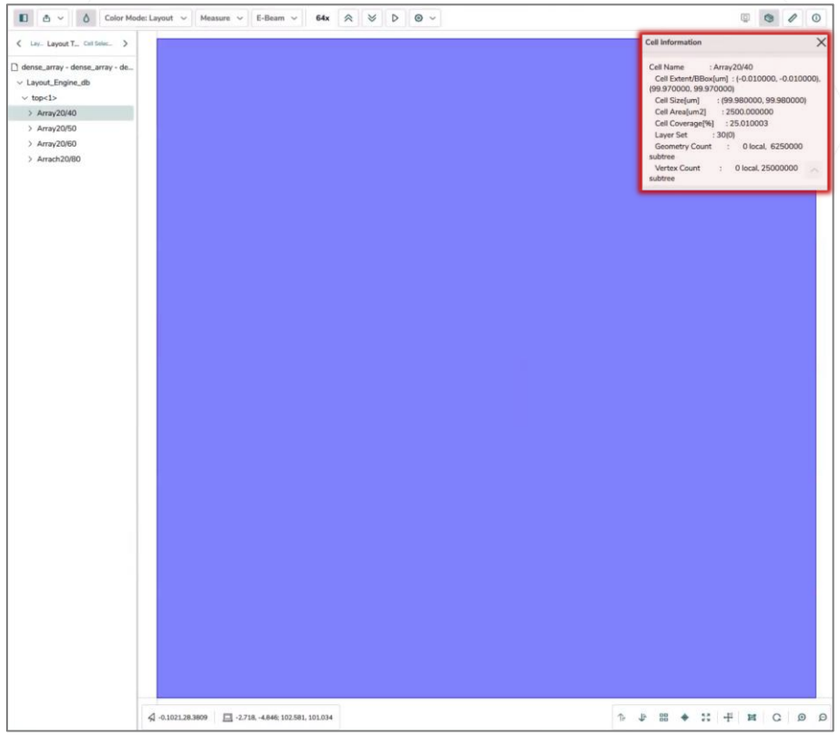


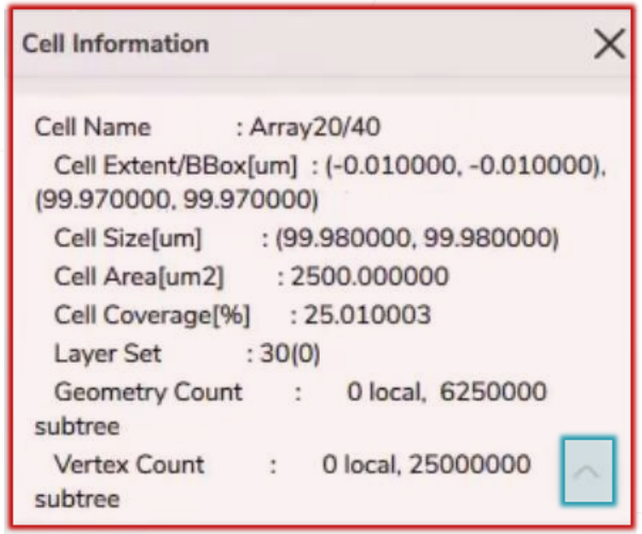


Cell Extent Information

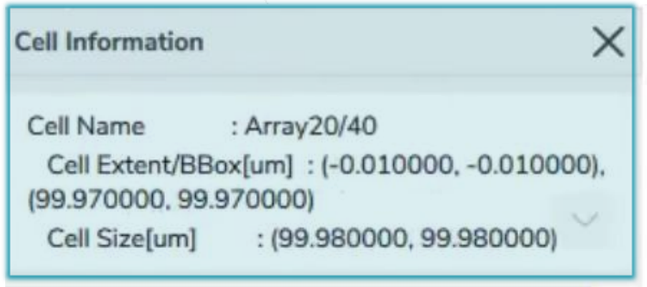
The **Cell Information** in **Viewer**

- provides **full** (default) or **extent only details**
- **preserves** its opened or closed **status after closing** the viewer





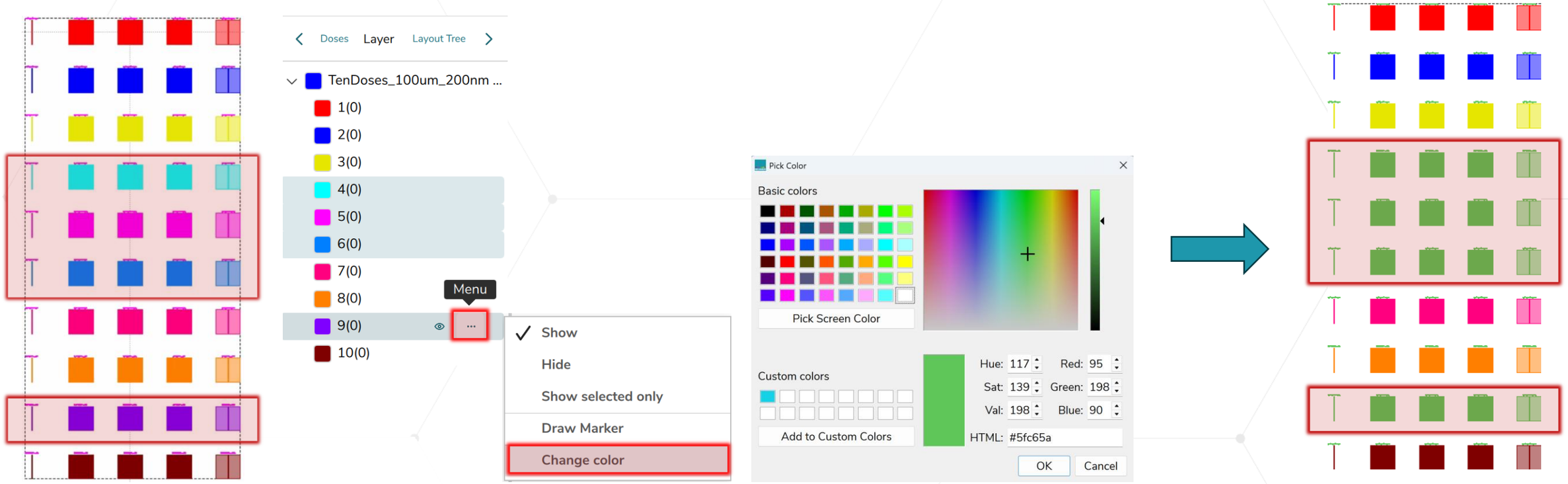
Cell Information: **full**



Cell Information: **extent only**

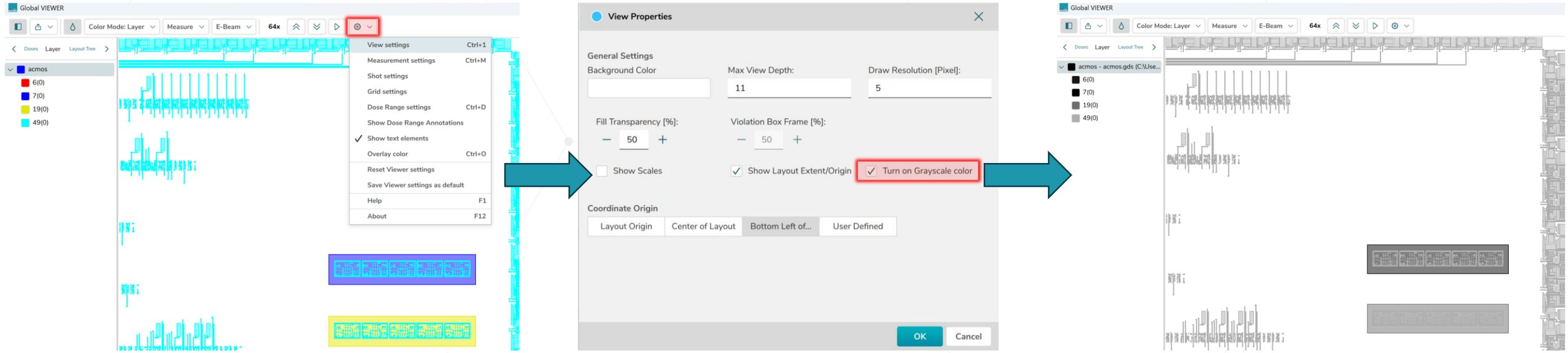
Colour Change

BEAMER allows **changing** the **colour** of **multiple layers** at once



Grayscale Option

Color by Layer and Layout use shades of grey when activating the setting Turn on Grayscale color

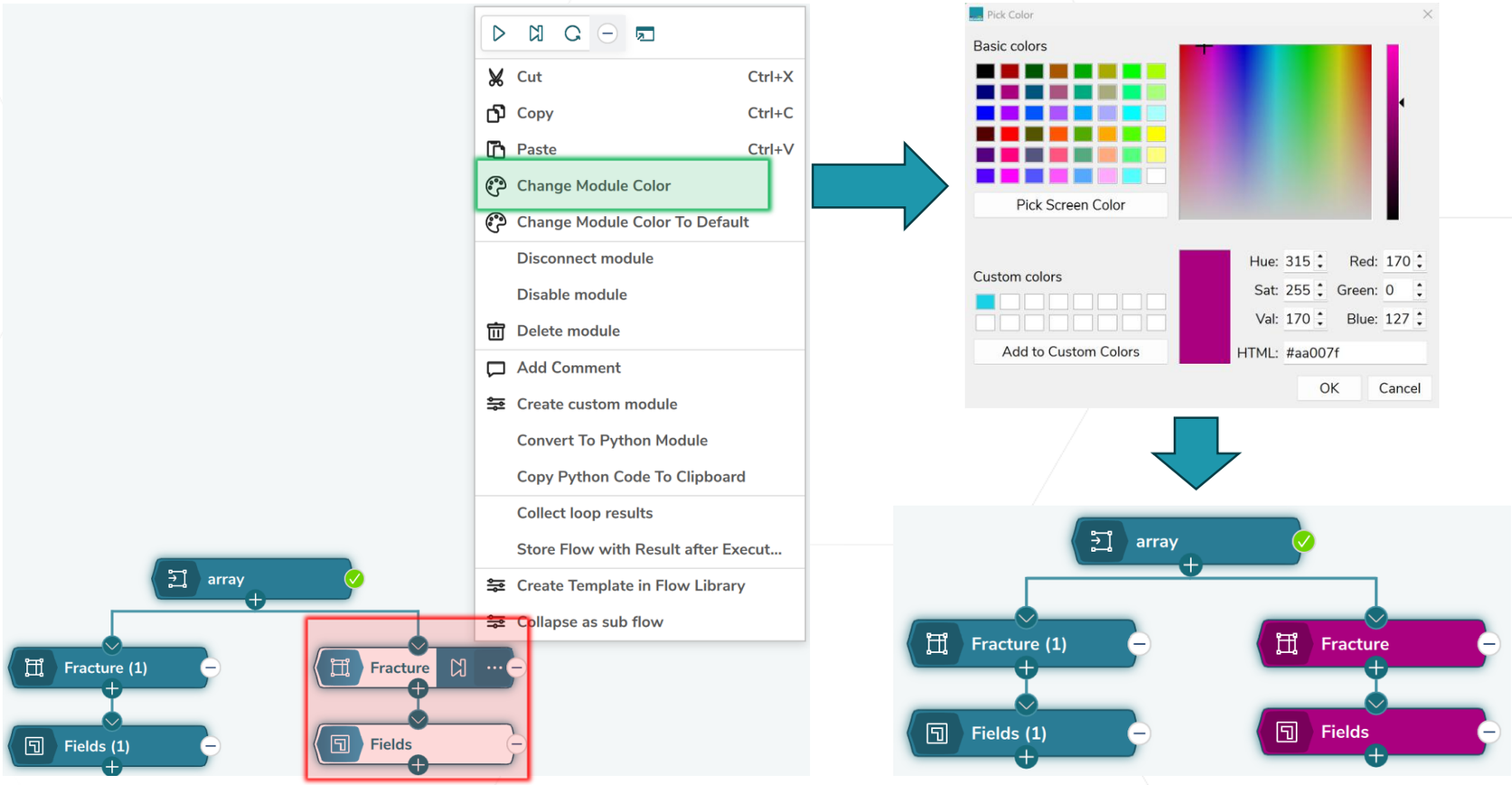


Usability

Change Module Colour

Customise the colour of modules to

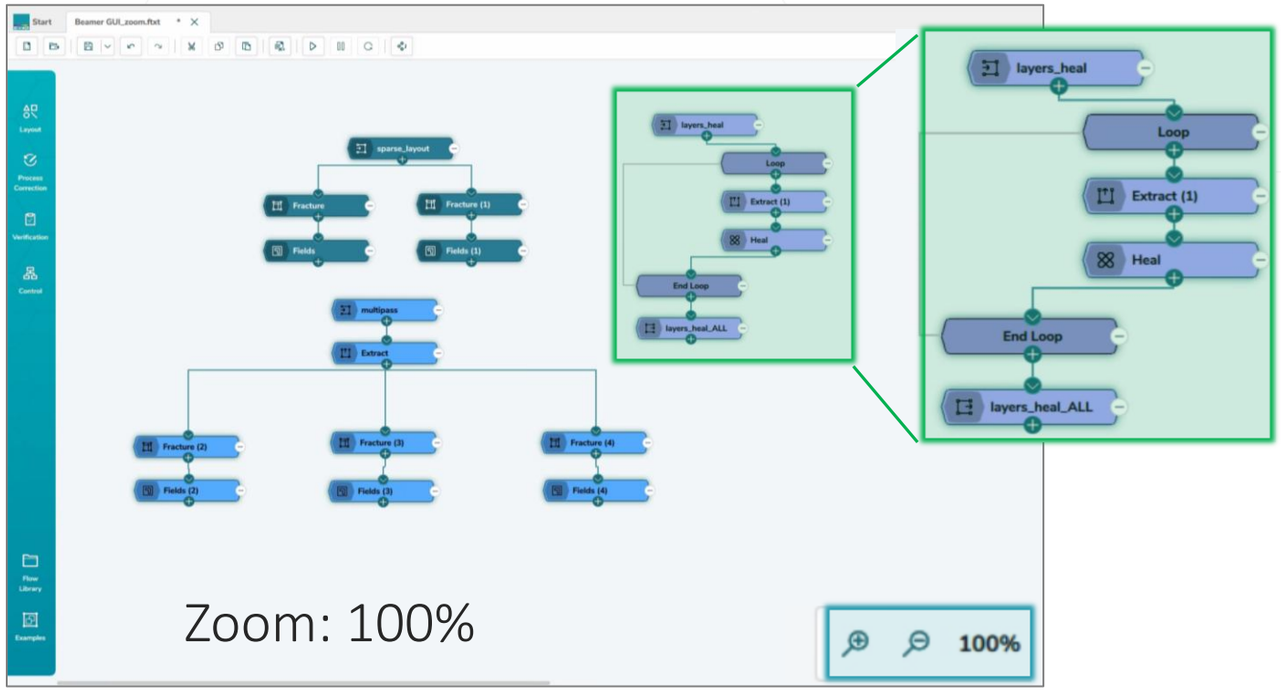
- differentiate flow branches
- highlight special modules
- enhance contrast and readability



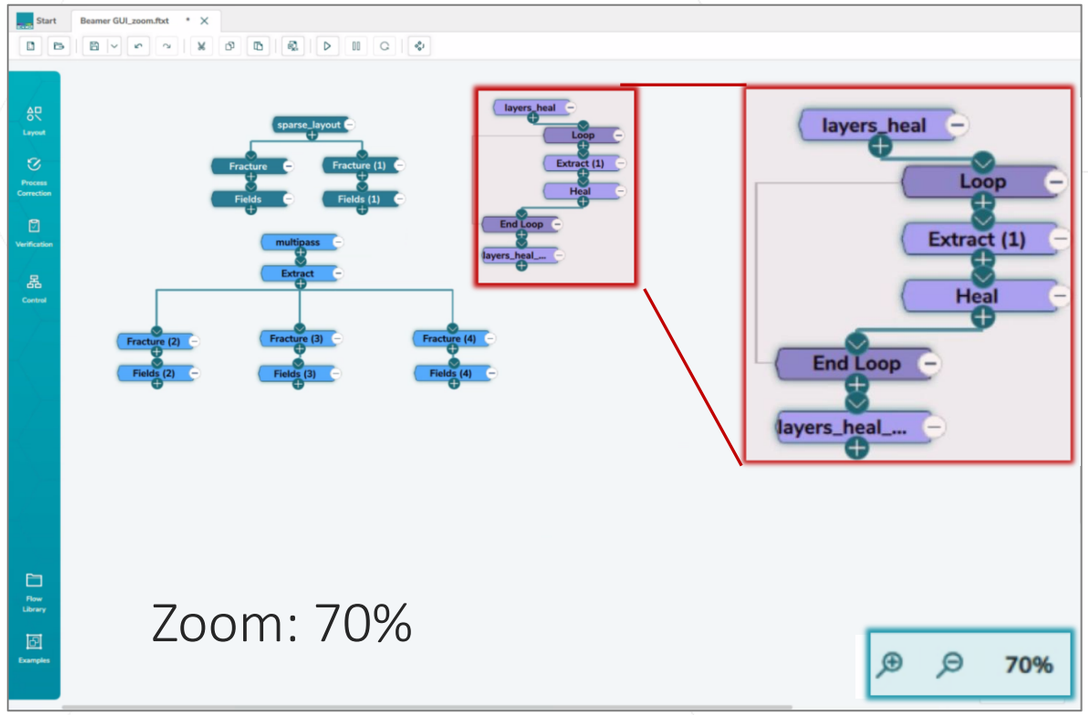
Improved Flow Area Zoom

Zooming in a flow area enhances module visibility by:

- keeping the same font size, connectors and ports regardless of zoom level
- skipping icons on modules



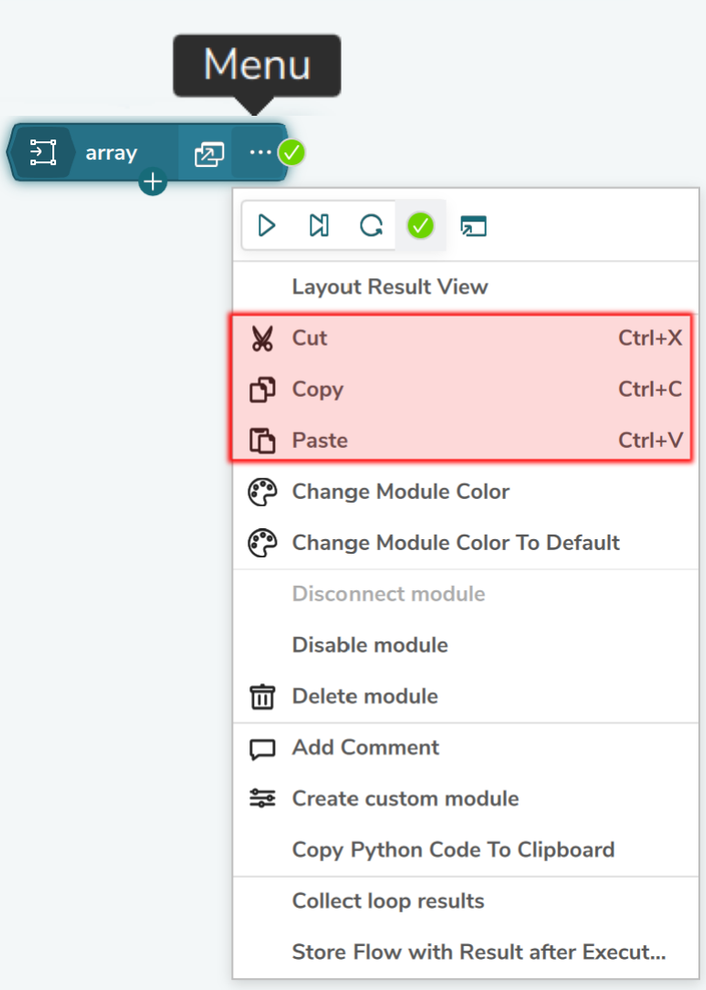
Zoom: 100%



Zoom: 70%

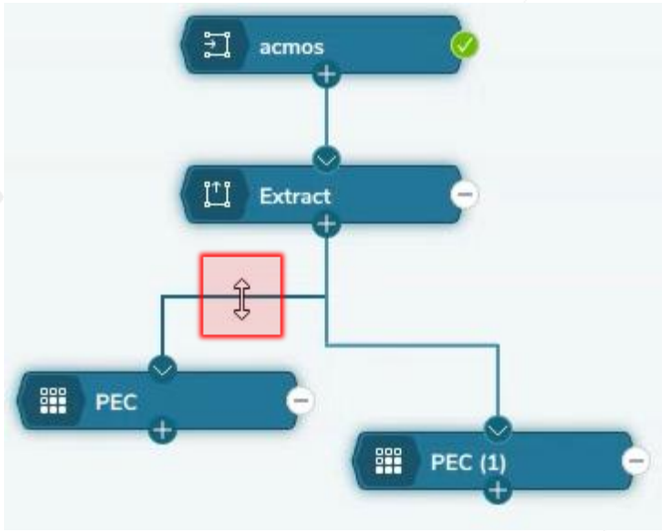
Cut, Copy and Paste Commands

The features **Cut**, **Copy** & **Paste** are included in each module's context menu



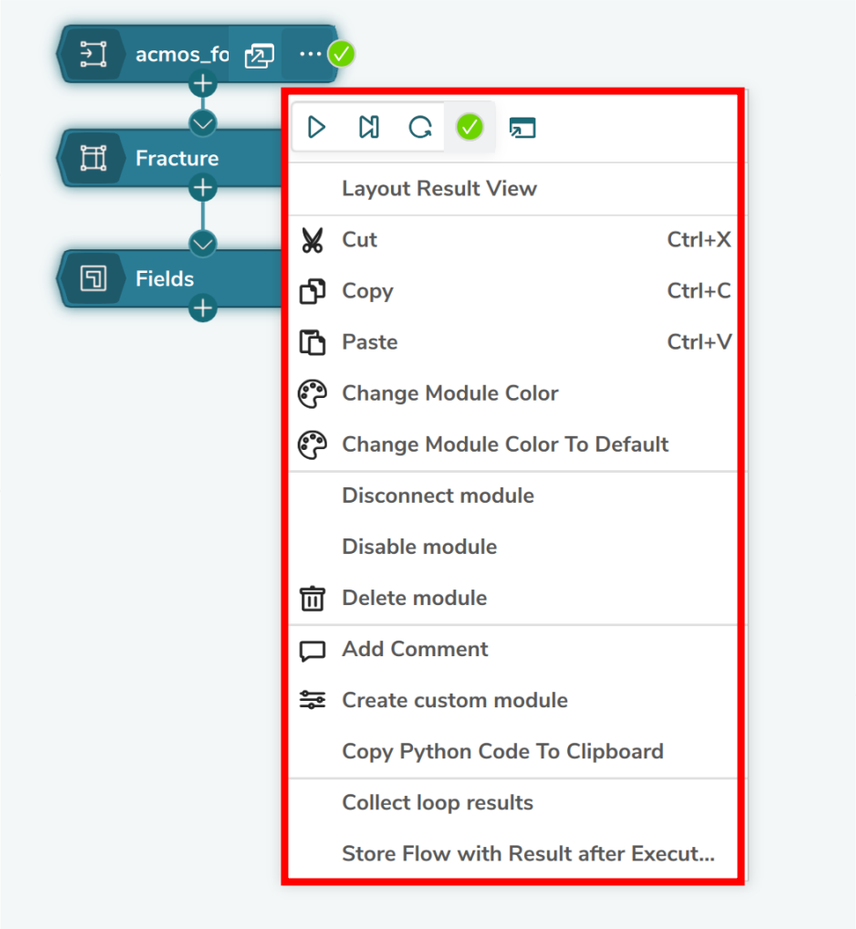
Movable Manhattan Connections

Manhattan connection style allows to move up and down the junctions using the mouse



Mouse Right-Click

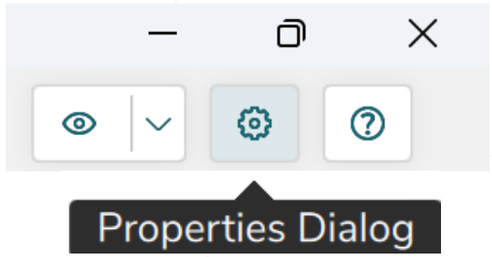
Mouse right-clicking on a module also opens the context menu

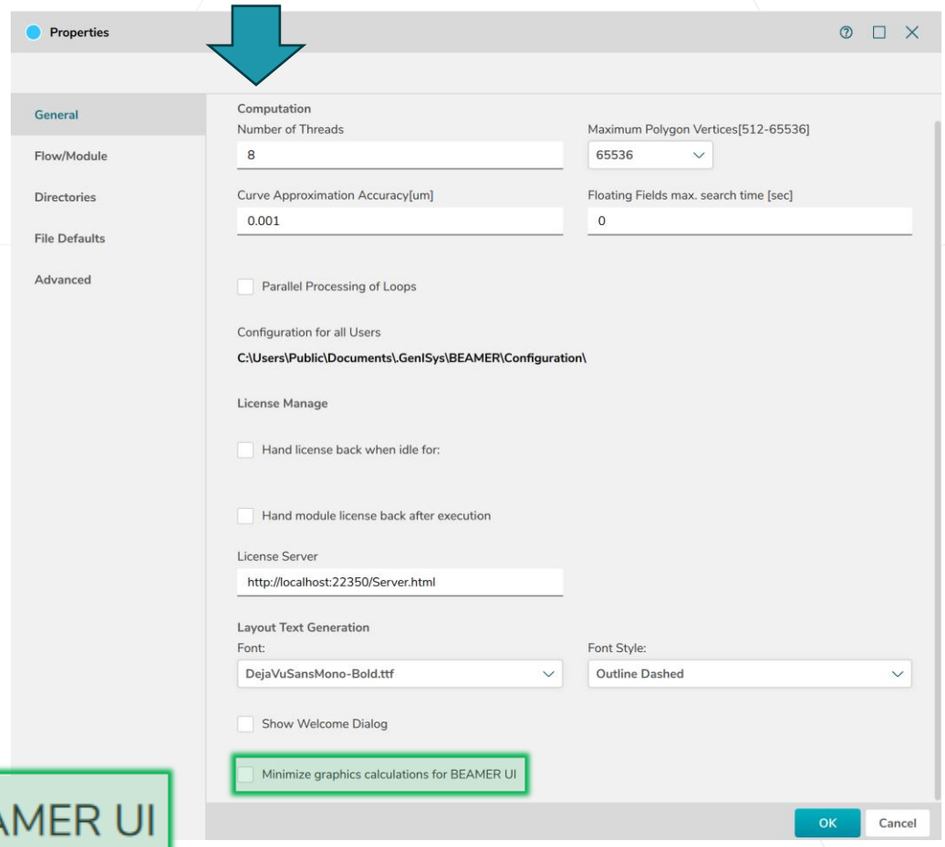


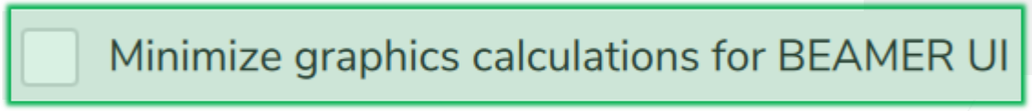
Properties

Minimising Graphics Calculations

Minimize graphics calculations for BEAMER UI is available: switching to this mode minimises the compute intensive graphics display, like shadowing, colour gradients...





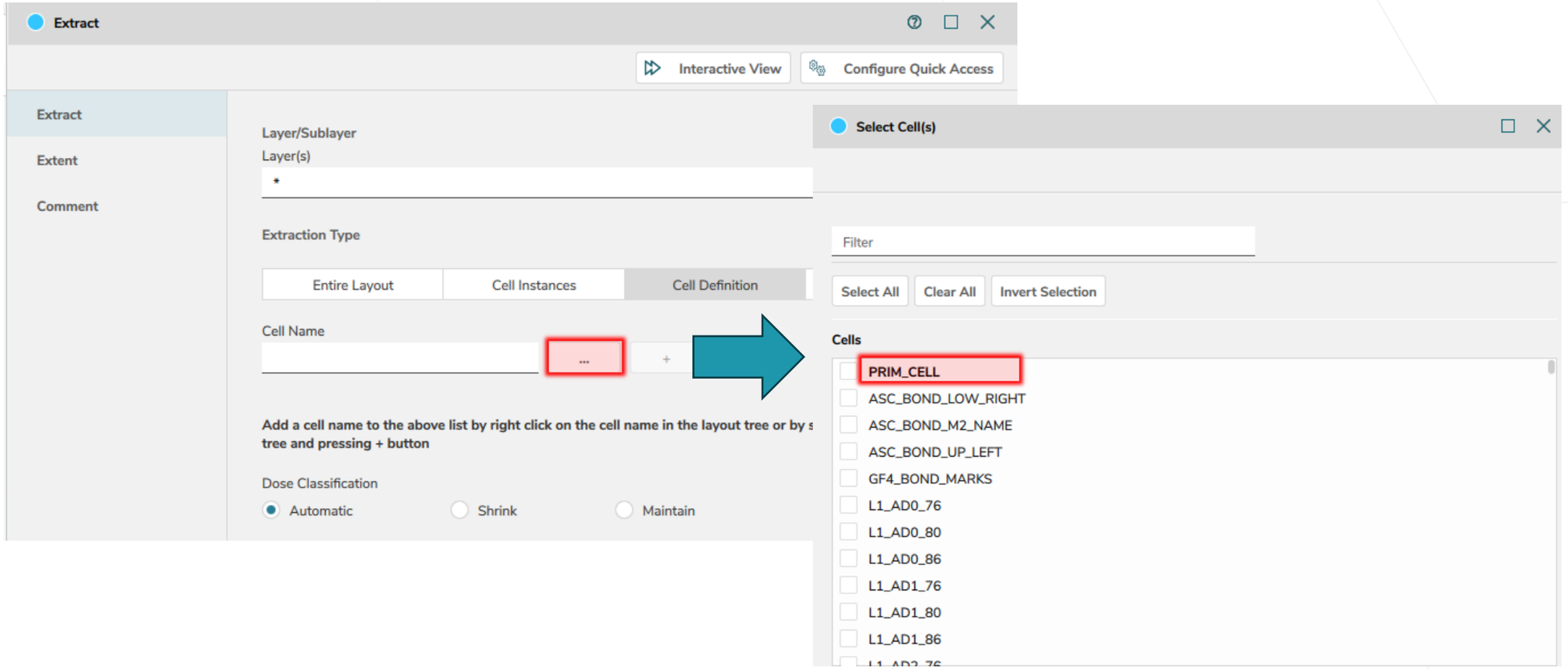


Extract Module

Improving top-level cell visibility

Top Cell Visibility

The Extract module highlights the **highest-level cell** of a layout by **bolding** and **placing** it at the **top**



Thank You!

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