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# UILayout(bpy\_struct)

base class — [bpy\\_struct](#)

**class** bpy.types.UILayout(**bpy\_struct**)

User interface layout in a panel or header

## activate\_init

When true, buttons defined in popups will be activated on first display (use so you can type into a field without having to click on it first)

### TYPE:

boolean, default False

## active

### TYPE:

boolean, default False

## active\_default

When true, an operator button defined after this will be activated when pressing return (use with popup dialogs)

### TYPE:

boolean, default False

## alert

### TYPE:

boolean, default False

## alignment

### TYPE:

enum in ['EXPAND', 'LEFT', 'CENTER', 'RIGHT'], default 'EXPAND'

## direction

### TYPE:

enum in ['HORIZONTAL', 'VERTICAL'], default 'HORIZONTAL', (readonly)

## emboss

- `NORMAL` Regular – Draw standard button emboss style.
- `NONE` None – Draw only text and icons.
- `PULLDOWN_MENU` Pulldown Menu – Draw pulldown menu style.
- `RADIAL_MENU` Pie Menu – Draw radial menu style.
- `NONE_OR_STATUS` None or Status – Draw with no emboss unless the button has a coloring status like an animation state.

### TYPE:

enum in ['NORMAL', 'NONE', 'PULLDOWN\_MENU', 'RADIAL\_MENU', 'NONE\_OR\_STATUS'], default 'NORMAL'

## enabled

When false, this (sub)layout is grayed out

### TYPE:

boolean, default False

## operator\_context

### TYPE:

enum in [Operator Context Items](#), default 'INVOKED\_DEFAULT'

### **scale\_x**

Scale factor along the X for items in this (sub)layout

#### **TYPE:**

float in [0, inf], default 0.0

### **scale\_y**

Scale factor along the Y for items in this (sub)layout

#### **TYPE:**

float in [0, inf], default 0.0

### **ui\_units\_x**

Fixed size along the X for items in this (sub)layout

#### **TYPE:**

float in [0, inf], default 0.0

### **ui\_units\_y**

Fixed size along the Y for items in this (sub)layout

#### **TYPE:**

float in [0, inf], default 0.0

### **use\_property\_decorate**

#### **TYPE:**

boolean, default False

### **use\_property\_split**

#### **TYPE:**

boolean, default False

### **row(\*, align=False, heading="", heading\_ctxt="", translate=True)**

Sub-layout. Items placed in this sublayout are placed next to each other in a row.

#### **PARAMETERS:**

- **align** (*boolean, (optional)*) – Align buttons to each other
- **heading** (*string, (optional, never None)*) – Heading, Label to insert into the layout for this sub-layout
- **heading\_ctxt** (*string, (optional, never None)*) – Override automatic translation context of the given heading
- **translate** (*boolean, (optional)*) – Translate the given heading, when UI translation is enabled

#### **RETURNS:**

Sub-layout to put items in

#### **RETURN TYPE:**

[UILayout](#)

### **column(\*, align=False, heading="", heading\_ctxt="", translate=True)**

Sub-layout. Items placed in this sublayout are placed under each other in a column.

#### **PARAMETERS:**

- **align** (*boolean, (optional)*) – Align buttons to each other
- **heading** (*string, (optional, never None)*) – Heading, Label to insert into the layout for this sub-layout
- **heading\_ctxt** (*string, (optional, never None)*) – Override automatic translation context of the given heading
- **translate** (*boolean, (optional)*) – Translate the given heading, when UI translation is enabled

**RETURNS:**

Sub-layout to put items in

**RETURN TYPE:**

`UILayout`

**panel(idname, \*, default\_closed=False)**

Creates a collapsable panel. Whether it is open or closed is stored in the region using the given idname. This can only be used when the panel has the full width of the panel region available to it. So it can't be used in e.g. in a box or columns.

**PARAMETERS:**

- **idname** (*string, (never None)*) – Identifier of the panel
- **default\_closed** (*boolean, (optional)*) – Open by Default, When true, the panel will be open the first time it is shown

**RETURNS:**

*layout\_header*, Sub-layout to put items in, `UILayout`

*layout\_body*, Sub-layout to put items in. Will be none if the panel is collapsed., `UILayout`

**RETURN TYPE:**

(`UILayout` , `UILayout` )

**panel\_prop(data, property)**

Similar to `.panel(...)` but instead of storing whether it is open or closed in the region, it is stored in the provided boolean property. This should be used when multiple instances of the same panel can exist. For example one for every item in a collection property or list. This can only be used when the panel has the full width of the panel region available to it. So it can't be used in e.g. in a box or columns.

**PARAMETERS:**

- **data** (`AnyType` , (never None)) – Data from which to take the open-state property
- **property** (*string, (never None)*) – Identifier of the boolean property that determines whether the panel is open or closed

**RETURNS:**

*layout\_header*, Sub-layout to put items in, `UILayout`

*layout\_body*, Sub-layout to put items in. Will be none if the panel is collapsed., `UILayout`

**RETURN TYPE:**

(`UILayout` , `UILayout` )

**column\_flow(\*, columns=0, align=False)**

`column_flow`

**PARAMETERS:**

- **columns** (*int in [0, inf], (optional)*) – Number of columns, 0 is automatic
- **align** (*boolean, (optional)*) – Align buttons to each other

**RETURNS:**

Sub-layout to put items in

**RETURN TYPE:**

`UILayout`

**grid\_flow(\*, row\_major=False, columns=0, even\_columns=False, even\_rows=False, align=False)**

`grid_flow`

**PARAMETERS:**

- **row\_major** (*boolean, (optional)*) – Fill row by row, instead of column by column
- **columns** (*int in [-inf, inf], (optional)*) – Number of columns, positive are absolute fixed numbers, 0 is automatic, negative are automatic multiple numbers along major axis (e.g. -2 will only produce 2, 4, 6 etc. columns for row major layout, and 2, 4, 6 etc. rows for column

major layout).

- **even\_columns** (*boolean, (optional)*) – All columns will have the same width
- **even\_rows** (*boolean, (optional)*) – All rows will have the same height
- **align** (*boolean, (optional)*) – Align buttons to each other

**RETURNS:**

Sub-layout to put items in

**RETURN TYPE:**

`UILayout`

**box()**

Sublayout (items placed in this sublayout are placed under each other in a column and are surrounded by a box)

**RETURNS:**

Sub-layout to put items in

**RETURN TYPE:**

`UILayout`

**split(\*, factor=0.0, align=False)**

split

**PARAMETERS:**

- **factor** (*float in [0, 1], (optional)*) – Percentage, Percentage of width to split at (leave unset for automatic calculation)
- **align** (*boolean, (optional)*) – Align buttons to each other

**RETURNS:**

Sub-layout to put items in

**RETURN TYPE:**

`UILayout`

**menu\_pie()**

Sublayout. Items placed in this sublayout are placed in a radial fashion around the menu center).

**RETURNS:**

Sub-layout to put items in

**RETURN TYPE:**

`UILayout`

**classmethod icon(data)**

Return the custom icon for this data, use it e.g. to get materials or texture icons.

**PARAMETERS:**

**data** (`AnyType`, (never None)) – Data from which to take the icon

**RETURNS:**

Icon identifier

**RETURN TYPE:**

int in [0, inf]

**classmethod enum\_item\_name(data, property, identifier)**

Return the UI name for this enum item

**PARAMETERS:**

- **data** (`AnyType`, (never None)) – Data from which to take property

enum item identifier (e.g. `enum.Enum` or `enum.IntEnum`)

- **property** (*string, (never None)*) – Identifier of property in data
- **identifier** (*string, (never None)*) – Identifier of the enum item

#### RETURNS:

UI name of the enum item

#### RETURN TYPE:

string (never None)

#### classmethod `enum_item_description(data, property, identifier)`

Return the UI description for this enum item

#### PARAMETERS:

- **data** (*AnyType, (never None)*) – Data from which to take property
- **property** (*string, (never None)*) – Identifier of property in data
- **identifier** (*string, (never None)*) – Identifier of the enum item

#### RETURNS:

UI description of the enum item

#### RETURN TYPE:

string (never None)

#### classmethod `enum_item_icon(data, property, identifier)`

Return the icon for this enum item

#### PARAMETERS:

- **data** (*AnyType, (never None)*) – Data from which to take property
- **property** (*string, (never None)*) – Identifier of property in data
- **identifier** (*string, (never None)*) – Identifier of the enum item

#### RETURNS:

Icon identifier

#### RETURN TYPE:

int in [0, inf]

**prop(data, property, \*, text="", text\_ctxt="", translate=True, icon='NONE', placeholder="", expand=False, slider=False, toggle=-1, icon\_only=False, event=False, full\_event=False, emboss=True, index=-1, icon\_value=0, invert\_checkbox=False)**

Item. Exposes an RNA item and places it into the layout.

#### PARAMETERS:

- **data** (*AnyType, (never None)*) – Data from which to take property
- **property** (*string, (never None)*) – Identifier of property in data
- **text** (*string, (optional)*) – Override automatic text of the item
- **text\_ctxt** (*string, (optional)*) – Override automatic translation context of the given text
- **translate** (*boolean, (optional)*) – Translate the given text, when UI translation is enabled
- **icon** (enum in [Icon Items](#), *(optional)*) – Icon, Override automatic icon of the item
- **placeholder** (*string, (optional)*) – Hint describing the expected value when empty
- **expand** (*boolean, (optional)*) – Expand button to show more detail
- **slider** (*boolean, (optional)*) – Use slider widget for numeric values
- **toggle** (*int in [-1, 1], (optional)*) – Use toggle widget for boolean values, or a checkbox when disabled (the default is -1 which uses toggle only when an icon is displayed)
- **icon\_only** (*boolean, (optional)*) – Draw only icons in buttons, no text
- **event** (*boolean, (optional)*) – Use button to input key events
- **full\_event** (*boolean, (optional)*) – Use button to input full events including modifiers
- **emboss** (*boolean, (optional)*) – Draw the button itself not just the icon/text. When false, corresponds to the 'NONE OR STATUS'

- **checkbox** (*boolean, (optional)*) – Draw the checkbox icon, not just the icon text. When false, corresponds to the `NONE_OR_STATIC` layout emboss type.
- **index** (*int in [-2, inf], (optional)*) – The index of this button, when set a single member of an array can be accessed, when set to -1 all array members are used
- **icon\_value** (*int in [0, inf], (optional)*) – Icon Value, Override automatic icon of the item
- **invert\_checkbox** (*boolean, (optional)*) – Draw checkbox value inverted

#### **props\_enum(data, property)**

props\_enum

##### **PARAMETERS:**

- **data** (*AnyType , (never None)*) – Data from which to take property
- **property** (*string, (never None)*) – Identifier of property in data

#### **prop\_menu\_enum(data, property, \*, text="", text\_ctxt="", translate=True, icon='NONE')**

prop\_menu\_enum

##### **PARAMETERS:**

- **data** (*AnyType , (never None)*) – Data from which to take property
- **property** (*string, (never None)*) – Identifier of property in data
- **text** (*string, (optional)*) – Override automatic text of the item
- **text\_ctxt** (*string, (optional)*) – Override automatic translation context of the given text
- **translate** (*boolean, (optional)*) – Translate the given text, when UI translation is enabled
- **icon** (enum in [Icon Items](#), (optional)) – Icon, Override automatic icon of the item

#### **prop\_with\_popover(data, property, \*, text="", text\_ctxt="", translate=True, icon='NONE', icon\_only=False, panel)**

prop\_with\_popover

##### **PARAMETERS:**

- **data** (*AnyType , (never None)*) – Data from which to take property
- **property** (*string, (never None)*) – Identifier of property in data
- **text** (*string, (optional)*) – Override automatic text of the item
- **text\_ctxt** (*string, (optional)*) – Override automatic translation context of the given text
- **translate** (*boolean, (optional)*) – Translate the given text, when UI translation is enabled
- **icon** (enum in [Icon Items](#), (optional)) – Icon, Override automatic icon of the item
- **icon\_only** (*boolean, (optional)*) – Draw only icons in tabs, no text
- **panel** (*string, (never None)*) – Identifier of the panel

#### **prop\_with\_menu(data, property, \*, text="", text\_ctxt="", translate=True, icon='NONE', icon\_only=False, menu)**

prop\_with\_menu

##### **PARAMETERS:**

- **data** (*AnyType , (never None)*) – Data from which to take property
- **property** (*string, (never None)*) – Identifier of property in data
- **text** (*string, (optional)*) – Override automatic text of the item
- **text\_ctxt** (*string, (optional)*) – Override automatic translation context of the given text
- **translate** (*boolean, (optional)*) – Translate the given text, when UI translation is enabled
- **icon** (enum in [Icon Items](#), (optional)) – Icon, Override automatic icon of the item
- **icon\_only** (*boolean, (optional)*) – Draw only icons in tabs, no text
- **menu** (*string, (never None)*) – Identifier of the menu

#### **prop\_tabs\_enum(data, property, \*, data\_highlight=None, property\_highlight="", icon\_only=False)**

prop\_tabs\_enum

#### PARAMETERS:

- **data** (*AnyType* , (never None)) – Data from which to take property
- **property** (*string*, (never None)) – Identifier of property in data
- **data\_highlight** (*AnyType* , (optional, never None)) – Data from which to take highlight property
- **property\_highlight** (*string*, (optional, never None)) – Identifier of highlight property in data
- **icon\_only** (*boolean*, (optional)) – Draw only icons in tabs, no text

**prop\_enum(data, property, value, \*, text="", text\_ctxt="", translate=True, icon='NONE')**

prop\_enum

#### PARAMETERS:

- **data** (*AnyType* , (never None)) – Data from which to take property
- **property** (*string*, (never None)) – Identifier of property in data
- **value** (*string*, (never None)) – Enum property value
- **text** (*string*, (optional)) – Override automatic text of the item
- **text\_ctxt** (*string*, (optional)) – Override automatic translation context of the given text
- **translate** (*boolean*, (optional)) – Translate the given text, when UI translation is enabled
- **icon** (enum in [Icon Items](#), (optional)) – Icon, Override automatic icon of the item

**prop\_search(data, property, search\_data, search\_property, \*, text="", text\_ctxt="", translate=True, icon='NONE', results\_are\_suggestions=False)**

prop\_search

#### PARAMETERS:

- **data** (*AnyType* , (never None)) – Data from which to take property
- **property** (*string*, (never None)) – Identifier of property in data
- **search\_data** (*AnyType* , (never None)) – Data from which to take collection to search in
- **search\_property** (*string*, (never None)) – Identifier of search collection property
- **text** (*string*, (optional)) – Override automatic text of the item
- **text\_ctxt** (*string*, (optional)) – Override automatic translation context of the given text
- **translate** (*boolean*, (optional)) – Translate the given text, when UI translation is enabled
- **icon** (enum in [Icon Items](#), (optional)) – Icon, Override automatic icon of the item
- **results\_are\_suggestions** (*boolean*, (optional)) – Accept inputs that do not match any item

**prop\_decorator(data, property, \*, index=-1)**

prop\_decorator

#### PARAMETERS:

- **data** (*AnyType* , (never None)) – Data from which to take property
- **property** (*string*, (never None)) – Identifier of property in data
- **index** (*int* in  $[-2, \text{inf}]$ , (optional)) – The index of this button, when set a single member of an array can be accessed, when set to -1 all array members are used

**operator(operator, \*, text="", text\_ctxt="", translate=True, icon='NONE', emboss=True, depress=False, icon\_value=0, search\_weight=0.0)**

Item. Places a button into the layout to call an Operator.

#### PARAMETERS:

- **operator** (*string*, (never None)) – Identifier of the operator
- **text** (*string*, (optional)) – Override automatic text of the item
- **text\_ctxt** (*string*, (optional)) – Override automatic translation context of the given text
- **translate** (*boolean*, (optional)) – Translate the given text, when UI translation is enabled
- **icon** (enum in [Icon Items](#), (optional)) – Icon, Override automatic icon of the item

- **icon** (enum in [Icon Items](#), (optional)) – Icon, Override automatic icon of the item
- **emboss** (boolean, (optional)) – Draw the button itself, not just the icon/text
- **depress** (boolean, (optional)) – Draw pressed in
- **icon\_value** (int in [0, inf], (optional)) – Icon Value, Override automatic icon of the item
- **search\_weight** (float in [-inf, inf], (optional)) – Search Weight, Influences the sorting when using menu-search

#### RETURNS:

Operator properties to fill in

#### RETURN TYPE:

[OperatorProperties](#)

**operator\_menu\_hold(operator, \*, text="", text\_ctxt="", translate=True, icon='NONE', emboss=True, depress=False, icon\_value=0, menu)**

Item. Places a button into the layout to call an Operator.

#### PARAMETERS:

- **operator** (string, (never None)) – Identifier of the operator
- **text** (string, (optional)) – Override automatic text of the item
- **text\_ctxt** (string, (optional)) – Override automatic translation context of the given text
- **translate** (boolean, (optional)) – Translate the given text, when UI translation is enabled
- **icon** (enum in [Icon Items](#), (optional)) – Icon, Override automatic icon of the item
- **emboss** (boolean, (optional)) – Draw the button itself, not just the icon/text
- **depress** (boolean, (optional)) – Draw pressed in
- **icon\_value** (int in [0, inf], (optional)) – Icon Value, Override automatic icon of the item
- **menu** (string, (never None)) – Identifier of the menu

#### RETURNS:

Operator properties to fill in

#### RETURN TYPE:

[OperatorProperties](#)

**operator\_enum(operator, property, \*, icon\_only=False)**

operator\_enum

#### PARAMETERS:

- **operator** (string, (never None)) – Identifier of the operator
- **property** (string, (never None)) – Identifier of property in operator
- **icon\_only** (boolean, (optional)) – Draw only icons in buttons, no text

**operator\_menu\_enum(operator, property, \*, text="", text\_ctxt="", translate=True, icon='NONE')**

operator\_menu\_enum

#### PARAMETERS:

- **operator** (string, (never None)) – Identifier of the operator
- **property** (string, (never None)) – Identifier of property in operator
- **text** (string, (optional)) – Override automatic text of the item
- **text\_ctxt** (string, (optional)) – Override automatic translation context of the given text
- **translate** (boolean, (optional)) – Translate the given text, when UI translation is enabled
- **icon** (enum in [Icon Items](#), (optional)) – Icon, Override automatic icon of the item

#### RETURNS:

Operator properties to fill in

#### RETURN TYPE:

[OperatorProperties](#)



**label(\*, text="", text\_ctxt="", translate=True, icon='NONE', icon\_value=0)**

Item. Displays text and/or icon in the layout.

**PARAMETERS:**

- **text** (*string, (optional)*) – Override automatic text of the item
- **text\_ctxt** (*string, (optional)*) – Override automatic translation context of the given text
- **translate** (*boolean, (optional)*) – Translate the given text, when UI translation is enabled
- **icon** (enum in [Icon Items](#), (optional)) – Icon, Override automatic icon of the item
- **icon\_value** (*int in [0, inf], (optional)*) – Icon Value, Override automatic icon of the item

**menu(menu, \*, text="", text\_ctxt="", translate=True, icon='NONE', icon\_value=0)**

menu

**PARAMETERS:**

- **menu** (*string, (never None)*) – Identifier of the menu
- **text** (*string, (optional)*) – Override automatic text of the item
- **text\_ctxt** (*string, (optional)*) – Override automatic translation context of the given text
- **translate** (*boolean, (optional)*) – Translate the given text, when UI translation is enabled
- **icon** (enum in [Icon Items](#), (optional)) – Icon, Override automatic icon of the item
- **icon\_value** (*int in [0, inf], (optional)*) – Icon Value, Override automatic icon of the item

**menu\_contents(menu)**

menu\_contents

**PARAMETERS:**

- **menu** (*string, (never None)*) – Identifier of the menu

**popover(panel, \*, text="", text\_ctxt="", translate=True, icon='NONE', icon\_value=0)**

popover

**PARAMETERS:**

- **panel** (*string, (never None)*) – Identifier of the panel
- **text** (*string, (optional)*) – Override automatic text of the item
- **text\_ctxt** (*string, (optional)*) – Override automatic translation context of the given text
- **translate** (*boolean, (optional)*) – Translate the given text, when UI translation is enabled
- **icon** (enum in [Icon Items](#), (optional)) – Icon, Override automatic icon of the item
- **icon\_value** (*int in [0, inf], (optional)*) – Icon Value, Override automatic icon of the item

**popover\_group(space\_type, region\_type, context, category)**

popover\_group

**PARAMETERS:**

- **space\_type** (enum in [Space Type Items](#)) – Space Type
- **region\_type** (enum in [Region Type Items](#)) – Region Type
- **context** (*string, (never None)*) – panel type context
- **category** (*string, (never None)*) – panel type category

**separator(\*, factor=1.0, type='AUTO')**

Item. Inserts empty space into the layout between items.

**PARAMETERS:**

- **factor** (*float in [0, inf], (optional)*) – Percentage, Percentage of width to space (leave unset for default space)
- **type** (enum in ['AUTO', 'SPACE', 'LINE'], (optional))

- **type** (enum in [ *AUTO*, *SPACE*, *LINE* ], (optional)) –

Type, The type of the separator

- *AUTO* Auto – Best guess at what type of separator is needed..
- *SPACE* Empty space – Horizontal or Vertical empty space, depending on layout direction..
- *LINE* Line – Horizontal or Vertical line, depending on layout direction..

### separator\_spacer()

Item. Inserts horizontal spacing empty space into the layout between items.

### progress(\*, text="", text\_ctxt="", translate=True, factor=0.0, type='BAR')

Progress indicator

#### PARAMETERS:

- **text** (string, (optional)) – Override automatic text of the item
- **text\_ctxt** (string, (optional)) – Override automatic translation context of the given text
- **translate** (boolean, (optional)) – Translate the given text, when UI translation is enabled
- **factor** (float in [0, 1], (optional)) – Factor, Amount of progress from 0.0f to 1.0f
- **type** (enum in ['BAR', 'RING'], (optional)) – Type, The type of progress indicator

### context\_pointer\_set(name, data)

context\_pointer\_set

#### PARAMETERS:

- **name** (string, (never None)) – Name, Name of entry in the context
- **data** (AnyType) – Pointer to put in context

### context\_string\_set(name, value)

context\_string\_set

#### PARAMETERS:

- **name** (string, (never None)) – Name, Name of entry in the context
- **value** (string, (never None)) – Value, String to put in context

### template\_header()

Inserts common Space header UI (editor type selector)

### template\_ID(data, property, \*, new="", open="", unlink="", filter='ALL', live\_icon=False, text="", text\_ctxt="", translate=True)

template\_ID

#### PARAMETERS:

- **data** (AnyType, (never None)) – Data from which to take property
- **property** (string, (never None)) – Identifier of property in data
- **new** (string, (optional, never None)) – Operator identifier to create a new ID block
- **open** (string, (optional, never None)) – Operator identifier to open a file for creating a new ID block
- **unlink** (string, (optional, never None)) – Operator identifier to unlink the ID block
- **filter** (enum in ['ALL', 'AVAILABLE'], (optional)) – Optionally limit the items which can be selected
- **live\_icon** (boolean, (optional)) – Show preview instead of fixed icon
- **text** (string, (optional)) – Override automatic text of the item
- **text\_ctxt** (string, (optional)) – Override automatic translation context of the given text
- **translate** (boolean, (optional)) – Translate the given text, when UI translation is enabled

### template\_ID\_preview(data, property, \*, new="", open="", unlink="", rows=0, cols=0, filter='ALL', hide\_buttons=False)

template\_ID\_preview

#### PARAMETERS:

- **data** (*AnyType* , (never None)) – Data from which to take property
- **property** (*string*, (never None)) – Identifier of property in data
- **new** (*string*, (optional, never None)) – Operator identifier to create a new ID block
- **open** (*string*, (optional, never None)) – Operator identifier to open a file for creating a new ID block
- **unlink** (*string*, (optional, never None)) – Operator identifier to unlink the ID block
- **rows** (*int in [0, inf]*, (optional)) – Number of thumbnail preview rows to display
- **cols** (*int in [0, inf]*, (optional)) – Number of thumbnail preview columns to display
- **filter** (*enum in ['ALL', 'AVAILABLE']*, (optional)) – Optionally limit the items which can be selected
- **hide\_buttons** (*boolean*, (optional)) – Show only list, no buttons

**template\_any\_ID(data, property, type\_property, \*, text="", text\_ctxt="", translate=True)**

template\_any\_ID

#### PARAMETERS:

- **data** (*AnyType* , (never None)) – Data from which to take property
- **property** (*string*, (never None)) – Identifier of property in data
- **type\_property** (*string*, (never None)) – Identifier of property in data giving the type of the ID-blocks to use
- **text** (*string*, (optional)) – Override automatic text of the item
- **text\_ctxt** (*string*, (optional)) – Override automatic translation context of the given text
- **translate** (*boolean*, (optional)) – Translate the given text, when UI translation is enabled

**template\_ID\_tabs(data, property, \*, new="", menu="", filter='ALL')**

template\_ID\_tabs

#### PARAMETERS:

- **data** (*AnyType* , (never None)) – Data from which to take property
- **property** (*string*, (never None)) – Identifier of property in data
- **new** (*string*, (optional, never None)) – Operator identifier to create a new ID block
- **menu** (*string*, (optional, never None)) – Context menu identifier
- **filter** (*enum in ['ALL', 'AVAILABLE']*, (optional)) – Optionally limit the items which can be selected

**template\_action(id, \*, new="", unlink="", text="", text\_ctxt="", translate=True)**

template\_action

#### PARAMETERS:

- **id** (*ID* , (never None)) – The data-block for which to select an Action
- **new** (*string*, (optional, never None)) – Operator identifier to create a new ID block
- **unlink** (*string*, (optional, never None)) – Operator identifier to unlink the ID block
- **text** (*string*, (optional)) – Override automatic text of the item
- **text\_ctxt** (*string*, (optional)) – Override automatic translation context of the given text
- **translate** (*boolean*, (optional)) – Translate the given text, when UI translation is enabled

**template\_search(data, property, search\_data, search\_property, \*, new="", unlink="", text="", text\_ctxt="", translate=True)**

template\_search

#### PARAMETERS:

- **data** (*AnyType* , (never None)) – Data from which to take property
- **property** (*string*, (never None)) – Identifier of property in data
- **search\_data** (*AnyType* , (never None)) – Data from which to take collection to search in
- **search\_property** (*string*, (never None)) – Identifier of search collection property
- **new** (*string*, (optional, never None)) – Operator identifier to create a new item for the collection

- **unlink** (*string, (optional, never None)*) – Operator identifier to unlink or delete the active item from the collection
- **text** (*string, (optional)*) – Override automatic text of the item
- **text\_ctxt** (*string, (optional)*) – Override automatic translation context of the given text
- **translate** (*boolean, (optional)*) – Translate the given text, when UI translation is enabled

**template\_search\_preview(data, property, search\_data, search\_property, \*, new="", unlink="", text="", text\_ctxt="", translate=True, rows=0, cols=0)**

template\_search\_preview

#### PARAMETERS:

- **data** (*AnyType, (never None)*) – Data from which to take property
- **property** (*string, (never None)*) – Identifier of property in data
- **search\_data** (*AnyType, (never None)*) – Data from which to take collection to search in
- **search\_property** (*string, (never None)*) – Identifier of search collection property
- **new** (*string, (optional, never None)*) – Operator identifier to create a new item for the collection
- **unlink** (*string, (optional, never None)*) – Operator identifier to unlink or delete the active item from the collection
- **text** (*string, (optional)*) – Override automatic text of the item
- **text\_ctxt** (*string, (optional)*) – Override automatic translation context of the given text
- **translate** (*boolean, (optional)*) – Translate the given text, when UI translation is enabled
- **rows** (*int in [0, inf], (optional)*) – Number of thumbnail preview rows to display
- **cols** (*int in [0, inf], (optional)*) – Number of thumbnail preview columns to display

**template\_path\_builder(data, property, root, \*, text="", text\_ctxt="", translate=True)**

template\_path\_builder

#### PARAMETERS:

- **data** (*AnyType, (never None)*) – Data from which to take property
- **property** (*string, (never None)*) – Identifier of property in data
- **root** (*ID*) – ID-block from which path is evaluated from
- **text** (*string, (optional)*) – Override automatic text of the item
- **text\_ctxt** (*string, (optional)*) – Override automatic translation context of the given text
- **translate** (*boolean, (optional)*) – Translate the given text, when UI translation is enabled

**template\_modifiers()**

Generates the UI layout for the modifier stack

**template\_collection\_exporters()**

Generates the UI layout for collection exporters

**template\_constraints(\*, use\_bone\_constraints=True)**

Generates the panels for the constraint stack

#### PARAMETERS:

- **use\_bone\_constraints** (*boolean, (optional)*) – Add panels for bone constraints instead of object constraints

**template\_shaderfx()**

Generates the panels for the shader effect stack

**template\_greasepencil\_color(data, property, \*, rows=0, cols=0, scale=1.0, filter='ALL')**

template\_greasepencil\_color

#### PARAMETERS:

- **data** (*AnyType, (never None)*) – Data from which to take property
- **property** (*string, (never None)*) – Identifier of property in data

- **property** (*string, (never None)*) – Identifier of property in data
- **rows** (*int in [0, inf], (optional)*) – Number of thumbnail preview rows to display
- **cols** (*int in [0, inf], (optional)*) – Number of thumbnail preview columns to display
- **scale** (*float in [0.1, 1.5], (optional)*) – Scale of the image thumbnails
- **filter** (*enum in ['ALL', 'AVAILABLE'], (optional)*) – Optionally limit the items which can be selected

#### **template\_constraint\_header(data)**

Generates the header for constraint panels

##### **PARAMETERS:**

**data** (*Constraint*, (never None)) – Constraint data

#### **template\_preview(id, \*, show\_buttons=True, parent=None, slot=None, preview\_id='')**

Item. A preview window for materials, textures, lights or worlds.

##### **PARAMETERS:**

- **id** (*ID*) – ID data-block
- **show\_buttons** (*boolean, (optional)*) – Show preview buttons?
- **parent** (*ID*, (optional)) – ID data-block
- **slot** (*TextureSlot*, (optional)) – Texture slot
- **preview\_id** (*string, (optional, never None)*) – Identifier of this preview widget, if not set the ID type will be used (i.e. all previews of materials without explicit ID will have the same size...).

#### **template\_curve\_mapping(data, property, \*, type='NONE', levels=False, brush=False, use\_negative\_slope=False, show\_tone=False)**

Item. A curve mapping widget used for e.g falloff curves for lights.

##### **PARAMETERS:**

- **data** (*AnyType*, (never None)) – Data from which to take property
- **property** (*string, (never None)*) – Identifier of property in data
- **type** (*enum in ['NONE', 'VECTOR', 'COLOR', 'HUE'], (optional)*) – Type, Type of curves to display
- **levels** (*boolean, (optional)*) – Show black/white levels
- **brush** (*boolean, (optional)*) – Show brush options
- **use\_negative\_slope** (*boolean, (optional)*) – Use a negative slope by default
- **show\_tone** (*boolean, (optional)*) – Show tone options

#### **template\_curveprofile(data, property)**

A profile path editor used for custom profiles

##### **PARAMETERS:**

- **data** (*AnyType*, (never None)) – Data from which to take property
- **property** (*string, (never None)*) – Identifier of property in data

#### **template\_color\_ramp(data, property, \*, expand=False)**

Item. A color ramp widget.

##### **PARAMETERS:**

- **data** (*AnyType*, (never None)) – Data from which to take property
- **property** (*string, (never None)*) – Identifier of property in data
- **expand** (*boolean, (optional)*) – Expand button to show more detail

#### **template\_icon(icon\_value, \*, scale=1.0)**

Display a large icon

##### **PARAMETERS:**

- **icon\_value** (*int in [0, inf]*) – Icon to display
- **scale** (*float in [1, 100], (optional)*) – Scale, Scale the icon size (by the button size)

**template\_icon\_view(data, property, \*, show\_labels=False, scale=6.0, scale\_popup=5.0)**

Enum Large widget showing Icon previews.

**PARAMETERS:**

- **data** (*AnyType*, (never None)) – Data from which to take property
- **property** (*string, (never None)*) – Identifier of property in data
- **show\_labels** (*boolean, (optional)*) – Show enum label in preview buttons
- **scale** (*float in [1, 100], (optional)*) – UI Units, Scale the button icon size (by the button size)
- **scale\_popup** (*float in [1, 100], (optional)*) – Scale, Scale the popup icon size (by the button size)

**template\_histogram(data, property)**

Item A histogramm widget to analyze imaga data.

**PARAMETERS:**

- **data** (*AnyType*, (never None)) – Data from which to take property
- **property** (*string, (never None)*) – Identifier of property in data

**template\_waveform(data, property)**

Item A waveform widget to analyze imaga data.

**PARAMETERS:**

- **data** (*AnyType*, (never None)) – Data from which to take property
- **property** (*string, (never None)*) – Identifier of property in data

**template\_vectorscope(data, property)**

Item A vectorscope widget to analyze imaga data.

**PARAMETERS:**

- **data** (*AnyType*, (never None)) – Data from which to take property
- **property** (*string, (never None)*) – Identifier of property in data

**template\_layers(data, property, used\_layers\_data, used\_layers\_property, active\_layer)**

template\_layers

**PARAMETERS:**

- **data** (*AnyType*, (never None)) – Data from which to take property
- **property** (*string, (never None)*) – Identifier of property in data
- **used\_layers\_data** (*AnyType*) – Data from which to take property
- **used\_layers\_property** (*string, (never None)*) – Identifier of property in data
- **active\_layer** (*int in [0, inf]*) – Active Layer

**template\_color\_picker(data, property, \*, value\_slider=False, lock=False, lock\_luminosity=False, cubic=False)**

Item A color wheel widget to pick colors.

**PARAMETERS:**

- **data** (*AnyType*, (never None)) – Data from which to take property
- **property** (*string, (never None)*) – Identifier of property in data
- **value\_slider** (*boolean, (optional)*) – Display the value slider to the right of the color wheel
- **lock** (*boolean, (optional)*) – Lock the color wheel display to value 1.0 regardless of actual color
- **lock\_luminosity** (*boolean, (optional)*) – Keep the color at its original vector length
- **cubic** (*boolean, (optional)*) – Cubic saturation for picking values close to white

**template\_palette(data, property, \*, color=False)**

Item. A palette used to pick colors.

**PARAMETERS:**

- **data** (*AnyType*, (never None)) – Data from which to take property
- **property** (*string*, (never None)) – Identifier of property in data
- **color** (*boolean*, (optional)) – Display the colors as colors or values

**template\_image\_layers(image, image\_user)**

template\_image\_layers

**template\_image(data, property, image\_user, \*, compact=False, multiview=False)**

Item(s). User interface for selecting images and their source paths.

**PARAMETERS:**

- **data** (*AnyType*, (never None)) – Data from which to take property
- **property** (*string*, (never None)) – Identifier of property in data
- **compact** (*boolean*, (optional)) – Use more compact layout
- **multiview** (*boolean*, (optional)) – Expose Multi-View options

**template\_image\_settings(image\_settings, \*, color\_management=False)**

User interface for setting image format options

**PARAMETERS:**

- **color\_management** (*boolean*, (optional)) – Show color management settings

**template\_image\_stereo\_3d(stereo\_3d\_format)**

User interface for setting image stereo 3d options

**template\_image\_views(image\_settings)**

User interface for setting image views output options

**template\_movieclip(data, property, \*, compact=False)**

Item(s). User interface for selecting movie clips and their source paths.

**PARAMETERS:**

- **data** (*AnyType*, (never None)) – Data from which to take property
- **property** (*string*, (never None)) – Identifier of property in data
- **compact** (*boolean*, (optional)) – Use more compact layout

**template\_track(data, property)**

Item. A movie-track widget to preview tracking image.

**PARAMETERS:**

- **data** (*AnyType*, (never None)) – Data from which to take property
- **property** (*string*, (never None)) – Identifier of property in data

**template\_marker(data, property, clip\_user, track, \*, compact=False)**

Item. A widget to control single marker settings.

**PARAMETERS:**

- **data** (*AnyType*, (never None)) – Data from which to take property
- **property** (*string*, (never None)) – Identifier of property in data
- **compact** (*boolean*, (optional)) – Use more compact layout



## **template\_movieclip\_information(data, property, clip\_user)**

Item. Movie clip information data.

### **PARAMETERS:**

- **data** ([AnyType](#), (never None)) – Data from which to take property
- **property** (*string, (never None)*) – Identifier of property in data

## **template\_list(listtype\_name, list\_id, dataptr, propname, active\_dataptr, active\_propname, \*, item\_dyntip\_propname="", rows=5, maxrows=5, type='DEFAULT', columns=9, sort\_reverse=False, sort\_lock=False)**

Item. A list widget to display data, e.g. vertexgroups.

### **PARAMETERS:**

- **listtype\_name** (*string, (never None)*) – Identifier of the list type to use
- **list\_id** (*string, (never None)*) – Identifier of this list widget. Necessary to tell apart different list widgets. Mandatory when using default “UI\_UL\_list” class. If this not an empty string, the uilist gets a custom ID, otherwise it takes the name of the class used to define the uilist (for example, if the class name is “OBJECT\_UL\_vgroups”, and list\_id is not set by the script, then bl\_idname = “OBJECT\_UL\_vgroups”)
- **dataptr** ([AnyType](#)) – Data from which to take the Collection property
- **propname** (*string, (never None)*) – Identifier of the Collection property in data
- **active\_dataptr** ([AnyType](#), (never None)) – Data from which to take the integer property, index of the active item
- **active\_propname** (*string, (never None)*) – Identifier of the integer property in active\_data, index of the active item
- **item\_dyntip\_propname** (*string, (optional, never None)*) – Identifier of a string property in items, to use as tooltip content
- **rows** (*int in [0, inf], (optional)*) – Default and minimum number of rows to display
- **maxrows** (*int in [0, inf], (optional)*) – Default maximum number of rows to display
- **type** (enum in [Uilist Layout Type Items](#), (optional)) – Type, Type of layout to use
- **columns** (*int in [0, inf], (optional)*) – Number of items to display per row, for GRID layout
- **sort\_reverse** (*boolean, (optional)*) – Display items in reverse order by default
- **sort\_lock** (*boolean, (optional)*) – Lock display order to default value

## **template\_running\_jobs()**

template\_running\_jobs

## **template\_operator\_search()**

template\_operator\_search

## **template\_menu\_search()**

template\_menu\_search

## **template\_header\_3D\_mode()**

## **template\_edit\_mode\_selection()**

Inserts common 3DView Edit modes header UI (selector for selection mode)

## **template\_reports\_banner()**

template\_reports\_banner

## **template\_input\_status()**

template\_input\_status

## **template\_status\_info()**

template\_status\_info

## **template\_node\_link(ntree, node, socket)**

template node link



**template\_node\_view(ntree, node, socket)**

template\_node\_view

**template\_node\_asset\_menu\_items(\*, catalog\_path=)**

template\_node\_asset\_menu\_items

**template\_modifier\_asset\_menu\_items(\*, catalog\_path=)**

template\_modifier\_asset\_menu\_items

**template\_node\_operator\_asset\_menu\_items(\*, catalog\_path=)**

template\_node\_operator\_asset\_menu\_items

**template\_node\_operator\_asset\_root\_items()**

template\_node\_operator\_asset\_root\_items

**template\_texture\_user()**

template\_texture\_user

**template\_keymap\_item\_properties(item)**

template\_keymap\_item\_properties

**template\_component\_menu(data, property, \*, name=)**

Item. Display expanded property in a popup menu

**PARAMETERS:**

- **data** ([AnyType](#)) – Data from which to take property
- **property** (*string, (never None)*) – Identifier of property in data

**template\_colorspace\_settings(data, property)**

Item. A widget to control input color space settings.

**PARAMETERS:**

- **data** ([AnyType](#), (never None)) – Data from which to take property
- **property** (*string, (never None)*) – Identifier of property in data

**template\_colormanged\_view\_settings(data, property)**

Item. A widget to control color managed view settings.

**PARAMETERS:**

- **data** ([AnyType](#), (never None)) – Data from which to take property
- **property** (*string, (never None)*) – Identifier of property in data

**template\_node\_socket(\*, color=(0.0, 0.0, 0.0, 1.0))**

Node Socket Icon

**PARAMETERS:**

**color** (*float array of 4 items in [0, 1], (optional)*) – Color

**template\_cache\_file(data, property)**

Item(s). User interface for selecting cache files and their source paths

**PARAMETERS:**

- **data** ([AnyType](#), (never None)) – Data from which to take property
- **property** (*string, (never None)*) – Identifier of property in data

### **template\_cache\_file\_velocity(data, property)**

Show cache files velocity properties

#### **PARAMETERS:**

- **data** (*AnyType*, (never None)) – Data from which to take property
- **property** (*string*, (never None)) – Identifier of property in data

### **template\_cache\_file\_procedural(data, property)**

Show cache files render procedural properties

#### **PARAMETERS:**

- **data** (*AnyType*, (never None)) – Data from which to take property
- **property** (*string*, (never None)) – Identifier of property in data

### **template\_cache\_file\_time\_settings(data, property)**

Show cache files time settings

#### **PARAMETERS:**

- **data** (*AnyType*, (never None)) – Data from which to take property
- **property** (*string*, (never None)) – Identifier of property in data

### **template\_cache\_file\_layers(data, property)**

Show cache files override layers properties

#### **PARAMETERS:**

- **data** (*AnyType*, (never None)) – Data from which to take property
- **property** (*string*, (never None)) – Identifier of property in data

### **template\_recent\_files(\*, rows=5)**

Show list of recently saved .blend files

#### **PARAMETERS:**

**rows** (*int* in [1, inf], (optional)) – Maximum number of items to show

#### **RETURNS:**

Number of items drawn

#### **RETURN TYPE:**

int in [0, inf]

### **template\_file\_select\_path(params)**

Item. A text button to set the active file browser path.

### **template\_event\_from\_keymap\_item(item, \*, text="", text\_ctxt="", translate=True)**

Display keymap item as icons/text

#### **PARAMETERS:**

- **item** (*KeyMapItem*, (never None)) – Item
- **text** (*string*, (optional)) – Override automatic text of the item
- **text\_ctxt** (*string*, (optional)) – Override automatic translation context of the given text
- **translate** (*boolean*, (optional)) – Translate the given text, when UI translation is enabled

### **template\_asset\_view(list\_id, asset\_library\_dataptr, asset\_library\_propname, assets\_dataptr, assets\_propname, active\_dataptr, active\_propname, \*, filter\_id\_types={}, display\_options={}, activate\_operator="", drag\_operator=")**

Item. A scrollable list of assets in a grid view

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#### PARAMETERS:

- **list\_id** (*string, (never None)*) – Identifier of this asset view. Necessary to tell apart different asset views and to identify an asset view re from a .blend
- **asset\_library\_dataptr** (*AnyType, (never None)*) – Data from which to take the active asset library property
- **asset\_library\_propname** (*string, (never None)*) – Identifier of the asset library property
- **assets\_dataptr** (*AnyType, (never None)*) – Data from which to take the asset list property
- **assets\_propname** (*string, (never None)*) – Identifier of the asset list property
- **active\_dataptr** (*AnyType, (never None)*) – Data from which to take the integer property, index of the active item
- **active\_propname** (*string, (never None)*) – Identifier of the integer property in active\_data, index of the active item
- **filter\_id\_types** (*enum set in {}, (optional)*) – filter\_id\_types
- **display\_options** (*enum set in {'NO\_NAMES', 'NO\_FILTER', 'NO\_LIBRARY'}, (optional)*) –  
Displaying options for the asset view
  - **NO\_NAMES** Do not display the name of each asset underneath preview images.
  - **NO\_FILTER** Do not display buttons for filtering the available assets.
  - **NO\_LIBRARY** Do not display buttons to choose or refresh an asset library.
- **activate\_operator** (*string, (optional, never None)*) – Name of a custom operator to invoke when activating an item
- **drag\_operator** (*string, (optional, never None)*) – Name of a custom operator to invoke when starting to drag an item. Never invoked together with the `active_operator` (if set), it's either the drag or the activate one

#### RETURNS:

*activate\_operator\_properties*, Operator properties to fill in for the custom activate operator passed to the template,  
`OperatorProperties`

*drag\_operator\_properties*, Operator properties to fill in for the custom drag operator passed to the template,  
`OperatorProperties`

#### RETURN TYPE:

(`OperatorProperties`, `OperatorProperties`)

#### **template\_light\_linking\_collection(context\_layout, data, property)**

Visualization of a content of a light linking collection

#### PARAMETERS:

- **context\_layout** (*UILayout, (never None)*) – Layout to set active list element as context properties
- **data** (*AnyType, (never None)*) – Data from which to take property
- **property** (*string, (never None)*) – Identifier of property in data

#### **template\_bone\_collection\_tree()**

Show bone collections tree

#### **template\_grease\_pencil\_layer\_tree()**

View of the active Grease Pencil layer tree

#### **template\_node\_tree\_interface(interface)**

Show a node tree interface

#### PARAMETERS:

**interface** (*NodeTreeInterface, (never None)*) – Node Tree Interface, Interface of a node tree to display

#### **template\_node\_inputs(node)**

Show a node settings and input socket values

#### PARAMETERS:

**node** (*Node, (never None)*) – Node, Display inputs of this node

**template\_asset\_shelf\_popover(asset\_shelf, \*, name="", icon='NONE', icon\_value=0)**

Create a button to open an asset shelf in a popover

**PARAMETERS:**

- **asset\_shelf** (*string, (never None)*) – Identifier of the asset shelf to display ( `bl_idname` )
- **name** (*string, (optional)*) – Optional name to indicate the active asset
- **icon** (enum in [Icon Items](#), (optional)) – Icon, Override automatic icon of the item
- **icon\_value** (*int in [0, inf], (optional)*) – Icon Value, Override automatic icon of the item

**template\_popup\_confirm(operator, \*, text="", text\_ctxt="", translate=True, icon='NONE', cancel\_text="", cancel\_default=False)**

Add confirm & cancel buttons into a popup which will close the popup when pressed

**PARAMETERS:**

- **operator** (*string, (never None)*) – Identifier of the operator
- **text** (*string, (optional)*) – Override automatic text of the item
- **text\_ctxt** (*string, (optional)*) – Override automatic translation context of the given text
- **translate** (*boolean, (optional)*) – Translate the given text, when UI translation is enabled
- **icon** (enum in [Icon Items](#), (optional)) – Icon, Override automatic icon of the item
- **cancel\_text** (*string, (optional, never None)*) – Optional text to use for the cancel, not shown when an empty string
- **cancel\_default** (*boolean, (optional)*) – Cancel button by default

**RETURNS:**

Operator properties to fill in

**RETURN TYPE:**

[OperatorProperties](#)

**classmethod bl\_ma\_get\_subclass(id, default=None)**

**PARAMETERS:**

**id** (*str*) – The RNA type identifier.

**RETURNS:**

The RNA type or default when not found.

**RETURN TYPE:**

[bpy.types.Struct](#) subclass

**classmethod bl\_ma\_get\_subclass\_py(id, default=None)**

**PARAMETERS:**

**id** (*str*) – The RNA type identifier.

**RETURNS:**

The class or default when not found.

**RETURN TYPE:**

type

**introspect()**

Return a dictionary containing a textual representation of the UI layout.

## Inherited Properties

- [bpy\\_struct.id\\_data](#)

## Inherited Functions

## Implemented Functions

- `bpy_struct.as_pointer`
- `bpy_struct.driver_add`
- `bpy_struct.driver_remove`
- `bpy_struct.get`
- `bpy_struct.id_properties_clear`
- `bpy_struct.id_properties_ensure`
- `bpy_struct.id_properties_ui`
- `bpy_struct.is_property_hidden`
- `bpy_struct.is_property_overridable_library`
- `bpy_struct.is_property_readonly`
- `bpy_struct.is_property_set`
- `bpy_struct.items`
- `bpy_struct.keyframe_delete`
- `bpy_struct.keyframe_insert`
- `bpy_struct.keys`
- `bpy_struct.path_from_id`
- `bpy_struct.path_resolve`
- `bpy_struct.pop`
- `bpy_struct.property_overridable_library_set`
- `bpy_struct.property_unset`
- `bpy_struct.type_recast`
- `bpy_struct.values`

## References

- `AssetShelf.draw_context_menu`
- `Header.layout`
- `Menu.layout`
- `Node.draw_buttons`
- `Node.draw_buttons_ext`
- `NodeInternal.draw_buttons`
- `NodeInternal.draw_buttons_ext`
- `NodeSocket.draw`
- `NodeSocketStandard.draw`
- `NodeTreeInterfaceSocket.draw`
- `NodeTreeInterfaceSocketBool.draw`
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- `NodeTreeInterfaceSocketColor.draw`
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- `NodeTreeInterfaceSocketVectorTranslate.draw`
- `NodeTreeInterfaceSocketVectorVelocity.draw`
- `NodeTreeInterfaceSocketVectorXYZ.draw`
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- `UILayout.column_flow`
- `UILayout.grid_flow`
- `UILayout.menu_pie`
- `UILayout.panel`
- `UILayout.panel`
- `UILayout.panel_prop`
- `UILayout.panel_prop`
- `UILayout.row`
- `UILayout.split`
- `UILayout.template_light_linking_collector.draw`
- `UILayout.draw_filter`
- `UILayout.draw_item`
- `UIPieMenu.layout`
- `UIPopover.layout`

- [NodeTreeInterfaceSocketMenu.draw](#)

- [UIPopupMenu.layout](#)

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