```
- m := optionmenu(f, "dog cat");
- m.done();
T
- m
F
-
```

---

---

### 1.4.25 pixelrange - Tool

**Package display**
**Module widgets**

*Widget to handle a pixel range specification*
*include "pixelrange.g"*

**Constructors**

| | |
|---|---|
| *pixelrange* | *Construct a pixelrange widget* |

**Functions**

| | |
|---|---|
| *disableallbutton* | *Disable the 'all' radio button* |
| *disabled* | *Disable or enable the widget* |
| *done* | *Destroy ourselves* |
| *enableallbutton* | *Enable the 'all' radio button* |
| *getradiovalue* | *Get the value of the radio buttons* |
| *getslidervalues* | *Get the values of the sliders* |
| *setradiovalue* | *Set the state of a specific radio button* |
| *setrange* | *Set new values for the sliders* |

**Description**

*This Tk widget creates three radio buttons which the user uses to indicate whether they wish to select pixels via an inclusion range (button 'include'), an exclusion range (button 'exclude') or select all (button 'all') pixels. For the inclusion/exclusion ranges, two sliders with entry boxes to type into are provided for the user to set the range. The sliders are set to minimum and maximum and deactivated if the user selects the 'all' radio button.*
*Currently, this widget is rather specialized. It will probably be made more generic at some point.*

**pixelrange - Constructor**

| | |
|---|---|
| **Package** | **display** |
| **Module** | **widgets** |
| **Tool** | **pixelrange** |

*Construct a pixelrange widget*

**Synopsis**

*pixelrange(parent, min, max, labels, widgetset)*

**Arguments**

| | |
|---|---|
| *parent* | *Parent of the menu*<br>*Allowed: Tk frame*<br>*Default: F* |
| *min* | *The minimum value for the sliders*<br>*Allowed: Float*<br>*Default: 0* |
| *max* | *The maximum value for the sliders*<br>*Allowed: Float*<br>*Default: 1* |
| *labels* | *The slider labels*<br>*Allowed: String*<br>*Default: "include exclude all"* |
| *widgetset* | *The widget server to use*<br>*Allowed: widgetserver tool*<br>*Default: dws* |

**Returns**

*Agent*

**Description**

*Construct the widget. The resolution of the sliders is 1% of the range.*
*The argument* `labels` *gives the labels for each slider. It may be that the context of your use of this widget requires names different from the default.*

**Example**

```
- include 'pixelrange.g'
- include 'widgetserver.g'
- f := dws.frame();
- r := pixelrange(parent=f, min=-100, max=20, widgetset=dws);
```

---

### pixelrange.disabled - Function

| | |
|---|---|
| **Package** | **display** |
| **Module** | **widgets** |
| **Tool** | **pixelrange** |

*Disable or enable the widget*

**Synopsis**
*disabled(which, sliders)*

**Arguments**

| | |
|---|---|
| *which* | *disable the radio buttons*<br>*Allowed: T, F, or unset*<br>*Default: unset* |
| *sliders* | *disable the sliders*<br>*Allowed: T, F, or unset*<br>*Default: unset* |

**Returns**
*T*

**Description**

*This function disables or enables the widget (does not need matching pair). You can disable/enable the radio buttons part of the widget and the sliders part of the widget independently. If either* `which` *or* `sliders` *is unset, then their state is not affected. You must set these arguments to T or F to disable or enable, respectively.*

---

### pixelrange.disableallbutton - Function

| | |
|---|---|
| **Package** | **display** |
| **Module** | **widgets** |
| **Tool** | **pixelrange** |

*Disable the 'all' radio button*

**Synopsis**
*disableallbutton()*

**Returns**
*T*

**Description**

*This function specifically disables only the 'all' radio button*

---

### pixelrange.done - Function

| | |
|---|---|
| **Package** | **display** |
| **Module** | **widgets** |
| **Tool** | **pixelrange** |

*Destroy ourselves*

**Synopsis**
*done()*

**Returns**
*Bool*

**Description**

*This tool function destroys the widget.*

---

### pixelrange.enableallbutton - Function

| | |
|---|---|
| **Package** | **display** |
| **Module** | **widgets** |
| **Tool** | **pixelrange** |

*Enable the 'all' radio button*

**Synopsis**
*enableallbutton()*

**Returns**
*T*

**Description**

*This function specifically enables only the 'all' radio button.*

---

### pixelrange.getslidervalues - Function

| | |
|---|---|
| **Package** | **display** |
| **Module** | **widgets** |
| **Tool** | **pixelrange** |

*Get the values of the sliders*

**Synopsis**
*getslidervalues()*

**Returns**
*Vector of length 2*

**Description**

*This function gets the current values of the sliders.*

---

### pixelrange.getradiovalue - Function

| | |
|---|---|
| **Package** | **display** |
| **Module** | **widgets** |
| **Tool** | **pixelrange** |

*Get the value of the radio buttons*

**Synopsis**
*getradiovalue()*

**Returns**
*Record*

**Description**

*This function gets the current value of the radio buttons. If one of the buttons is selected, it returns a record with two fields: 'name' and 'index' containing the name of the button and its index (1, 2 or 3 for 'include', 'exclude' and 'all'). If no buttons are selected, it returns an empty record.*

---

### pixelrange.setrange - Function

| | |
|---|---|
| **Package** | **display** |
| **Module** | **widgets** |
| **Tool** | **pixelrange** |

*Set new values for the sliders*

**Synopsis**
*setrange(min, max)*

**Arguments**

| | |
|---|---|
| *min* | *The minimum value for the sliders*<br>*Allowed: Float* |
| *max* | *The maximum value for the sliders*<br>*Allowed: Float* |

**Returns**
*T*

**Description**