

# Menus en Swing - JMenuBar

```
public class MenuBarExample extends JFrame implements ... {
```

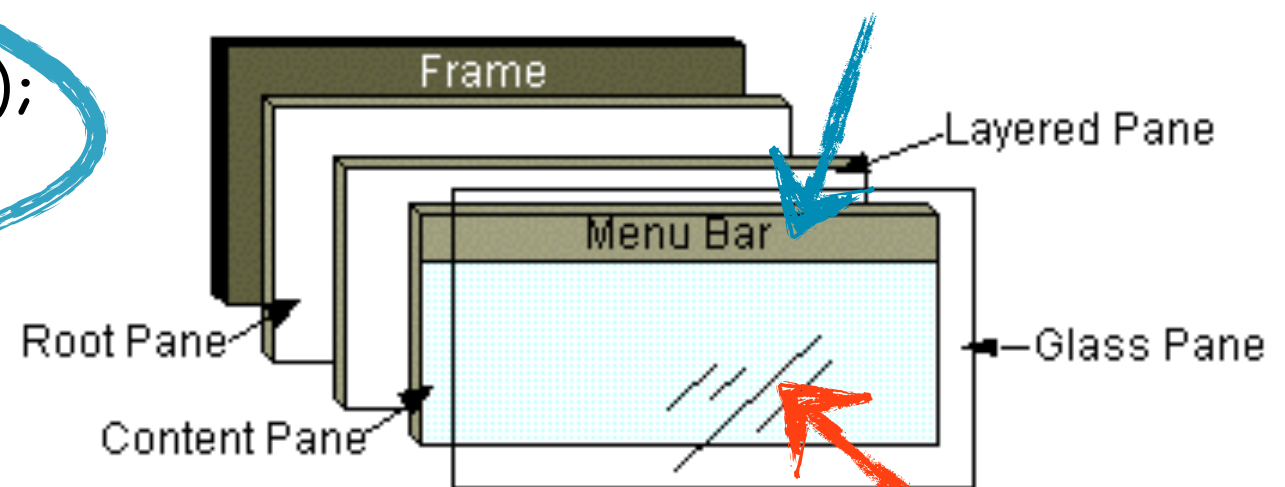
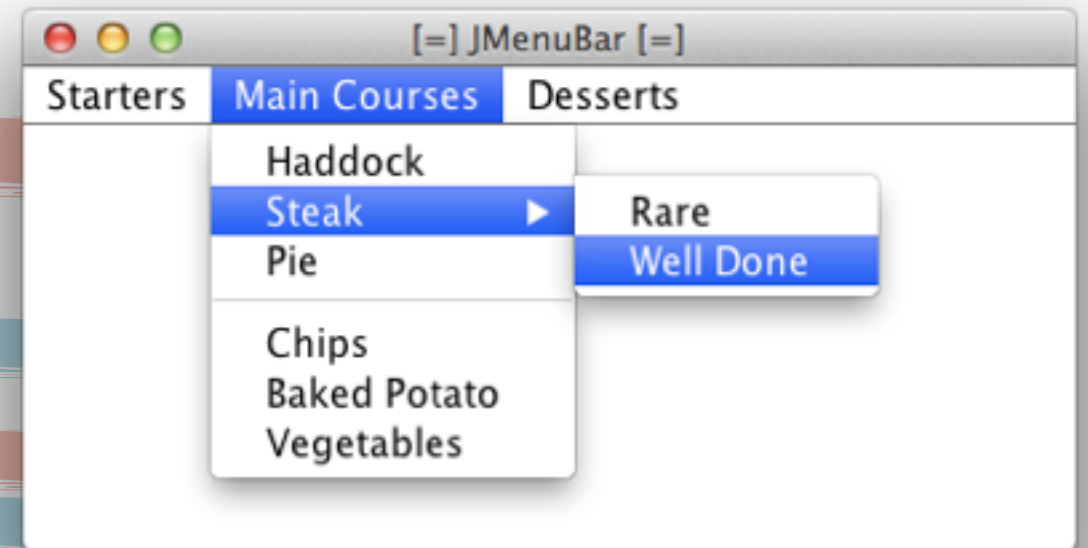
```
...  
private void initGUI() {  
    JPanel mainPanel = new JPanel();  
    mainPanel.setBackground(Color.white);  
    ...
```

```
    JMenuBar menu = createMenuBar();
```

```
    this.setContentPane(mainPanel);  
    this.setJMenuBar(menu);
```

```
    this.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);  
    this.pack();  
    this.setVisible(true);  
}
```

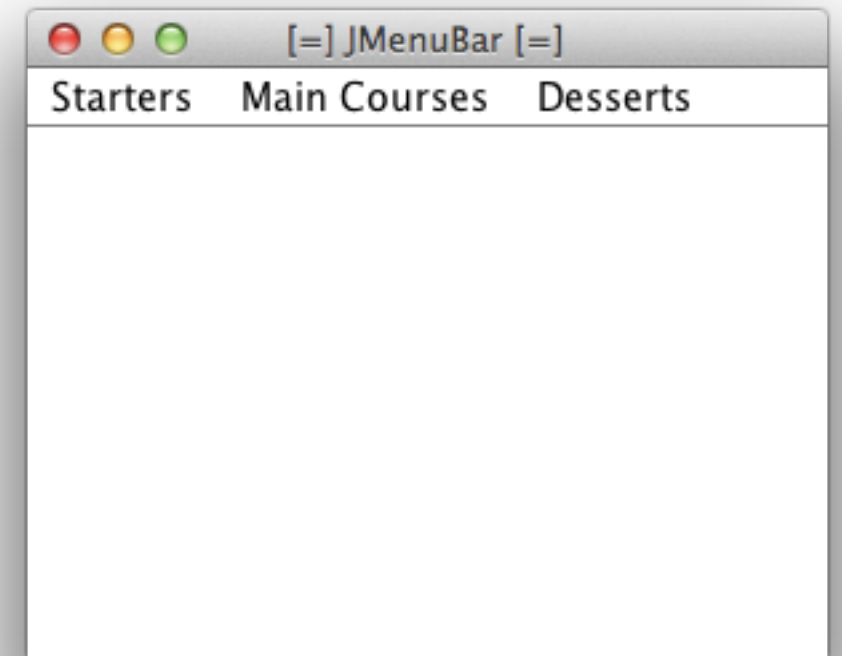
```
public JMenuBar createMenuBar() {  
    JMenuBar menuBar = new JMenuBar();  
    // add item to the menu  
    ...  
    return menuBar;  
}
```



see: [examples.swing.misc.MenuBarExample](#)

# Menus en Swing - JMenuBar

```
public JMenuBar createMenuBar() {  
  
    JMenuBar menuBar = new JMenuBar();  
  
    JMenu starter = new JMenu("Starters");  
    JMenu maincourse = new JMenu("Main Courses");  
    JMenu desserts = new JMenu("Desserts");  
  
    menuBar.add(starter);  
    menuBar.add(maincourse);  
    menuBar.add(desserts);  
  
    // starters code  
    ...  
    // maincourse code  
    ...  
    // dessert code  
    ...  
  
    return JMenuBar;  
}
```



see: [examples.swing.misc.MenuBarExample](#)

# Menus en Swing - JMenuBar

```
public JMenuBar createMenuBar() {
```

```
    JMenuBar menuBar = new JMenuBar();
```

```
    JMenu starter = new JMenu("Starters");
```

```
    JMenu maincourse = new JMenu("Main Courses");
```

```
    JMenu desserts = new JMenu("Desserts");
```

```
    menuBar.add(starter);
```

```
    menuBar.add(maincourse);
```

```
    menuBar.add(desserts);
```

```
    // starters code
```

```
    ...
```

```
    // maincourse code
```

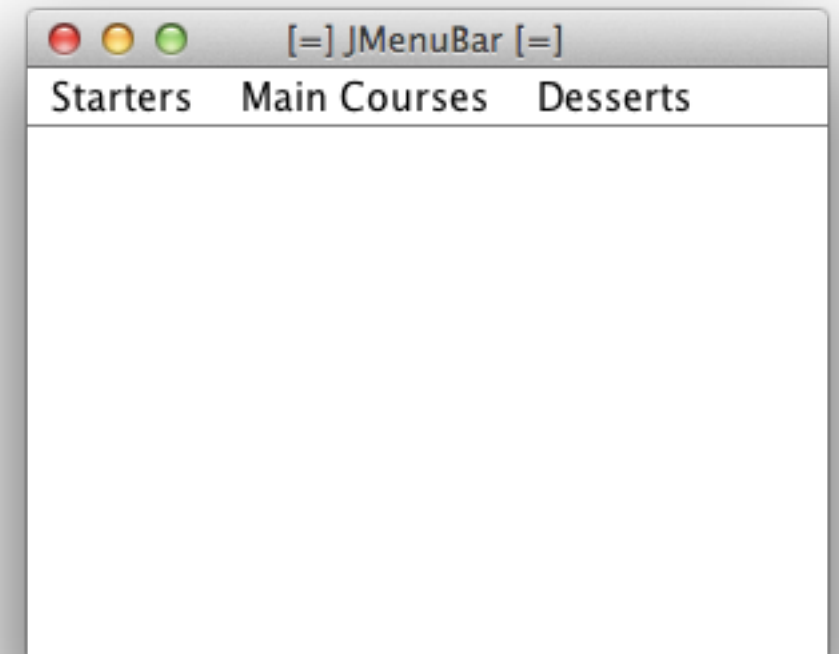
```
    ...
```

```
    // dessert code
```

```
    ...
```

```
    return JMenuBar;
```

```
}
```



see: [examples.swing.misc.MenuBarExample](#)

# Menus en Swing - JMenuBar

```
public JMenuBar createMenuBar() {
```

```
    JMenuBar menuBar = new JMenuBar();
```

```
    JMenu starter = new JMenu("Starters");
```

```
    JMenu maincourse = new JMenu("Main Courses");
```

```
    JMenu desserts = new JMenu("Desserts");
```

```
    menuBar.add(starter);  
    menuBar.add(maincourse);  
    menuBar.add(desserts);
```

```
    // starters code
```

```
    ...
```

```
    // maincourse code
```

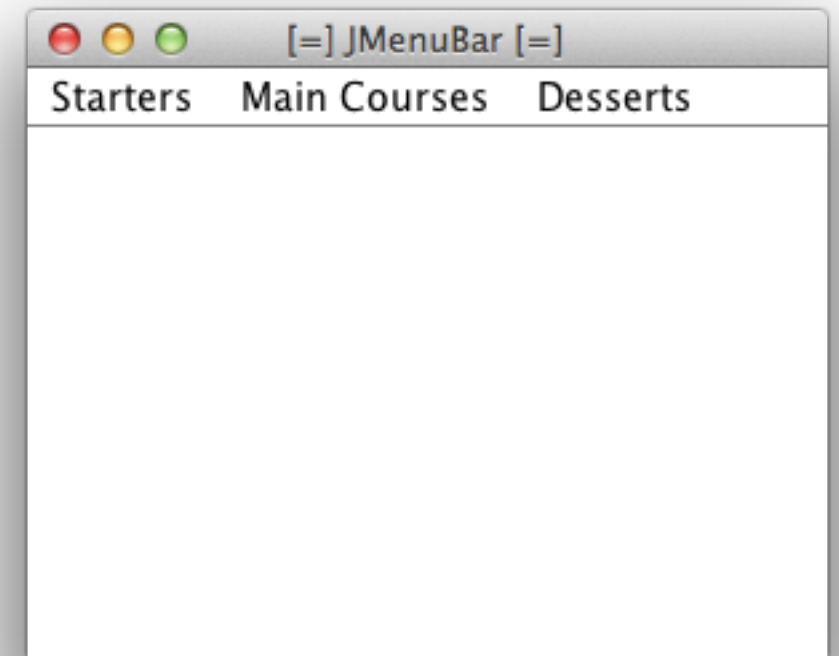
```
    ...
```

```
    // dessert code
```

```
    ...
```

```
    return JMenuBar;
```

```
}
```



see: [examples.swing.misc.MenuBarExample](#)

# Menus en Swing - JMenuItem

// starters code

```
JMenuItem soup = new JMenuItem("Soup");  
JMenuItem pate = new JMenuItem("Pate");  
JMenuItem salad = new JMenuItem("Salad");
```

```
starter.add(soup);  
starter.add(pate);  
starter.add(salad);
```

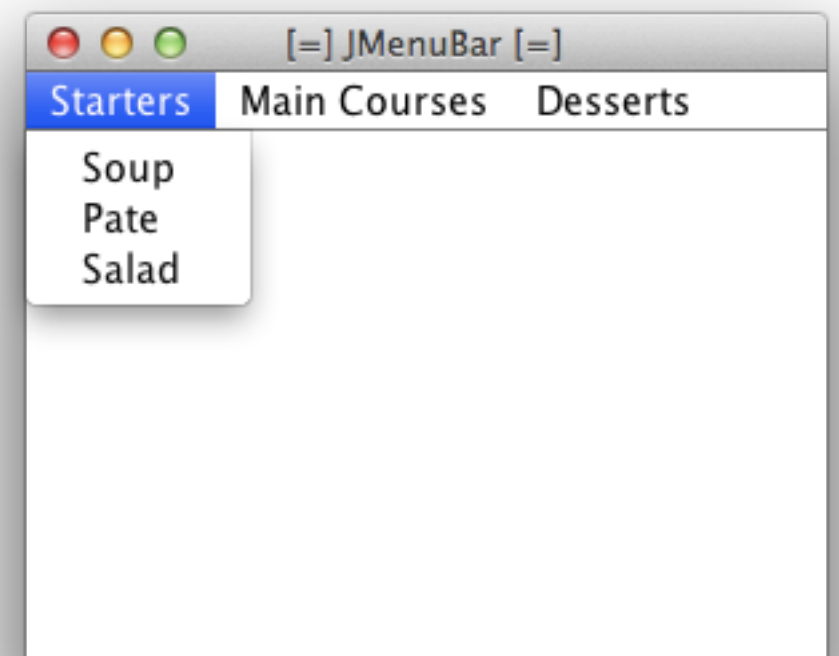


# Menus en Swing - JMenuItem

// starters code

```
JMenuItem soup = new JMenuItem("Soup");  
JMenuItem pate = new JMenuItem("Pate");  
JMenuItem salad = new JMenuItem("Salad");
```

```
starter.add(soup);  
starter.add(pate);  
starter.add(salad);
```

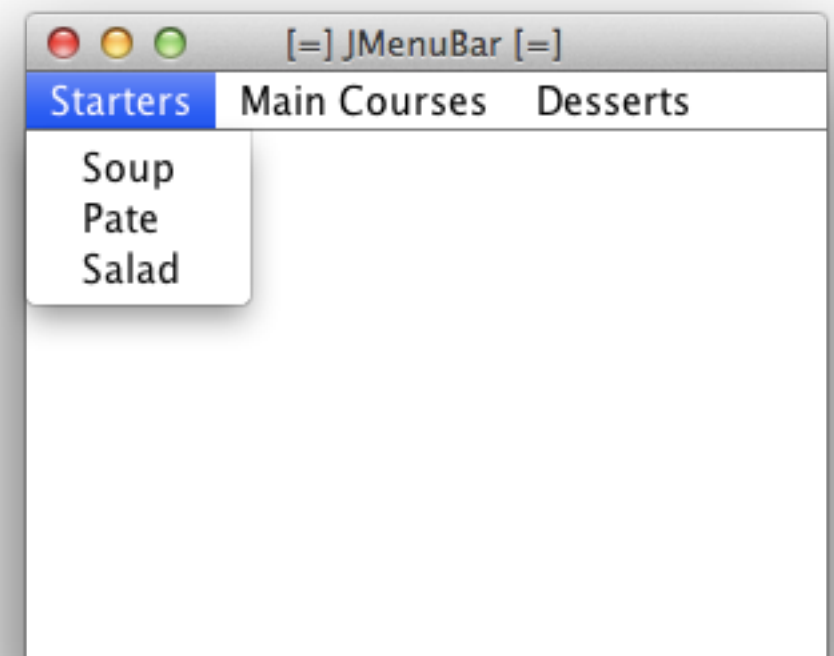


# Menus en Swing - JMenuItem

// starters code

```
JMenuItem soup = new JMenuItem("Soup");  
JMenuItem pate = new JMenuItem("Pate");  
JMenuItem salad = new JMenuItem("Salad");
```

```
starter.add(soup);  
starter.add(pate);  
starter.add(salad);
```





# Menus - JRadioButtonMenuItem

// maincourse code

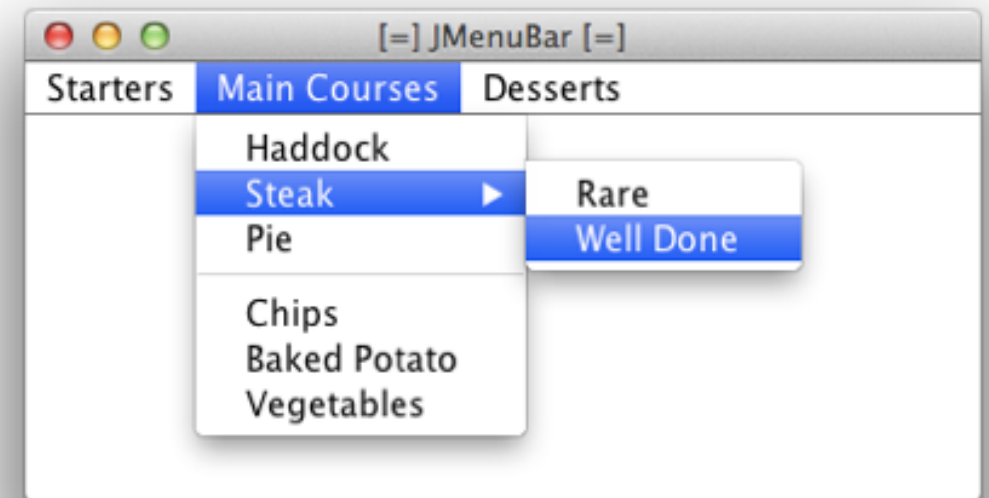
```
JMenuItem fish = new JMenuItem("Haddock");  
maincourse.add(fish);
```

```
JMenu steak = new JMenu("Steak");  
JMenuItem rare = new JMenuItem("Rare");  
JMenuItem welldone = new JMenuItem("Well Done");  
steak.add(rare);  
steak.add(welldone);  
maincourse.add(steak);
```

```
JMenuItem pie = new JMenuItem("Pie");  
maincourse.add(pie);
```

```
maincourse.addSeparator();
```

```
JRadioButtonMenuItem chips = new JRadioButtonMenuItem("Chips");  
JRadioButtonMenuItem bp = new JRadioButtonMenuItem("Baked Potato");  
JRadioButtonMenuItem vege = new JRadioButtonMenuItem("Vegetables");  
ButtonGroup sides = new ButtonGroup();  
sides.add(chips);  
sides.add(bp);  
sides.add(vege);  
maincourse.add(chips);  
maincourse.add(bp);  
maincourse.add(vege);
```



see: [examples.swing.misc.MenuBarExample](#)



# Menus - JRadioButtonMenuItem

// maincourse code

```
JMenuItem fish = new JMenuItem("Haddock");  
maincourse.add(fish);
```

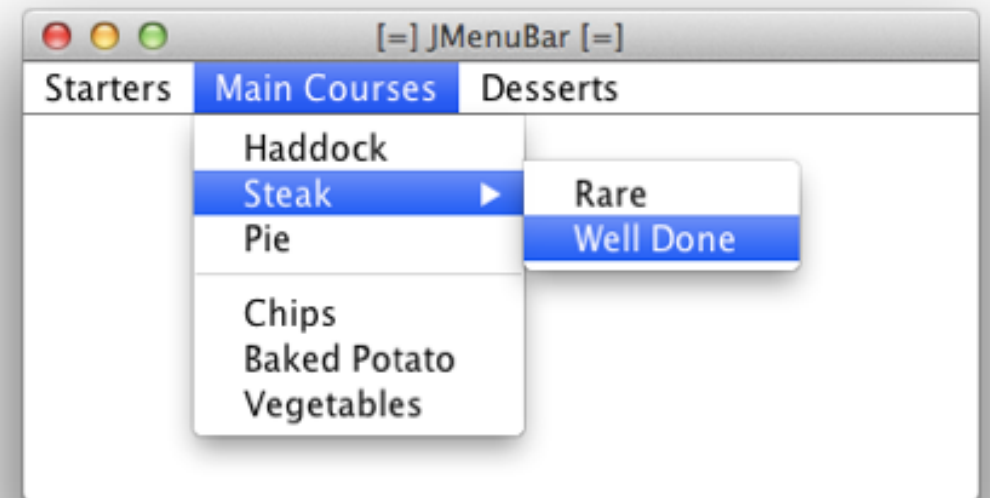
```
JMenu steak = new JMenu("Steak");  
JMenuItem rare = new JMenuItem("Rare");  
JMenuItem welldone = new JMenuItem("Well Done");  
steak.add(rare);  
steak.add(welldone);  
maincourse.add(steak);
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```
JMenuItem pie = new JMenuItem("Pie");  
maincourse.add(pie);
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```
maincourse.addSeparator();
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JRadioButtonMenuItem chips = new JRadioButtonMenuItem("Chips");  
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JRadioButtonMenuItem vege = new JRadioButtonMenuItem("Vegetables");  
ButtonGroup sides = new ButtonGroup();  
sides.add(chips);  
sides.add(bp);  
sides.add(vege);  
maincourse.add(chips);  
maincourse.add(bp);  
maincourse.add(vege);
```

see: [examples.swing.misc.MenuBarExample](#)



# Menus - JRadioButtonMenuItem

// maincourse code

```
JMenuItem fish = new JMenuItem("Haddock");  
maincourse.add(fish);
```

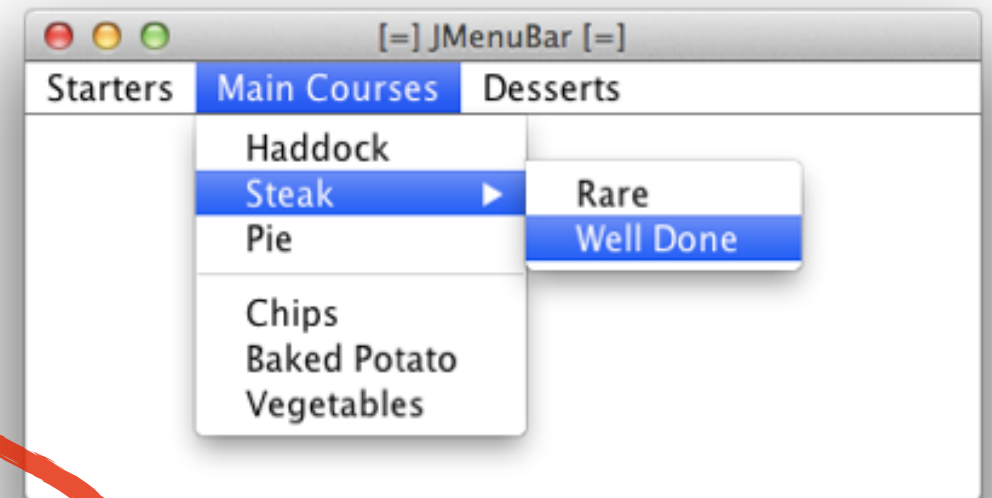
```
JMenu steak = new JMenu("Steak");  
JMenuItem rare = new JMenuItem("Rare");  
JMenuItem welldone = new JMenuItem("Well Done");  
steak.add(rare);  
steak.add(welldone);  
maincourse.add(steak);
```

```
JMenuItem pie = new JMenuItem("Pie");  
maincourse.add(pie);
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```
maincourse.addSeparator();
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```
JRadioButtonMenuItem chips = new JRadioButtonMenuItem("Chips");  
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JRadioButtonMenuItem vege = new JRadioButtonMenuItem("Vegetables");  
ButtonGroup sides = new ButtonGroup();  
sides.add(chips);  
sides.add(bp);  
sides.add(vege);  
maincourse.add(chips);  
maincourse.add(bp);  
maincourse.add(vege);
```

see: [examples.swing.misc.MenuBarExample](#)



# Menus - JRadioButtonMenuItem

// maincourse code

```
JMenuItem fish = new JMenuItem("Haddock");  
maincourse.add(fish);
```

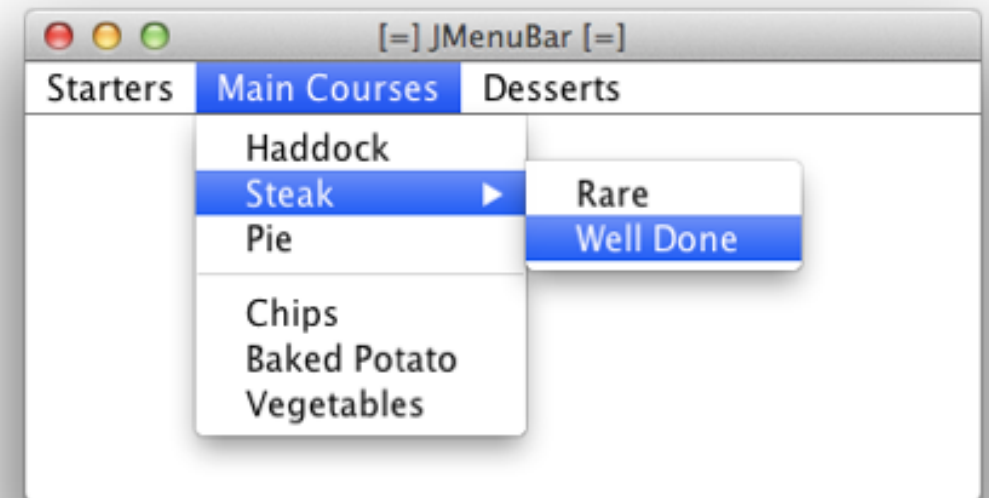
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JMenu steak = new JMenu("Steak");  
JMenuItem rare = new JMenuItem("Rare");  
JMenuItem welldone = new JMenuItem("Well Done");  
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steak.add(welldone);  
maincourse.add(steak);
```

```
JMenuItem pie = new JMenuItem("Pie");  
maincourse.add(pie);
```

```
maincourse.addSeparator();
```

```
JRadioButtonMenuItem chips = new JRadioButtonMenuItem("Chips");  
JRadioButtonMenuItem bp = new JRadioButtonMenuItem("Baked Potato");  
JRadioButtonMenuItem vege = new JRadioButtonMenuItem("Vegetables");  
ButtonGroup sides = new ButtonGroup();  
sides.add(chips);  
sides.add(bp);  
sides.add(vege);  
maincourse.add(chips);  
maincourse.add(bp);  
maincourse.add(vege);
```

see: [examples.swing.misc.MenuBarExample](#)



# Menus - JRadioButtonMenuItem

// maincourse code

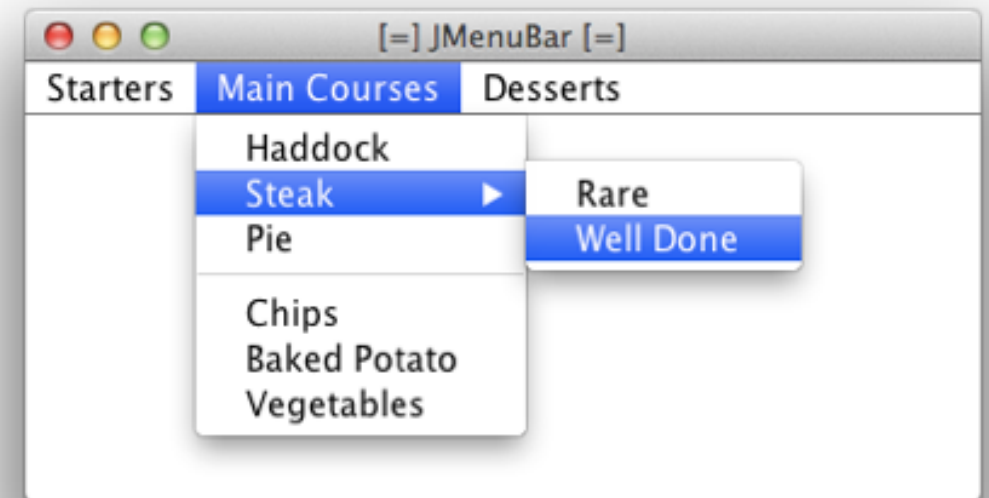
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JMenuItem fish = new JMenuItem("Haddock");  
maincourse.add(fish);
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steak.add(rare);  
steak.add(welldone);  
maincourse.add(steak);
```

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JMenuItem pie = new JMenuItem("Pie");  
maincourse.add(pie);
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```
maincourse.addSeparator();
```

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JRadioButtonMenuItem chips = new JRadioButtonMenuItem("Chips");  
JRadioButtonMenuItem bp = new JRadioButtonMenuItem("Baked Potato");  
JRadioButtonMenuItem vege = new JRadioButtonMenuItem("Vegetables");  
ButtonGroup sides = new ButtonGroup();  
sides.add(chips);  
sides.add(bp);  
sides.add(vege);  
maincourse.add(chips);  
maincourse.add(bp);  
maincourse.add(vege);
```



see: [examples.swing.misc.MenuBarExample](#)



# Menus - JRadioButtonMenuItem

// maincourse code

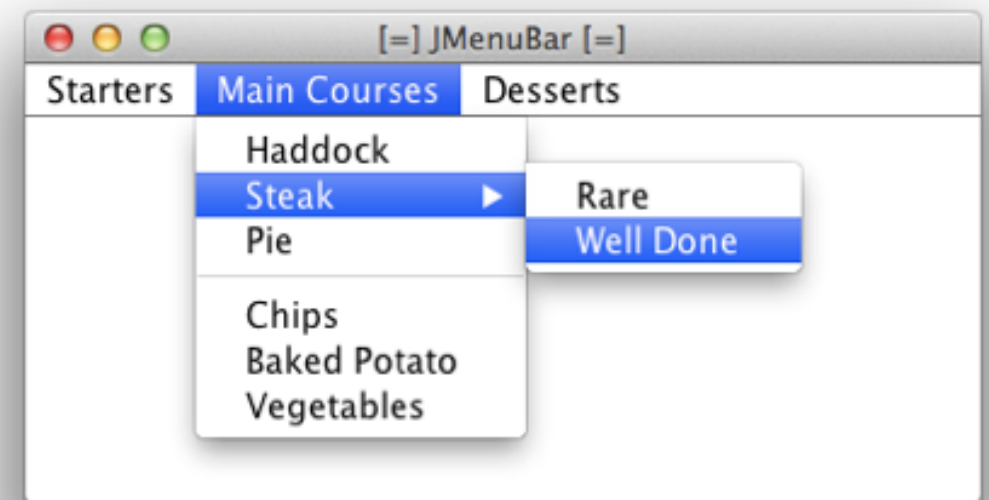
```
JMenuItem fish = new JMenuItem("Haddock");  
maincourse.add(fish);
```

```
JMenu steak = new JMenu("Steak");  
JMenuItem rare = new JMenuItem("Rare");  
JMenuItem welldone = new JMenuItem("Well Done");  
steak.add(rare);  
steak.add(welldone);  
maincourse.add(steak);
```

```
JMenuItem pie = new JMenuItem("Pie");  
maincourse.add(pie);
```

```
maincourse.addSeparator();
```

```
JRadioButtonMenuItem chips = new JRadioButtonMenuItem("Chips");  
JRadioButtonMenuItem bp = new JRadioButtonMenuItem("Baked Potato");  
JRadioButtonMenuItem vege = new JRadioButtonMenuItem("Vegetables");  
ButtonGroup sides = new ButtonGroup();  
sides.add(chips);  
sides.add(bp);  
sides.add(vege);  
maincourse.add(chips);  
maincourse.add(bp);  
maincourse.add(vege);
```



see: [examples.swing.misc.MenuBarExample](#)

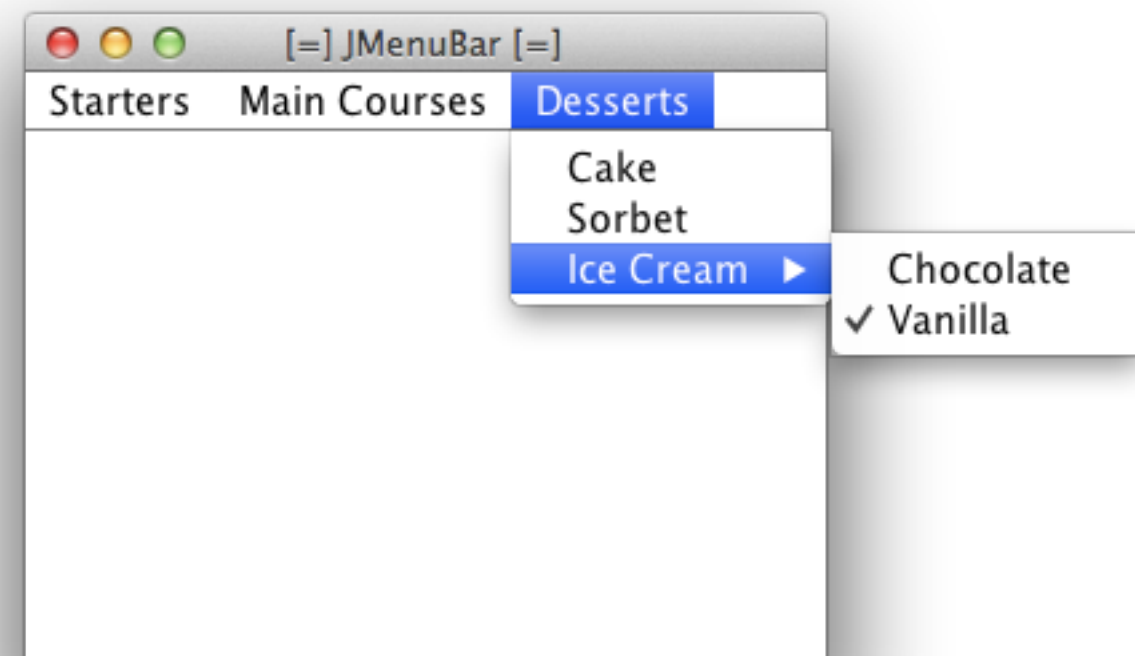
# Menus - JCheckBoxMenuItem

// dessert code

```
JCheckBoxMenuItem cake = new JCheckBoxMenuItem("Cake");  
desserts.add(cake);
```

```
JCheckBoxMenuItem sorbet = new JCheckBoxMenuItem("Sorbet");  
desserts.add(sorbet);
```

```
JMenu icecream = new JMenu("Ice Cream");  
JCheckBoxMenuItem choc = new JCheckBoxMenuItem("Chocolate");  
JCheckBoxMenuItem vani = new JCheckBoxMenuItem("Vanilla");  
icecream.add(choc);  
icecream.add(vani);  
desserts.add(icecream);
```



see: [examples.swing.misc.MenuBarExample](#)

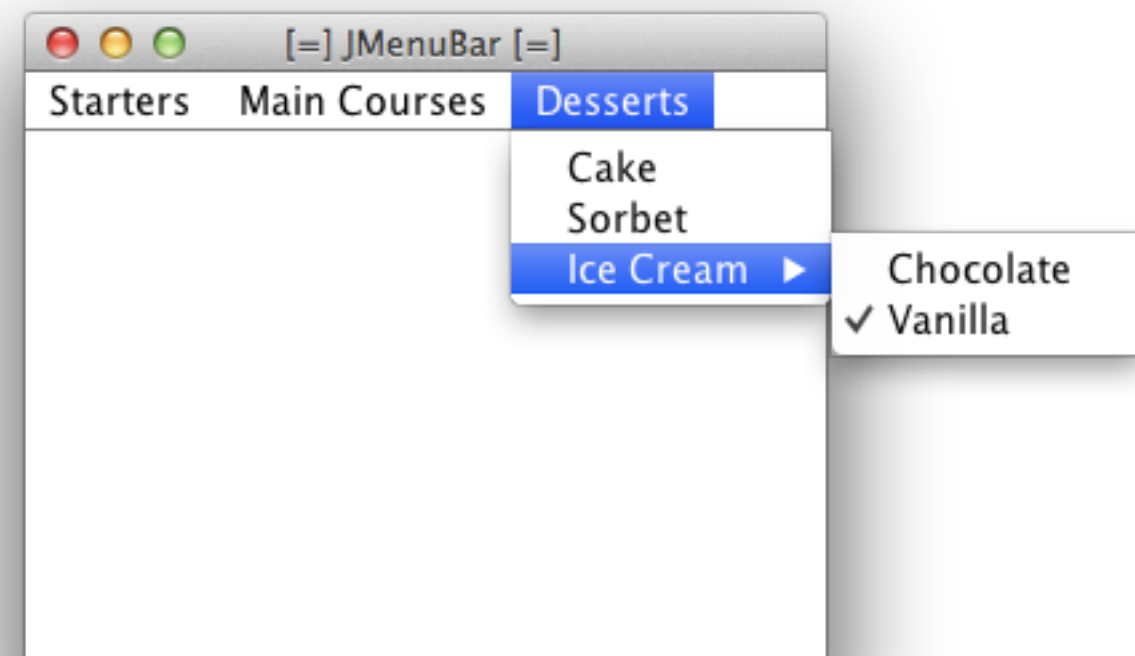
# Menus - JCheckBoxMenuItem

// dessert code

```
JCheckBoxMenuItem cake = new JCheckBoxMenuItem("Cake");  
desserts.add(cake);
```

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JCheckBoxMenuItem sorbet = new JCheckBoxMenuItem("Sorbet");  
desserts.add(sorbet);
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JMenu icecream = new JMenu("Ice Cream");  
JCheckBoxMenuItem choc = new JCheckBoxMenuItem("Chocolate");  
JCheckBoxMenuItem vani = new JCheckBoxMenuItem("Vanilla");  
icecream.add(choc);  
icecream.add(vani);  
desserts.add(icecream);
```



see: [examples.swing.misc.MenuBarExample](#)



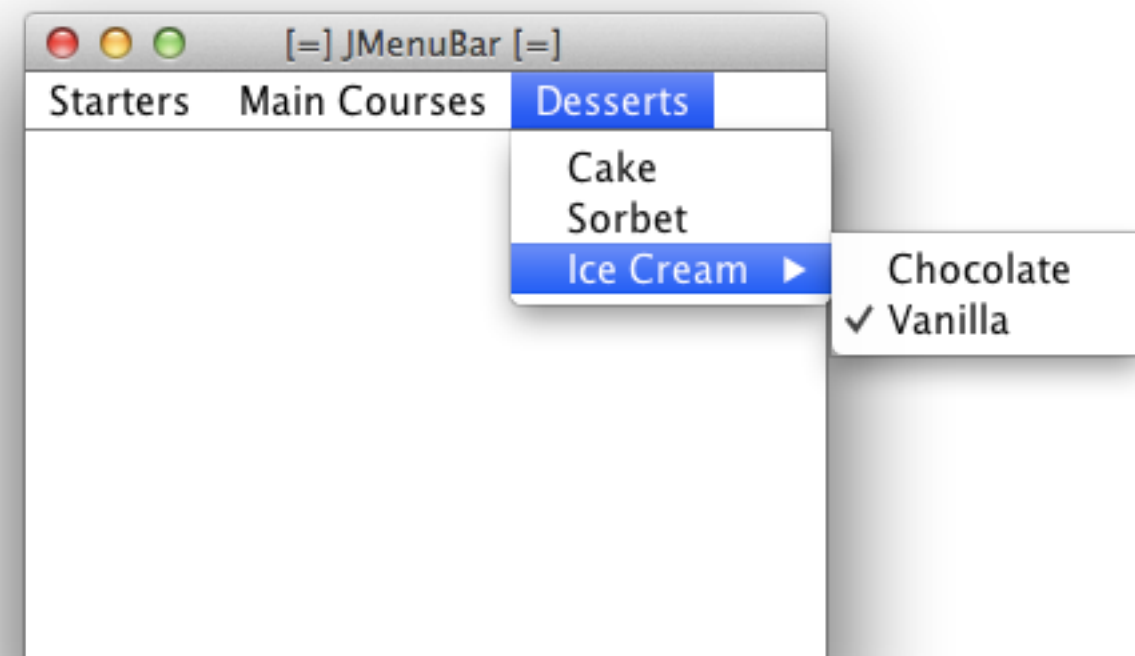
# Menus - JCheckBoxMenuItem

// dessert code

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JCheckBoxMenuItem cake = new JCheckBoxMenuItem("Cake");  
desserts.add(cake);
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desserts.add(sorbet);
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JMenu icecream = new JMenu("Ice Cream");  
JCheckBoxMenuItem choc = new JCheckBoxMenuItem("Chocolate");  
JCheckBoxMenuItem vani = new JCheckBoxMenuItem("Vanilla");  
icecream.add(choc);  
icecream.add(vani);  
desserts.add(icecream);
```



see: [examples.swing.misc.MenuBarExample](#)

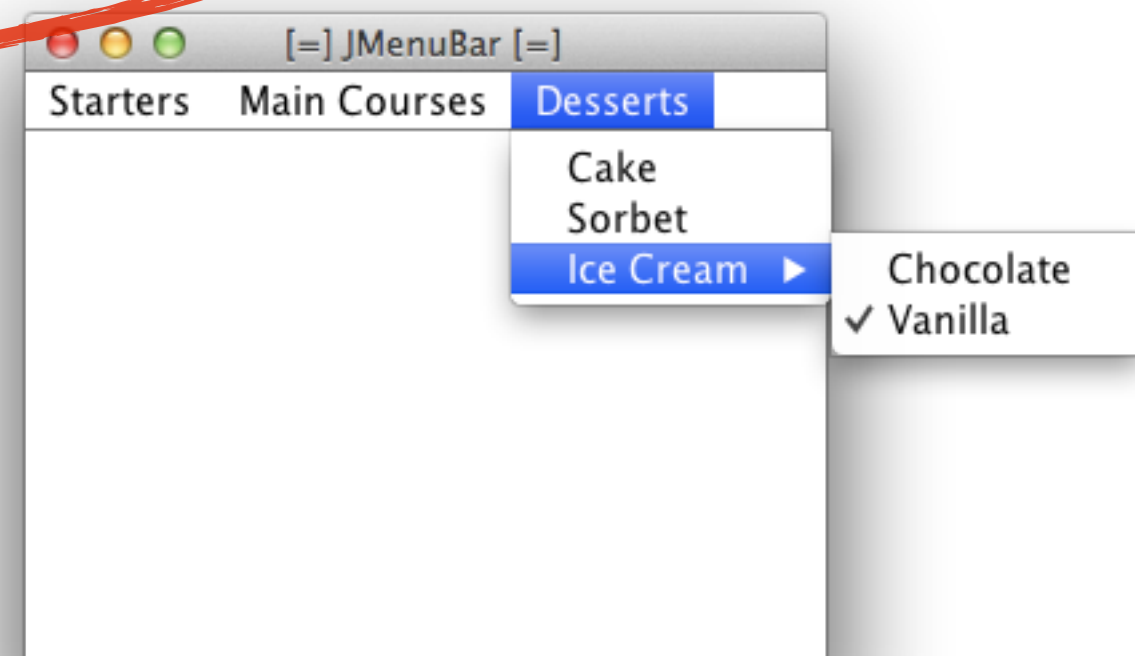
# Menus - JCheckBoxMenuItem

// dessert code

```
JCheckBoxMenuItem cake = new JCheckBoxMenuItem("Cake");  
desserts.add(cake);
```

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JCheckBoxMenuItem sorbet = new JCheckBoxMenuItem("Sorbet");  
desserts.add(sorbet);
```

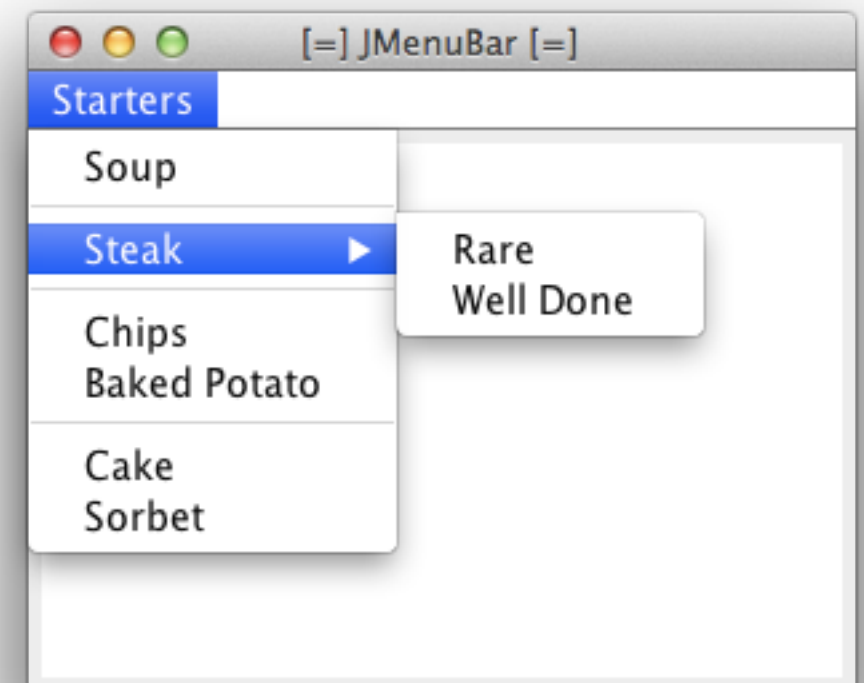
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JMenu icecream = new JMenu("Ice Cream");  
JCheckBoxMenuItem choc = new JCheckBoxMenuItem("Chocolate");  
JCheckBoxMenuItem vani = new JCheckBoxMenuItem("Vanilla");  
icecream.add(choc);  
icecream.add(vani);  
desserts.add(icecream);
```



see: [examples.swing.misc.MenuBarExample](#)

# Menus en Swing - Listeners

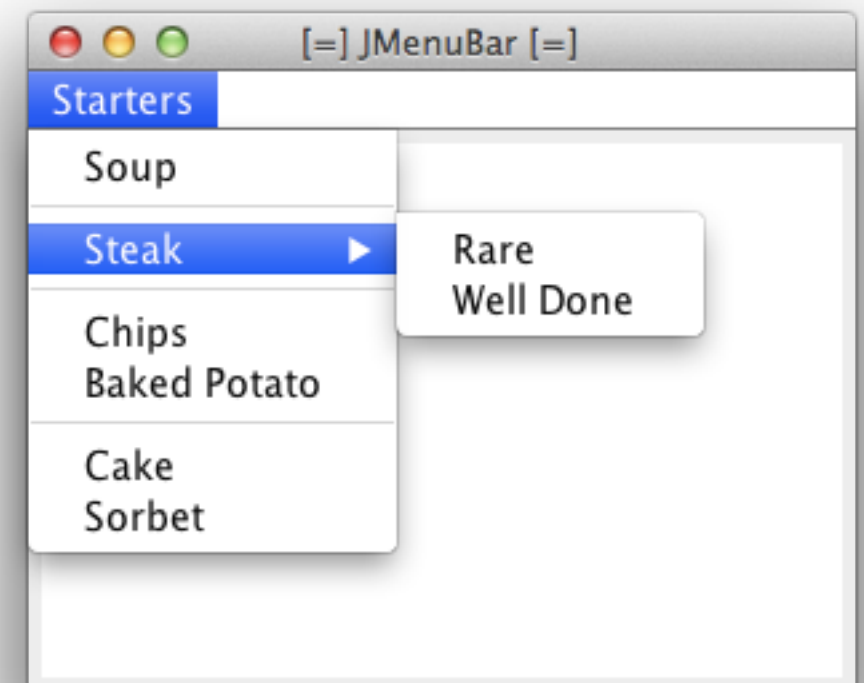
```
public JMenuBar createMenuBar() {  
    ...  
    JMenuItem soup = new JMenuItem("Soup");  
    soup.addActionListener(this);  
  
    JMenuItem rare = new JMenuItem("Rare");  
    rare.addActionListener(this);  
    JMenuItem welldone = new JMenuItem("Well Done");  
    welldone.addActionListener(this);  
    ...  
  
    JRadioButtonMenuItem chips = new JRadioButtonMenuItem("Chips");  
    JRadioButtonMenuItem bp = new JRadioButtonMenuItem("Baked Potato");  
    chips.addActionListener(this);  
    bp.addActionListener(this);  
    ...  
  
    cake = new JCheckBoxMenuItem("Cake");  
    sorbet = new JCheckBoxMenuItem("Sorbet");  
    sorbet.addItemListener(this);  
    cake.addItemListener(this);  
    ....  
}
```



see: [examples.swing.misc.MenuBarExample\\_1](#)

# Menus en Swing - Listeners

```
public JMenuBar createMenuBar() {  
    ...  
    JMenuItem soup = new JMenuItem("Soup");  
    soup.addActionListener(this);  
  
    JMenuItem rare = new JMenuItem("Rare");  
    rare.addActionListener(this);  
    JMenuItem welldone = new JMenuItem("Well Done");  
    welldone.addActionListener(this);  
    ...  
}
```



```
    JRadioButtonMenuItem chips = new JRadioButtonMenuItem("Chips");  
    JRadioButtonMenuItem bp = new JRadioButtonMenuItem("Baked Potato");
```

```
    chips.addActionListener(this);  
    bp.addActionListener(this);  
    ...
```

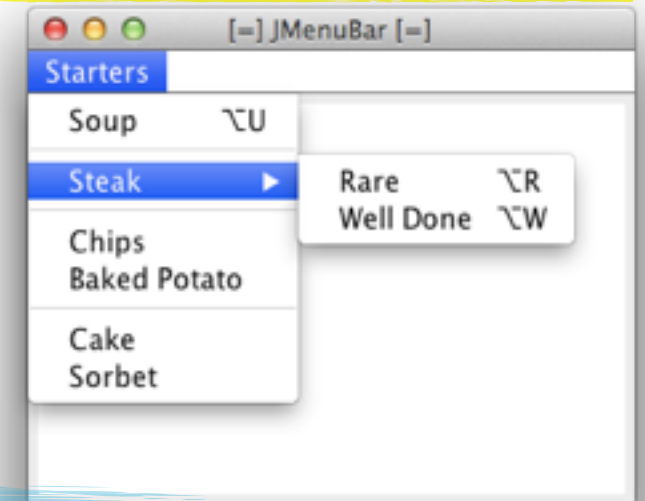
```
    cake = new JCheckBoxMenuItem("Cake");  
    sorbet = new JCheckBoxMenuItem("Sorbet");  
    sorbet.addItemListener(this);  
    cake.addItemListener(this);  
    ...  
}
```

```
public void actionPerformed(ActionEvent e) {  
    whitebox.append(  
        e.getActionCommand() + " Selected \n");  
}
```

```
public void itemStateChanged(ItemEvent e) {  
    if(e.getSource() == cake) {  
        whitebox.append("Cake Clicked\n");  
    } else if(e.getSource() == sorbet) {  
        whitebox.append("Sorbet Clicked\n");  
    }  
}
```

# Menu - Mnemonic/Accelerators

```
public JMenuBar createMenuBar() {  
    ...  
    JMenu starter = new JMenu("Starters");  
    starter.setMnemonic(KeyEvent.VK_S);  
    menuBar.add(starter);  
    ...  
    JMenuItem soup = new JMenuItem("Soup");  
    soup.setMnemonic(KeyEvent.VK_U);  
    soup.setAccelerator(  
        KeyStroke.getKeyStroke(KeyEvent.VK_U, ActionEvent.ALT_MASK));  
    ...  
    JMenu steak = new JMenu("Steak");  
    steak.setMnemonic(KeyEvent.VK_T);  
    ...  
    JMenuItem rare = new JMenuItem("Rare");  
    rare.setMnemonic(KeyEvent.VK_R);  
    rare.setAccelerator(  
        KeyStroke.getKeyStroke(KeyEvent.VK_R, ActionEvent.ALT_MASK));  
    ...  
    JMenuItem welldone = new JMenuItem("Well Done");  
    welldone.setMnemonic(KeyEvent.VK_W);  
    welldone.setAccelerator(  
        KeyStroke.getKeyStroke(KeyEvent.VK_W, ActionEvent.ALT_MASK));  
    ...  
    JRadioButtonMenuItem chips = new JRadioButtonMenuItem("Chips");  
    chips.setMnemonic(KeyEvent.VK_C);  
    JRadioButtonMenuItem bp = new JRadioButtonMenuItem("Baked Potato");  
    bp.setMnemonic(KeyEvent.VK_P);  
    ...  
}
```



see: [examples.swing.misc.MenuBarExample\\_2](#)