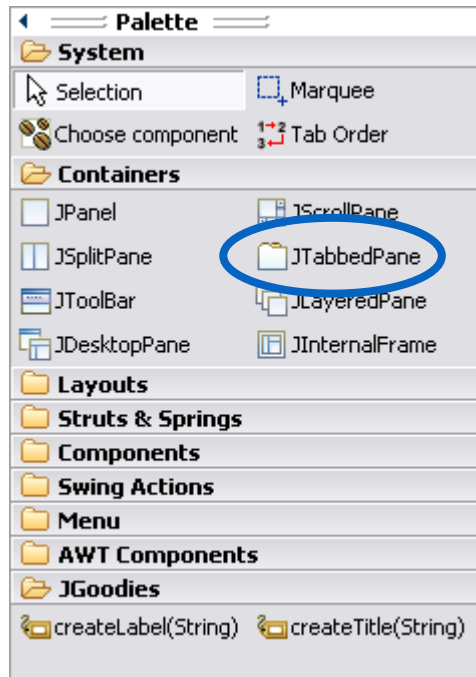# Theory pills
Lab 11

Main types of containers

- Frame (JFrame)

- Dialog (JDialog)

- Panel (JPanel)

- Scroll Panel (JScrollPane)

- **Tabbed panel (JTabbedPane)**

- Tool bar (JToolBar)

Tabbed Pane (JTabbedPane)

▸ Container that can containe serveral components (generally panels) sharing the same space.

▸ The user choses the component he/she wants to see selecting the corresponding tab.

▸ Tabs generally contains text, that they can also conteins images or both.
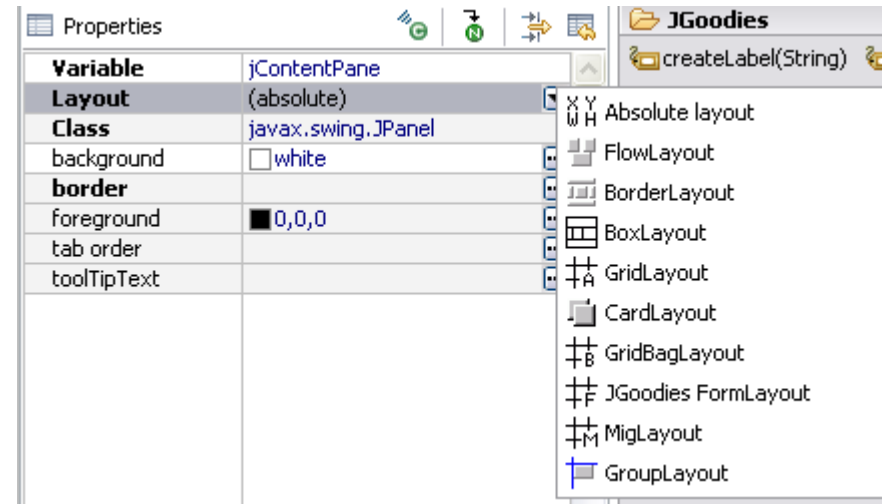
Tabbed Pane (II)

- Tabs can be located on the top (default), or in any other border of the panel *(tabPlacement)*

- If they do not fit in one single row, new row will be automatically created. Multiple rows is not advisable, so we should try to avoid that reorganizing the contents.

- Tabs **must have mnemonics**

- Very usual in preferences dialogs where many information must be shown in a small space.

- Methods:

  - addTab // Adds a tab to the pane
  - getSelectedIndex // Returns the index of the currently selected tab.
  - getSelectedComponent // returns the component currently selected inside the pane
  - setToolTipTextAt (int, String) // Links a tooltip to the tab indexed by "int".
  - setIconAt (int, Icon) // Adds an icon to he tab indexed by "int"
  - setTitleAt (int,String) // Adds a title to the tab indexed by "int"
  - setEnabledAt (int,boolean) // Enables or disables the tab.

Types of Layouts

- The most popular are…
  - FlowLayout
  - BorderLayout
  - **CardLayout**
  - GridLayout
  - BoxLayout
  - GridBagLayout
- By default…
  - JFrame, JDialog → BorderLayout
  - JPanel, JScrollPane → FlowLayout

CardLayout

- It shows just one of the many components contained in the container.

- Components are included in a sequence as they are added to the container

- Components will fill all the available space in the container

- Very useful when we need panels that modify their content in runtime (after, for example, selecting a value in a combobox).

- Methods to select the component to be shown:
  - first(), last(), next(), previous(), show()

Cardlayout