NAMESPACE

GF_hybrid

Source: hybrid.js:9 (hybrid.js.html#source-line-9)

GroundForge page generator.

The surrounding page should take care of the house style like headers footers and menu's with help pages..

Requires: d3.v4.min.js - GroundForge-opt.js - nudgePairs.js (nudgeDiagram) - panel.js - hybrid.css

Methods

load(container) (GF_hybrid.html#.load)

loadDroste(container) (GF_hybrid.html#.loadDroste)

loadSimple() (GF_hybrid.html#.loadSimple)

loadStitches(container) (GF_hybrid.html#.loadStitches)

Methods

STATIC

load(container)

Loads all components required for the droste mixer.

Parameter

Name	Type	Optional	Description
container	HTMLElement		receives the generated components Value must not be null.

STATIC

loadDroste(container)

Wrapper for loadSimple. Initial step is 1 and specs panel is shown immediately

Parameter

Name	Type	Optional	Description
container	HTMLElement		receives the generated components Value must not be null.

STATIC

loadSimple()

Wrapper for load. Hiding some elements and adding a control that keeps both step inputs in sync.

STATIC

loadStitches(container)

Wrapper for loadSimple. Initial step is 0 and specs panel is initially hidden, shown when step becomes larger.

Parameter

Name	Type	Optional	Description
container	HTMLElement		receives the generated components Value must not be null.

Globals (global.html)
GF_hybrid (GF_hybrid.html)
GF_panel (GF_panel.html)

NAMESPACE

GF_panel

Source: panel.js:7 (panel.js.html#source-line-7)

GroundForge component generator.

Requires: d3.v4.min.js - GroundForge-opt.js - nudgePairs.js (nudgeDiagram)

Methods

diagramSVG(namedArgs) (GF_panel.html#.diagramSVG)

downloadSVG(containerId, filename) (GF_panel.html#.downloadSVG)

load(config) (GF_panel.html#.load)

nudge(containerId[, type]) (GF_panel.html#.nudge)

Methods

STATIC

diagramSVG(namedArgs) → HTMLElement

Generates an SVG diagram.

Parameters

Name	Type	Optional	Description
namedArgs	Object		Values in `namedArgs` have the following properties:

Name	Type	Optional	Description
id	string	Yes	Optional ID of the container element to render the SVG into.
type	string	Yes	Type of diagram: 'pair' or 'thread'. Defaults to `'pair'`.
steps	Array of string	Yes	droste stitch definitions: for each element a pair diagram is created from the (previous) thread diagram. Defaults to `[]`.
query	string		URL arguments. Note that the arguments *droste2* and *droste3* are the equivalent of *steps[0]* and *steps[1]* respectively. This method uses the values of the *steps* option. The pages of GroundForge use the query parameters to pass a pattern back and forth between *pattern*, *stitches* and *droste*. The query keys were numbered with 2nd and 3rd pair diagram in mind.
size	Object	Yes	Size configuration for the SVG. Default (A4 similar to US letter, A3 similar to Tabloid or Ledger, A2) depends on the number of steps.

Returns `HTMLElement` SVG unless `id` is provided. To be used outside a panel context, no nudging is applied.

STATIC

downloadSVG(containerId, filename)

Downloads the SVG content of the specified container as a file.

Parameters

Name	Type	Optional	Description
containerId			
filename			

STATIC

load(config)

Creates the panel structure with a configurable set of controls in the caption.

```
<figure class="gf-panel"><figcaption>...</figcaption><div id="..."></div></figure>
```

Parameters

Name	Type	Optional	Description
config	Object		Configuration for the panel. Values in `config` have the following properties:

Name	Type	Optional	Description
caption	string		Plain text or HTML string generated at the start of the `figcaption`.
id	string		The unique ID for the `div` element.
wandHref	string	Yes	Optional URL for the reload (wand) icon, typically: `javascript:...`. Creates the controls *wand* and *href*.
controls	Array of string	Yes	List of control names to include. Recognized values: • 'cleanup': Adds a cleanup (broom) button to clean up content. Intended for the specification panel on a droste page. • 'color': Adds a color chooser. looks and dialog may vary per browser. Its value is used to highlight threads or stitches in thread diagrams. • 'resize': Adds maximize, minimize, and reset size controls.
size	Object	Yes	Optional size for the panel (e.g., `{width: '300px', height: '300px'}`).
parent	HTMLElement	Yes	The parent element to which the panel will be appended. Default: `document.body`.

STATIC

nudge(containerId[, type])

Spreads nodes in a pair diagram to reduce overlaps.

Called by default for all diagrams except for a primary pair diagram (no `steps`), Also called by resume control which is also available for the primary pair diagram.

Uses d3-force to apply forces to the nodes and links of a diagram. Requires d3.js and DiagramSvg.linkPath function of GroundForge-opt.js. See also

- https://devdocs.io/d3~4/d3-force

- https://devdocs.io/d3~4/d3-selection

Wrapper for nudgeDiagram to hide D3js for the caller.

Parameters

Name	Type	Optional	Description

containerId	string		Id of an element containing an SVG with the following requirements.
			• Elements with class `node` and an `id` attribute
			  ◦ Must have attribute `transform="translate(x,y)"`
			• Elements with class `link` and an `id` attribute containing node IDs separated by `-`
			  ◦ Must have attribute `d` defining a path

type	string	Yes	Defaults to 'pair'. Other option is 'thread'.

Globals (global.html)
GF_hybrid (GF_hybrid.html)
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Global

Method

nudgeDiagram(svg, diagramType) (global.html#nudgeDiagram)

Method

nudgeDiagram(svg, diagramType)

Spreads nodes in a pair diagram to reduce overlaps.

SVG requirements:

- Elements with class `node` and an `id` attribute
  - Must have attribute `transform="translate(x,y)"`
- Elements with class `link` and an `id` attribute containing node IDs separated by `-`
  - Must have attribute `d` defining a path

Uses d3-force to apply forces to the nodes and links of the diagram. Requires d3.js and DiagramSvg.linkPath function of GroundForge-opt.js. See also

- https://devdocs.io/d3~4/d3-force
- https://devdocs.io/d3~4/d3-selection

Parameters

Name	Type	Optional	Description
svg			SVG element selected with d3.select
diagramType			'pair' or 'thread' (default: 'thread') Defaults to `thread`.

Globals (global.html)
GF_hybrid (GF_hybrid.html)
GF_panel (GF_panel.html)