

JExcel Fact Sheet

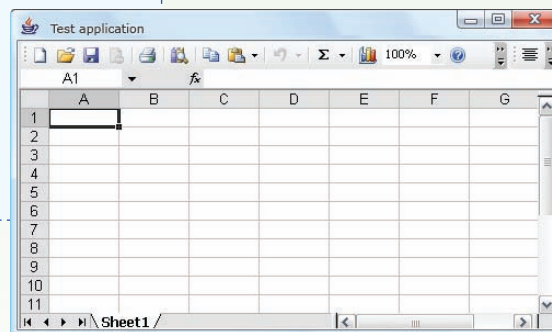
Use Microsoft Excel inside your Java application

Need to incorporate a spreadsheet into Java application?

JExcel gives all the power of Microsoft Excel: workbooks, formulas, full spreadsheet control. Easy to mix Java logic and Excel capabilities.

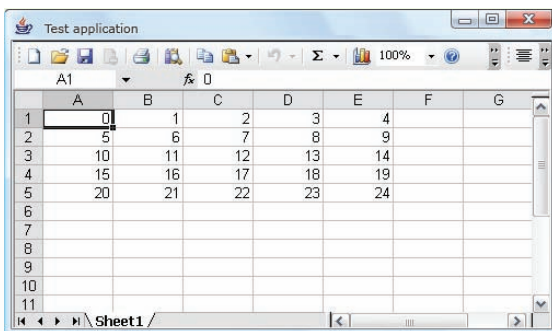
Do you want to embed the spreadsheet? Just add a few simple lines of code.

```
// Simple JWorkbook-based application
JFrame frame= new JFrame("Test application");
frame.setDefaultCloseOperation
(javax.swing.WindowConstants.EXIT_ON_CLOSE);
Container cp = frame.getContentPane();
cp.setLayout( new BorderLayout());
JWorkbook workbook = new JWorkbook();
cp.add(workbook);
frame.setBounds(100, 100, 500, 500 );
frame.setVisible(true);
```



Now the spreadsheet is incorporated in the application. Of course, you want to manipulate it.

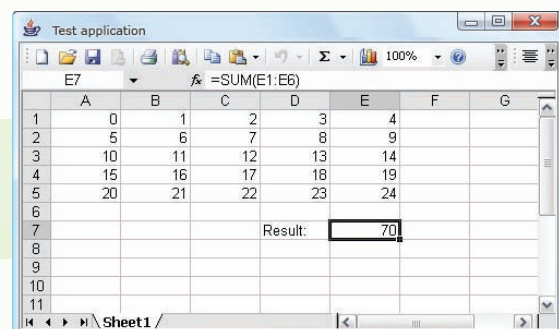
Fill cells with scientific data, statistics, measurement results, or any other data. As in the previous example, it takes just a few lines of code.

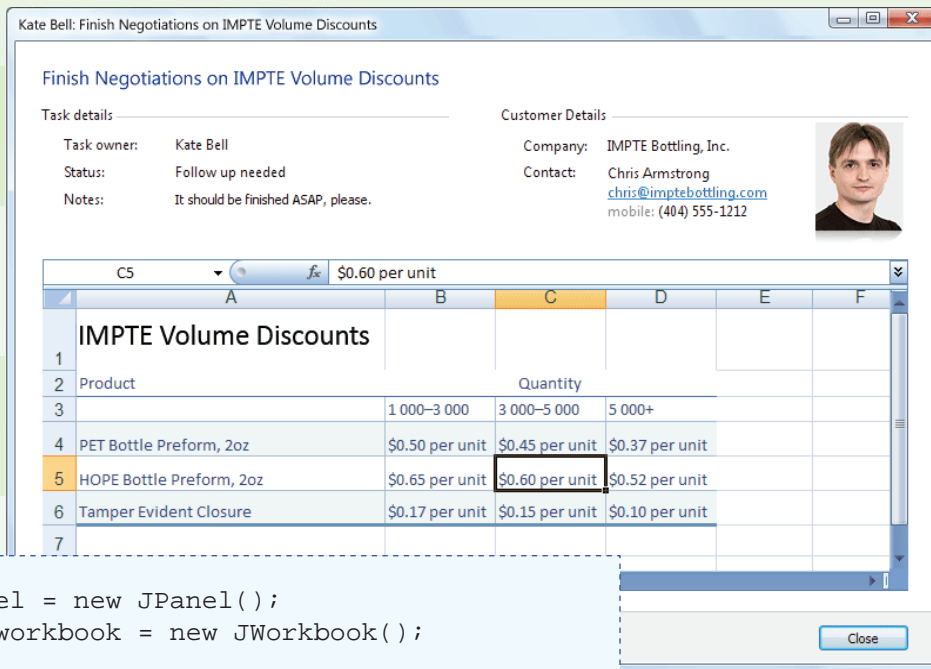


```
// Gets reference to active worksheet
Worksheet sheet=workbook.getActiveWorksheet();
// Creates 2d double array and fills the range
final int ARRAY_SIZE = 5;
double dcount = 0;
final double double_array[][] =
    new double[ARRAY_SIZE][ARRAY_SIZE] ;
for(int i=0; i < ARRAY_SIZE; i++)
{
    for (int j =0; j < ARRAY_SIZE ; j++)
    { double_array[i][j] = dcount++;}
}
sheet.fillWithArray("A1:E5", double_array);
```

Likewise, you can easily set up formulas within the sheet. Here, we've put in a label and added a sum for a row.

```
// Adds comment and SUM formula
Cell cell = sheet.getCell("D7");
cell.setValue("Result:");
Cell sumcell = sheet.getCell("E7");
sumcell.setValue("=SUM(E1:E6)");
```





```

JPanel panel = new JPanel();
JWorkbook workbook = new JWorkbook();

panel.setLayout(new BorderLayout());
panel.add(workbook);

Worksheet sheet = workbook.getActiveWorksheet();
sheet.fillWithArray("A1:D6", pricesArray);

```

As you can see, with a few simple lines, you can easily integrate Excel into your Java applications.

Feature Overview

Embed a workbook in Java Swing

- Integrates like an ordinary Swing component
- Open, save and print workbooks

Manage workbooks

- Create new workbooks
- Open existing workbooks
- Save in any formats supported by Excel
- Modify properties such as name, title, author, etc.
- Control password protection
- Control window properties, such as caption, size, zoom and window state

Manage worksheets

- Access any worksheet within a workbook
- Add, move or remove worksheets
- Control worksheet properties

Manipulate cells and ranges

- Get and set cell values, by coordinates, address or name
- Manipulate ranges
- Merge and unmerge cells and ranges
- Customize cell appearance, including format, font, alignment, color and pattern

Process workbook events

- Add Java listeners for application, workbook, and worksheet events
- Add special code when workbooks are created, opened, saved, closed or previewed

Work with peers and threads

- Directly interact with Microsoft Excel COM API from Java, using the included ComfyJ run-time
- Control threading model

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