

glial_cmp_t

Properties

- **uid**: unique identifier (among somas/extensions if soma/extension)
- **sites**: coordinate of voxels composing the component (in numpy-lexicographical order). As a tuple of per-coordinate numpy arrays
- **connection_path**: dictionary of the connection paths from the component to the extensions. Uses extension uid as key. Each path is a tuple of per-coordinate tuples of integers.
- **extensions**: list of extensions connected to the component
- **img_shape**: size of 3D image the component was detected in

Actions

InitializeFromMap: component creation

- input: binary map of the component
- sets **uid**, **sites**, **img_shape**
- sets **connection_path**, **extensions** to empty

ExtendWith: glue an extension to the component

- input: extension, connection path, cost image for Dijkstra
- adds the connection path to **connection_path**
- adds the extension to **extensions**
- tells the extension to add the component as its parent
- Modify the cost image to mark the connection and extension sites as forbidden

