



the  
**POWER**  
of  
**JAVA™**



**JGoodies**



JavaOne  
Part of the Network for Business Success

# Do's and Don'ts for Swing Applications

**Karsten Lentzsch**

Founder  
JGoodies  
[www.JGoodies.com](http://www.JGoodies.com)

TS-1099

# It's Easy to Program Swing...

# It's Easy to Program Swing Badly

# Goal

Learn how to quickly improve the appearance of your applications

# Agenda

Introduction

Don'ts

Do's

Tips and Tricks

Before and After

# Agenda

## Introduction

Don'ts

Do's

Tips and Tricks

Before and After

Edit Company : BoyceMotors [Eliza]

**Username**  
BoyceMotors  
Information  
History

**Contact Details**

**Existing**  
Home  
Edit Remove  
Information History

**New**  
E-mail Address  
Add

**Incorporation Date**  
2002 April 2  
Information History

**Administrator**  
Cecile  
Enabled  
Information History

**Associated Clients**

**Existing**  
Cecile  
Edit Remove  
Information History

**New**  
Company  
Add

**Bookings**

**Existing**  
HJY20030909g6Y  
Edit Remove  
Information History

**New**  
Car Booking  
Add

Done

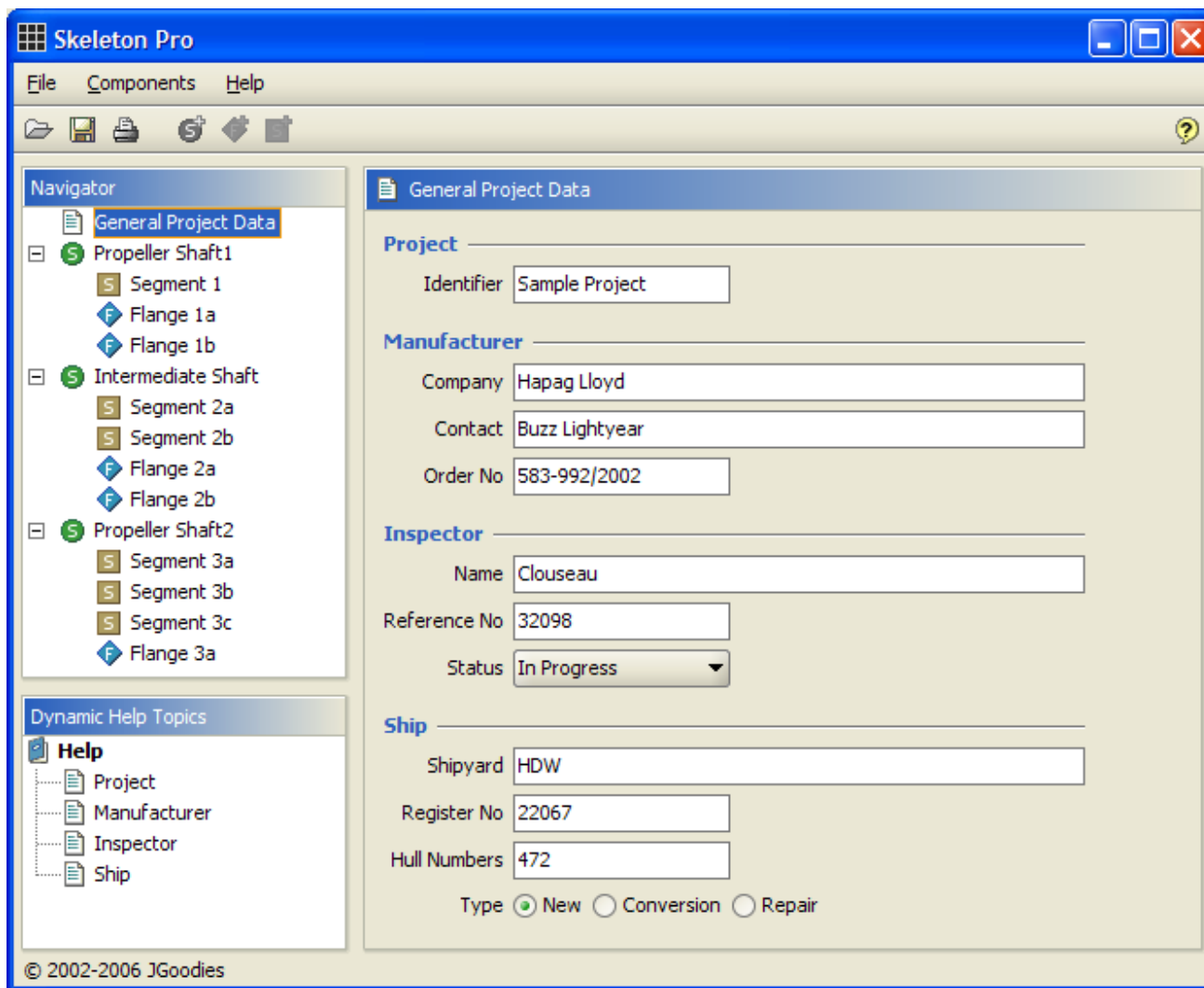
# What's the Problem?

- User interface is poor, ugly or horrible
- Good design is difficult to implement
- Swing is difficult to learn and work with
- Tutorials, manuals, books show poor design
- Hard to find good examples



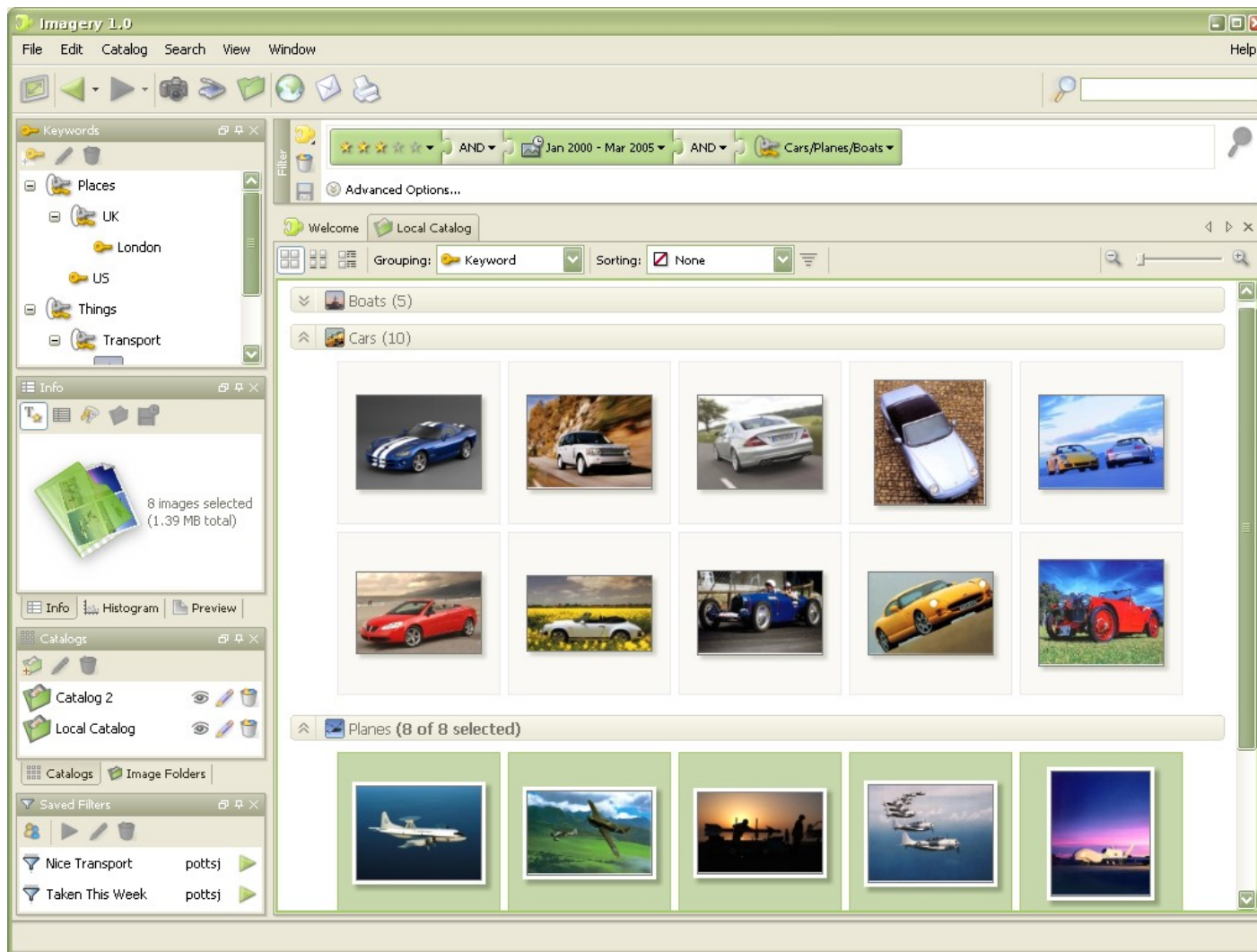
# What Is Our Focus?

- Good design **you** can do
- Things you can improve **quickly**
- Form-oriented design
- Compete with native apps
- More design fun



# Target

- The “average” desktop project:
  - Developers not trained in visual design
  - Little time for designing the UI
  - No budget for usability tests
  - Customers that don’t pay for good design



# Principles

- Small changes can break the design balance
- Small things add up
- Direct attention to the content, not the design
- Change only what you understand well!
- Don't touch what you don't understand!

# Agenda

Introduction

**Don'ts**

Do's

Tips and Tricks

Before and After

# Don't Change Colors!

- Do not add colors to the desktop
- Do not add colors to the Swing L&F
- Avoid heavily saturated colors

**Skeleton Pro** [Window Title Bar]

**File Components Help** [Menu Bar]

[Icons: Open, Save, Print, Undo, Redo, Help]

**Navigator**

- [-] General Project Data
- [+] Propeller Shaft1
  - [-] Segment 1
  - [-] Flange 1a
  - [-] Flange 1b
- [+] Intermediate Shaft
  - [-] Segment 2a
  - [-] Segment 2b
  - [-] Flange 2a
  - [-] Flange 2b
- [+] Propeller Shaft2
  - [-] Segment 3a
  - [-] Segment 3b
  - [-] Segment 3c
  - [-] Flange 3a

**Dynamic Help Topics**

- [+] Help
  - [-] Project
  - [-] Manufacturer
  - [-] Inspector
  - [-] Ship

**General Project Data**

**Project**

Identifier:

**Manufacturer**

Company:

Contact:

Order No:

**Inspector**

Name:

Reference No:

Status:

**Ship**

Shipyards:

Register No:

Hull Numbers:


Type:  New  Conversion  Repair

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☰ **Skeleton Pro**

File   Components   Help



Navigator

- ☰ S General Project Data
- ☰ S Propeller Shaft1
  - S Segment 1
  - F Flange 1a
  - F Flange 1b
- ☰ S Intermediate Shaft
  - S Segment 2a
  - S Segment 2b
  - F Flange 2a
  - F Flange 2b
- ☰ S Propeller Shaft2
  - S Segment 3a
  - S Segment 3b
  - S Segment 3c
  - F Flange 3a

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Status

**Ship**

Shipyards

Register No

Hull Numbers

Type  New    Conversion    Repair

Dynamic Help Topics

- H Help
  - Project
  - Manufacturer
  - Inspector
  - Ship

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☰ **Skeleton Pro**

File Components Help

📁 💾 🖨 ⚙ ↶ 🗑
?

Navigator

- 📄 General Project Data
- ☐ 🟢 Propeller Shaft1
  - 🟠 Segment 1
  - 🔵 Flange 1a
  - 🔵 Flange 1b
- ☐ 🟢 Intermediate Shaft
  - 🟠 Segment 2a
  - 🟠 Segment 2b
  - 🔵 Flange 2a
  - 🔵 Flange 2b
- ☐ 🟢 Propeller Shaft2
  - 🟠 Segment 3a
  - 🟠 Segment 3b
  - 🟠 Segment 3c
  - 🔵 Flange 3a

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Contact

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**Inspector** \_\_\_\_\_

Name

Reference No

Status

**Ship** \_\_\_\_\_

Shipyards

Register No

Hull Numbers

Type  New  Conversion  Repair

Dynamic Help Topics

- 📄 **Help**
- 📄 Project
- 📄 Manufacturer
- 📄 Inspector
- 📄 Ship

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**Skeleton Pro** [Window Title Bar]

File Components Help [Menu Bar]

[Icons: Open, Save, Print, Undo, Redo, Help]

**Navigator**

- General Project Data
- Propeller Shaft1
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  - Segment 2a
  - Segment 2b
  - Flange 2a
  - Flange 2b
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  - Segment 3a
  - Segment 3b
  - Segment 3c
  - Flange 3a

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**Manufacturer**

Company:

Contact:

Order No:

**Inspector**

Name:

Reference No:

Status:

**Ship**

Shipyards:

Register No:

























































Hull Numbers:

Type:  New  Conversion  Repair

The screenshot displays several performance analysis windows in Eclipse:

- Call Tree:** Shows a tree view of method calls for `java.io/PrintStream.println(String)`. The tree includes `print`, `write`, and `write` sub-nodes.
- Execution:** A Gantt chart showing execution time for multiple threads (Thread-2 to Thread-7 and main) over a period of 15,000,000 time units.
- Reference Patterns:** A graph showing object references. A node for `3 StringSortedV` is expanded to show references to `1 MethodDrawStr`, `7 AWTEvent`, `2 Object`, `1 Histogram`, `1 ObjectDrawStr`, and `8 AWTEvent`. A tooltip for `5 Object` objects (200 bytes, num of refs: 5) is visible.
- Invocations:** A table listing method names and their invocation counts. The `getObject` method is highlighted with a count of 1/2.
- Execution Pattern:** A Gantt chart for the `java.util.ResourceBundle.getObject` method, showing sub-methods like `handleGetObject`, `loadLookup`, and `getContents`.
- Histogram of methods:** A heatmap showing the frequency of method calls across different classes. The `java.lang.String` class is the most frequent, with over 33,000 calls.

Paths Table

	Call Stack Prefix	Access	Table Access	Depth	Count	Clock Total ▼
					21,381	1,161,153,675
<input type="checkbox"/>	    deliverPO	 Read-Write	 	16	*4,548	*145,503,248
<input type="checkbox"/>	  scheduleWorkOrder	 Read-Write	 	34	113	141,970,941
<input type="checkbox"/>	  scheduleWorkOrder	 Read-Write	 	35	113	137,339,645
<input type="checkbox"/>	  scheduleWorkOrder	 Read-Write	 m_parts	34	615	128,048,284
<input type="checkbox"/>	  scheduleWorkOrder	 Read-Write	 	37	81	90,492,223
<input type="checkbox"/>	  scheduleWorkOrder	 Read-Write	 	30	279	68,705,334
<input type="checkbox"/>	  scheduleWorkOrder	 Read-Write	 	38	54	48,657,110
<input type="checkbox"/>	  scheduleWorkOrder	 Read-Write	 	33	189	45,416,502
<input type="checkbox"/>	  updateWorkOrder	 Read-Write	 	5	4,002	40,284,446
<input type="checkbox"/>	  scheduleWorkOrder	 Read-Write	 	13	470	36,327,201
<input type="checkbox"/>	  completeWorkOrder	 Read-Write	 	12	1,997	32,633,315

# Don't Change Fonts!

- Use native fonts
- Use native font sizes
- Use native font weights (normal vs. bold)
- Raster fonts like the native rasterizer (pixel, anti-aliased, subpixel-AA)

**Skeleton Pro** [Window Title Bar]

**File Components Help** [Menu Bar]

[Icons: Folder, Print, Undo, Redo, Save]

**Navigator**

- General Project Data
- Propeller Shaft 1
  - Segment 1
  - Flange 1a
  - Flange 1b
- Intermediate Shaft
  - Segment 2a
  - Segment 2b
  - Flange 2a
  - Flange 2b
- Propeller Shaft2
  - Segment 3a
  - Segment 3b
  - Segment 3c
  - Flange 3a

**Dynamic Help Topics**

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**General Project Data**

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Identifier:

**Manufacturer**

Company:

Contact:

Order No:

**Inspector**

Name:

Reference No:

Status:

**Ship**

Shipyards:

Register No:

Hull Numbers:

Type:  New  Conversion  Repair

**Skeleton Pro** File Components Help

**Navigator**

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Shipyard:

Register No:

Hull Numbers:

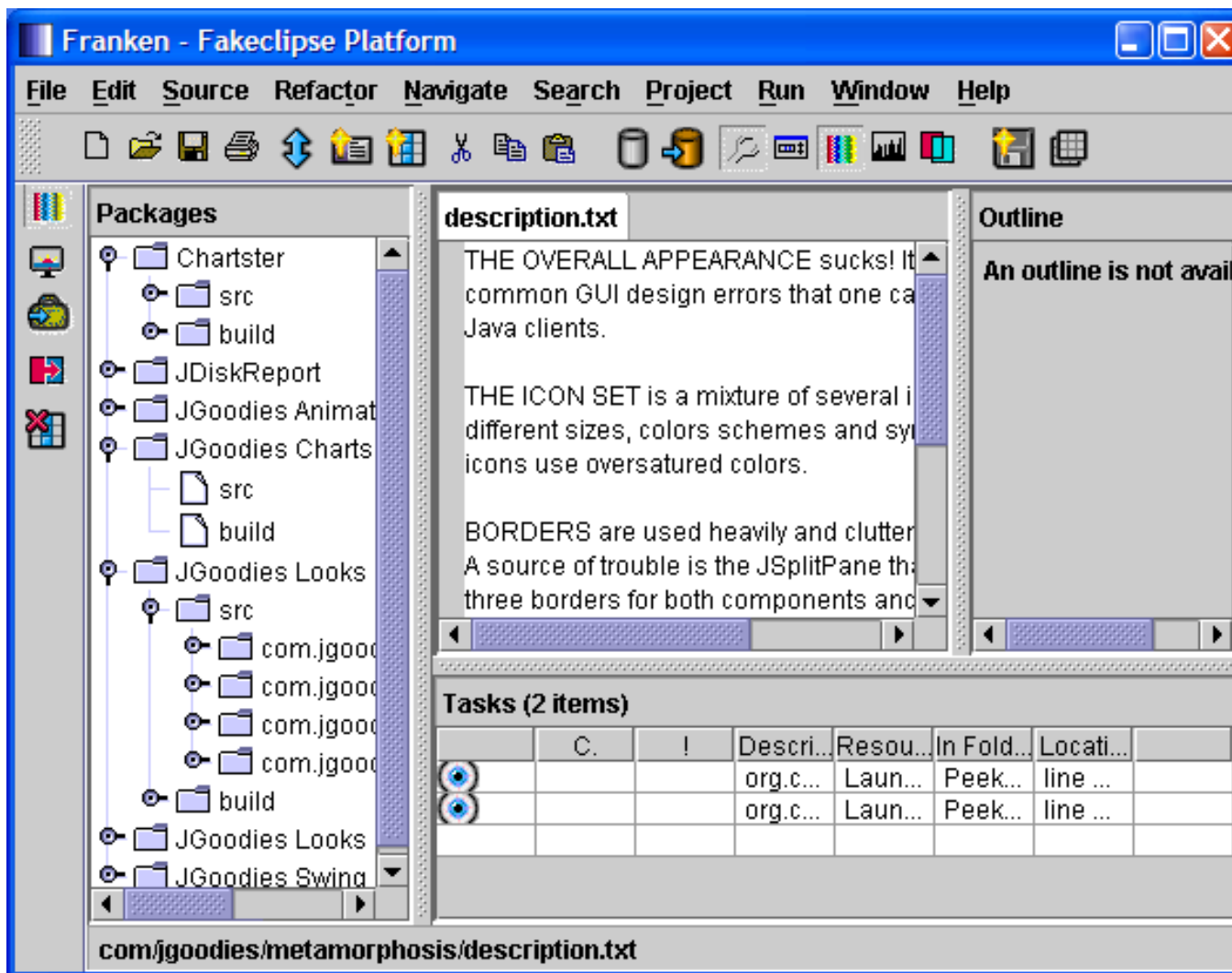
Type:  New  Conversion  Repair

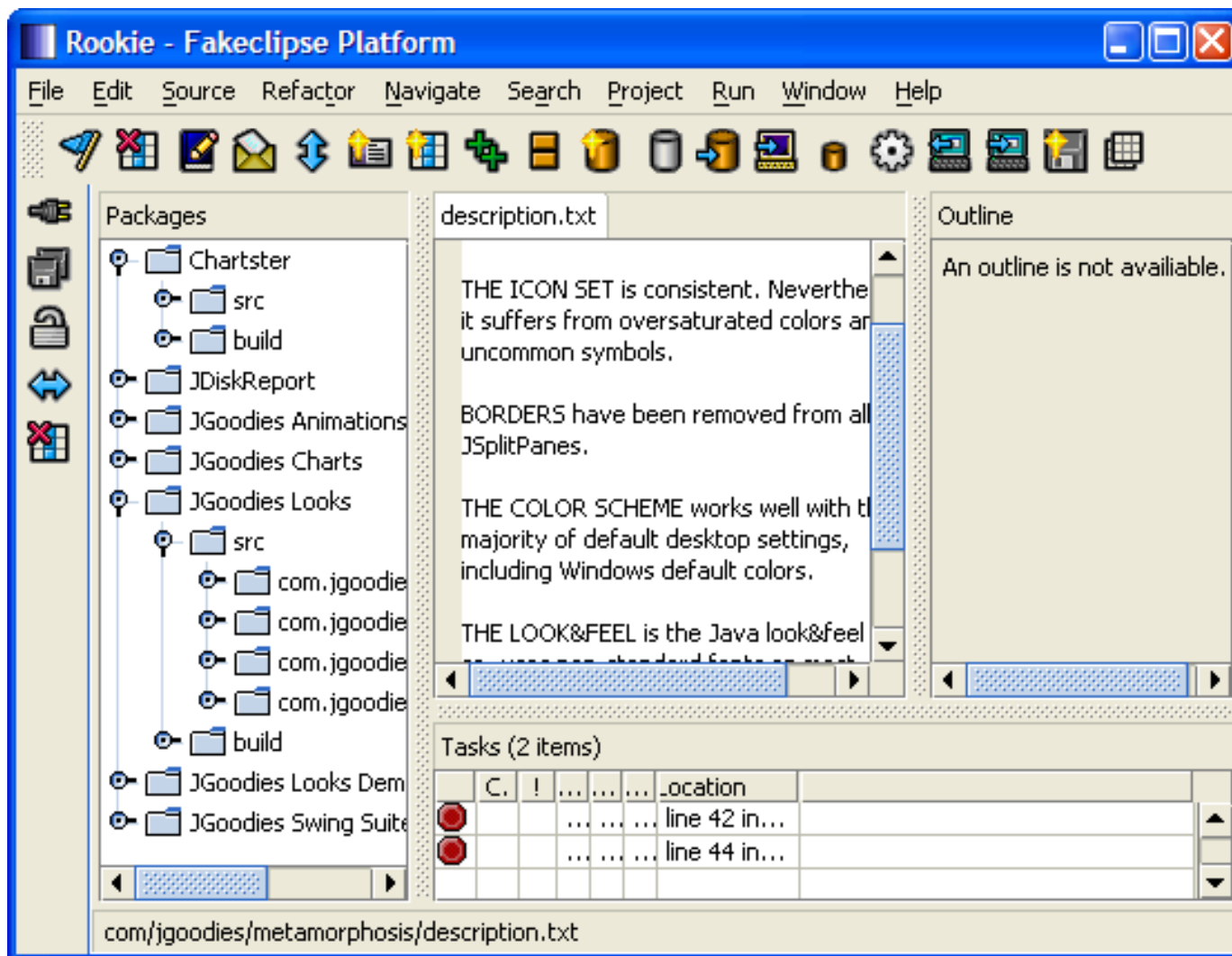
© 2002-2006 JGoodies

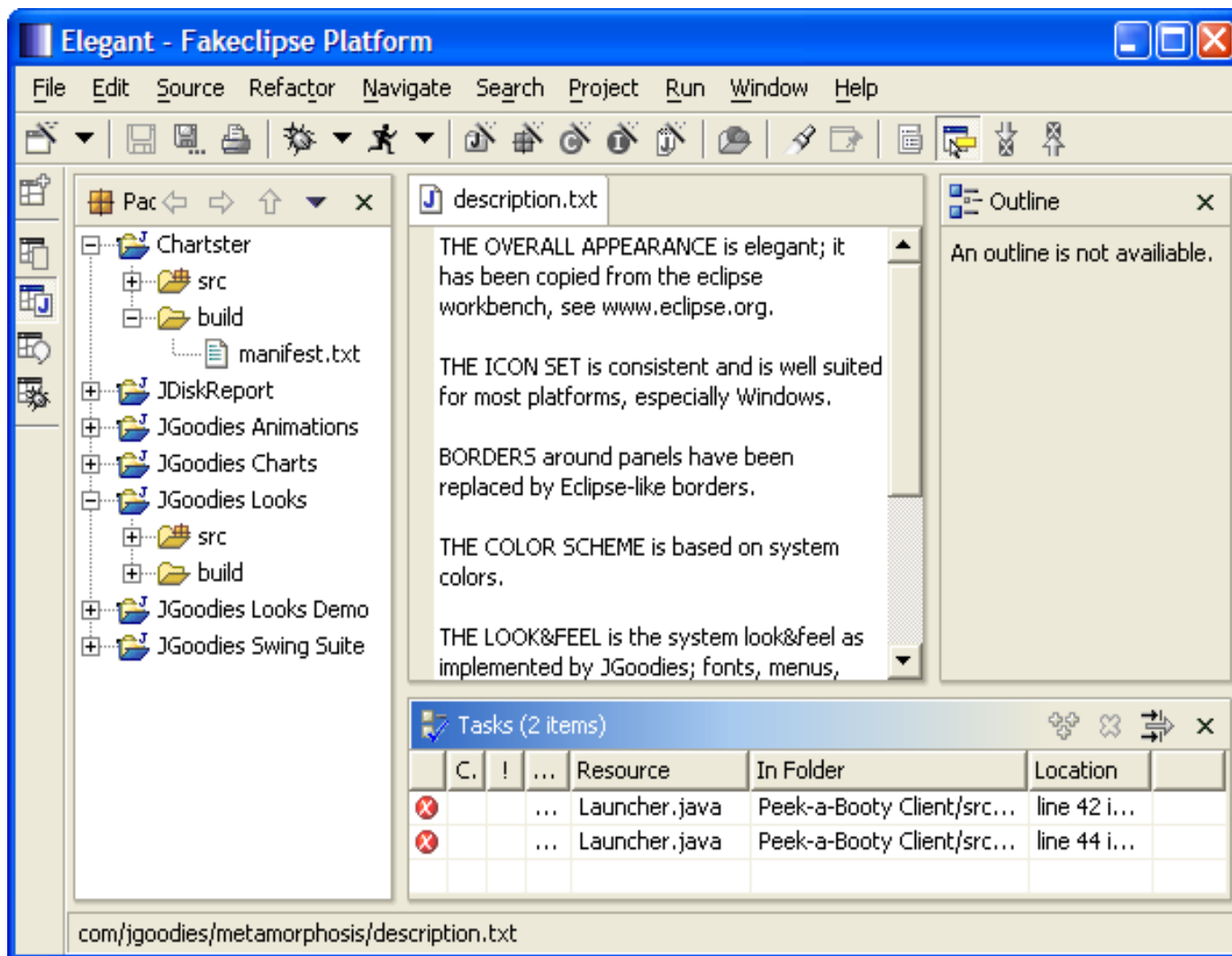


# Don't Break the Icon Design!

- Use icons that work well with the OS, w.r.t.
  - Design, size, color scheme
- Use a consistent icon set
- Remove questionable icons







# Agenda

Introduction

Don'ts

**Do's**

Tips and Tricks

Before and After

# Remove Clutter!

- Remove clutter and visual noise
- Remove duplicate borders
- Favor separators over (titled) borders
- Write short texts

# Reduce Design to Its Essence!

- Does it add information?
- Check every
  - Pixel
  - Line
  - Border
  - Element
  - Panel
  - Dialog

Struts Console - [C:\java\StrutsConsole\struts-config.xml]

File Tools Options Help

struts-config.xml [1.0]

- Struts Config
  - Data Sources
  - Form Beans
  - Global Forwards
  - Action Mappings
    - /editRegistration
    - /editSubscription
    - /logout
    - /login
    - /saveRegistration
    - /saveSubscription**
    - /tour
    - /admin/addFormBean
    - /admin/addForward
    - /admin/addMapping
    - /admin/reload
    - /admin/removeFormBean
    - /admin/removeForward
    - /admin/removeMapping

**Action**

Path: /saveSubscription

Parameter:

Default:  (for unknown)

**Type:**

Forward:

Include:

Form Bean Forwards Properties

subscriptionForm

Validate:

Input:

Scope: request

Prefix:

Attribute:

Suffix:

Editor Source



Home - procars.net

Datei Bearbeiten Wechseln Start Verwaltung Hilfe

Schnellstart

- ▷ Angebote und Tarife
- ▷ Buchungen
- ▷ Luftfrachtpapiere
- ▷ Seefrachtpapiere
- ▷ Nettopreise

Suchen

Alle Kategorien

Dokument beginnt mit:

Search

Aufgaben

Termin	Beschreibung	Dokument
Heute	Zollanmeldung ausfüllen	Haus AWB FRA-12345678
! Heute	Buchung bestätigen	Master AWB 020-12345675
! Morgen	DGR Dokumente vervollständigen	Sendung 3216
Morgen	Manifest anlegen	Master AWB 020-12345675
Morgen	Zulieferer anrufen: Güter beschädigt	Purchase Order 12345
17.05.03	Kunden anrufen: Angebot bestätigen	Angebot 43-03
21.05.03	Rechnungen drucken	Sendung 18761

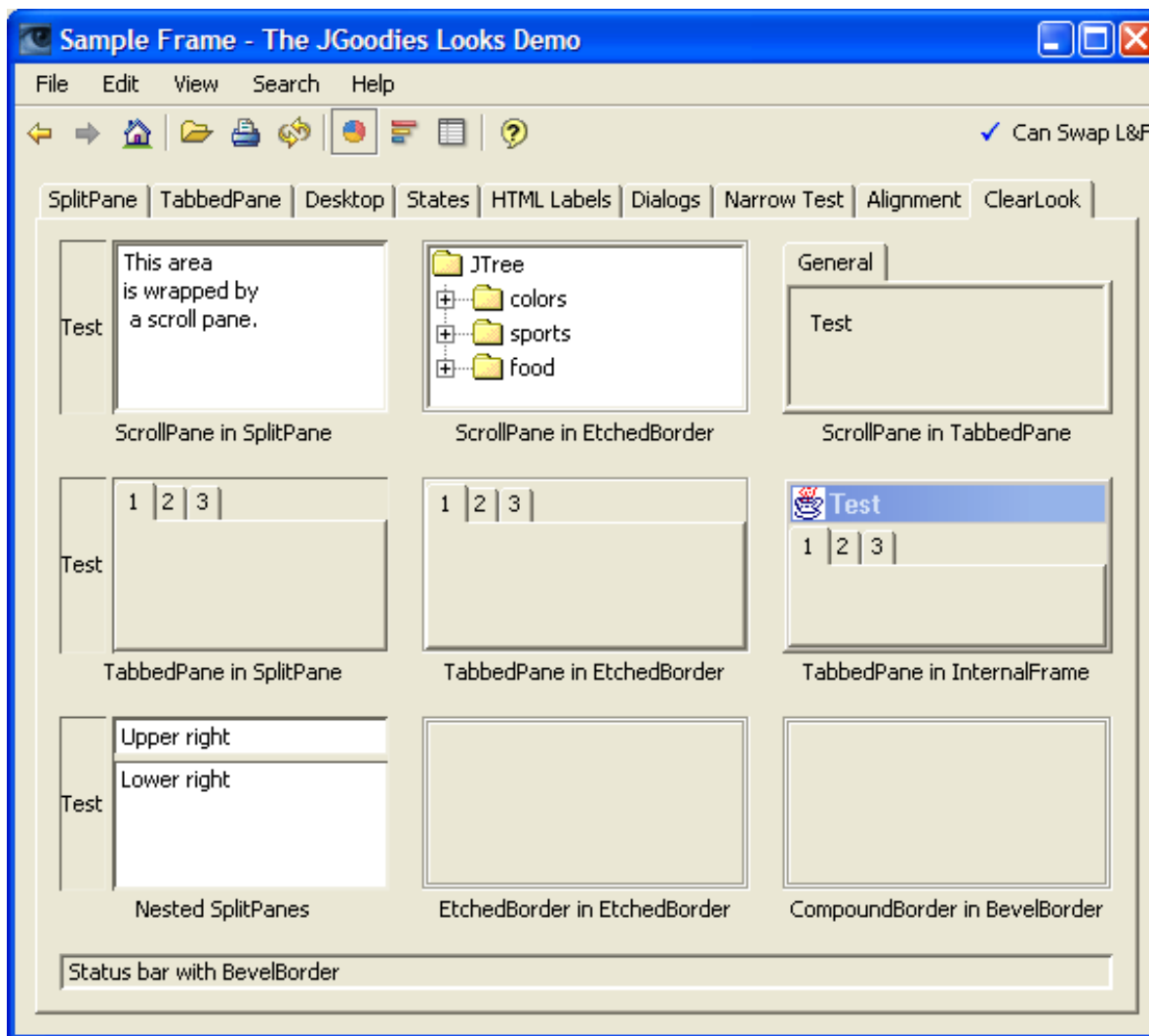
Verlauf

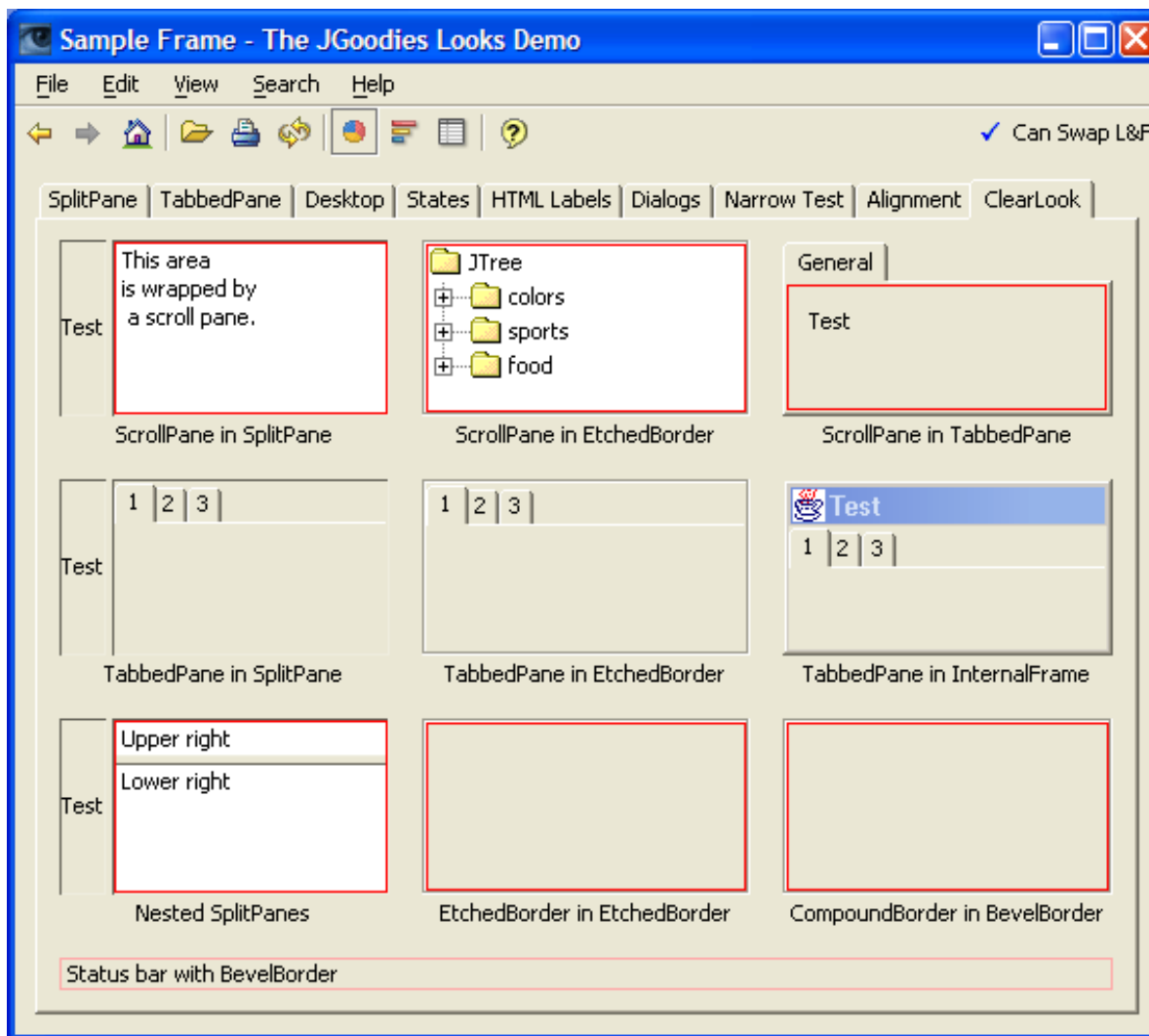
Datum	Dokument
Heute	Haus AWB FRA-12345678
Heute	Master AWB 020-12345675
Gestern	Sendung 3216
Gestern	Master AWB 020-12345675
Gestern	Angebot 43-03
Gestern	Purchase Order 12345
11.05.03	Master AWB 050-1267954
07.05.03	Sendung 18761

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# Critical Components

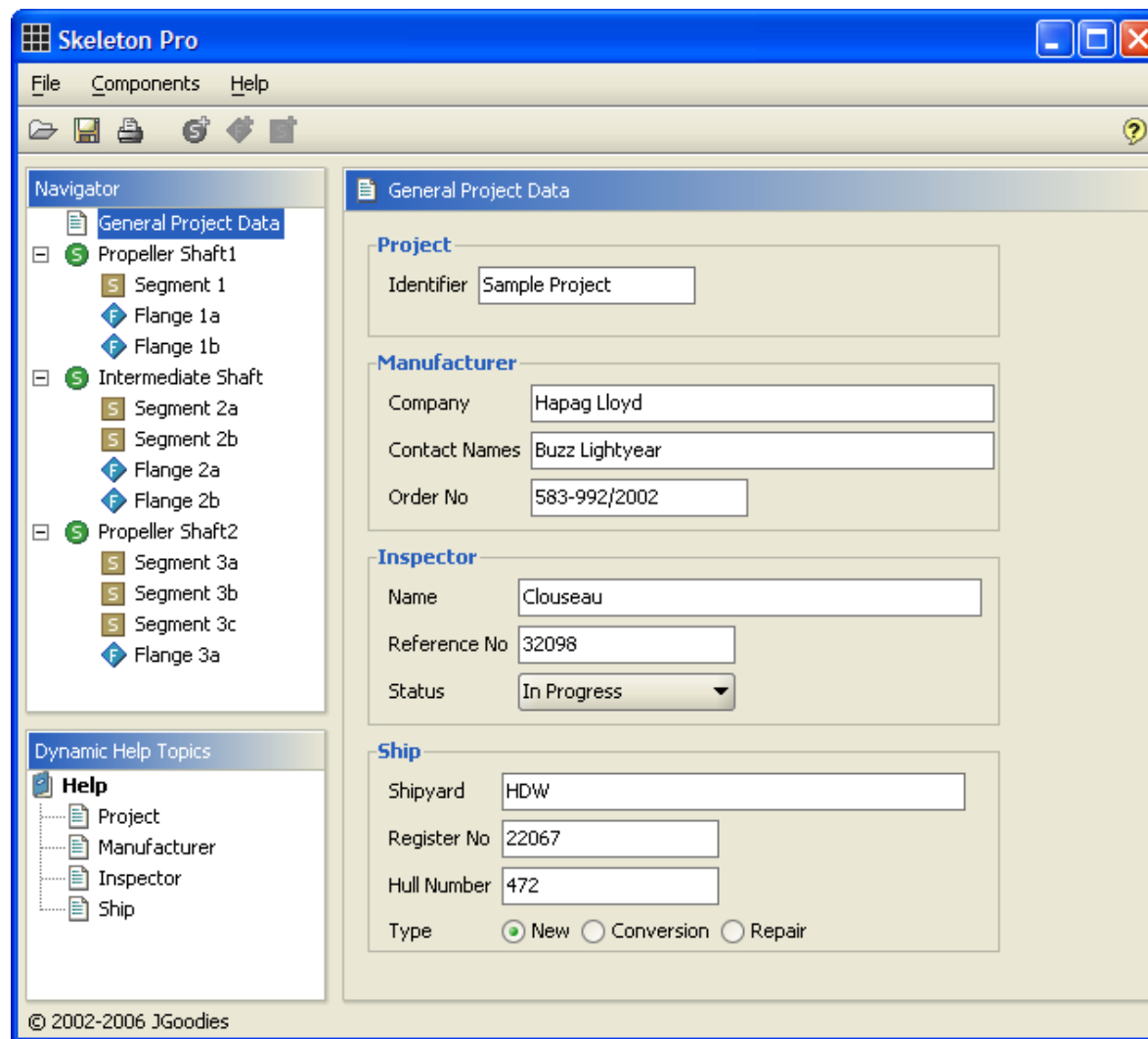
- Remove unnecessary JSplitPane borders
- Remove unnecessary JScrollPane borders
- Avoid nested borders
- Avoid BevelBorders
- Avoid TitledBorders





# Use TitledBorder Carefully!

- Often has 3 unnecessary lines
- Difficult to align
- Difficult to align its content
- Favor separators over TitledBorders
- If you need TitledBorders, don't nest them!



☰ **Skeleton Pro**

File Components Help

📁 💾 🖨 ⚙ ↶ 🗑 ?

☰ Navigator

- 📄 General Project Data
- ☐ 🟢 Propeller Shaft1
  - 🟡 Segment 1
  - 🔵 Flange 1a
  - 🔵 Flange 1b
- ☐ 🟢 Intermediate Shaft
  - 🟡 Segment 2a
  - 🟡 Segment 2b
  - 🔵 Flange 2a
  - 🔵 Flange 2b
- ☐ 🟢 Propeller Shaft2
  - 🟡 Segment 3a
  - 🟡 Segment 3b
  - 🟡 Segment 3c
  - 🔵 Flange 3a

📄 General Project Data

**Project** \_\_\_\_\_

Identifier

**Manufacturer** \_\_\_\_\_

Company

Contact

Order No

**Inspector** \_\_\_\_\_

Name

Reference No

Status

**Ship** \_\_\_\_\_

Shipyard

Register No

Hull Numbers

Type  New  Conversion  Repair

📄 Dynamic Help Topics

- 📄 **Help**
- 📄 Project
- 📄 Manufacturer
- 📄 Inspector
- 📄 Ship

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☰ **Skeleton Pro**

File
Components
Help

📁 💾 🖨 ⚙ ↶ 🗑 ?

Navigator

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  - 🟡 Segment 2a
  - 🟡 Segment 2b
  - 🔵 Flange 2a
  - 🔵 Flange 2b
- ☐ 🟢 Propeller Shaft2
  - 🟡 Segment 3a
  - 🟡 Segment 3b
  - 🟡 Segment 3c
  - 🔵 Flange 3a

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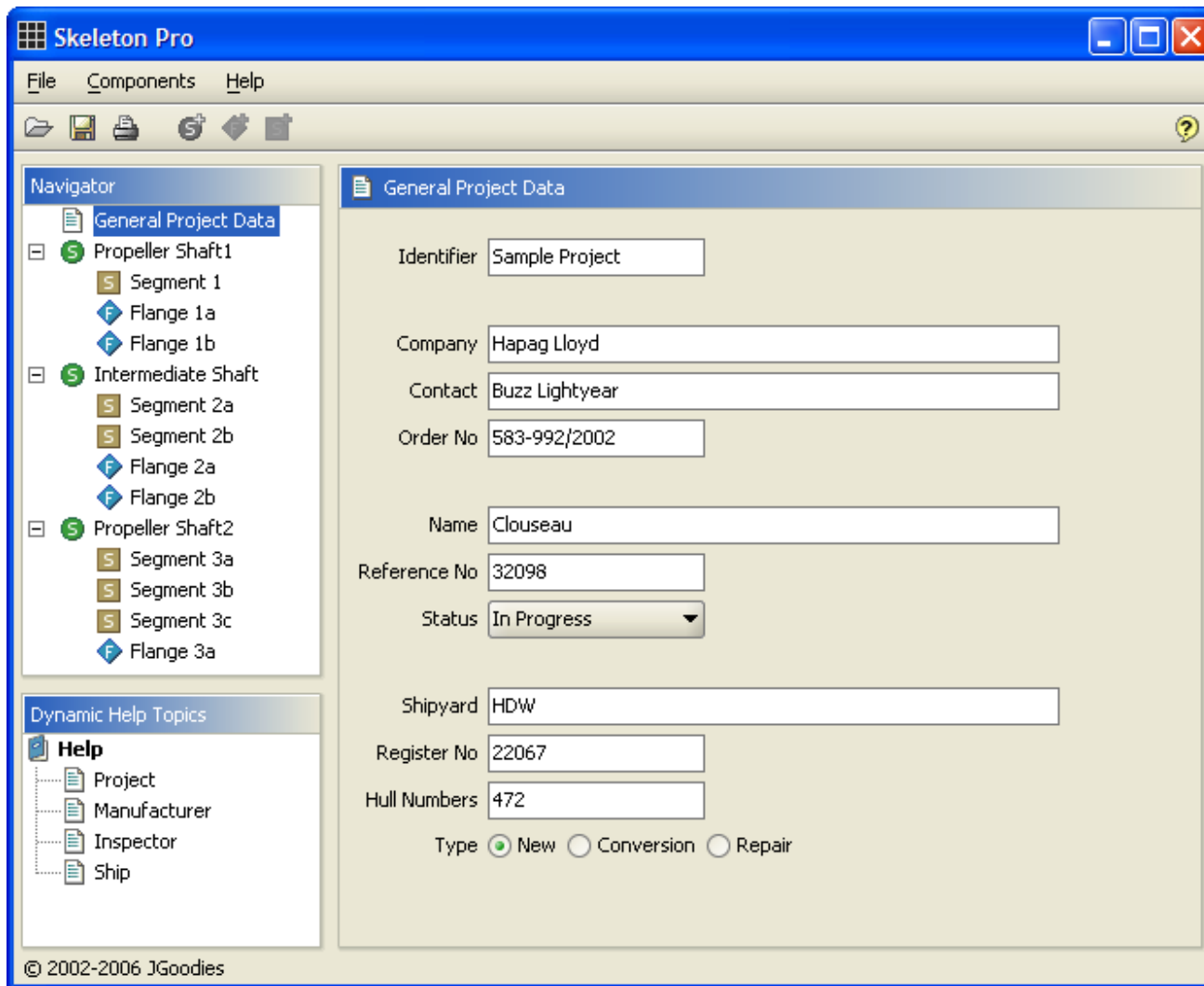
Register No

Hull Numbers

Type  New  Conversion  Repair

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**JSDL :: Find and repla...**

Find:

Replace with:

**Direction**

Forward  
 Backward

**Scope**

All  
 Selection

**Options**

Case sensitive     Wrap search  
 Whole word     Incremental

Find    Replace

Replace/Find    Replace All

**JSDL :: Find and replace p...**

Find:

Replace with:

Direction:  Forward  
 Backward

Scope:  All  
 Selection

Options:  Case sensitive     Wrap search  
 Whole word     Incremental

Find    Replace



Replace/Find    Replace All

# Add Negative Space!
















- White space is not wasted space
- It's a powerful tool for design
- Isolate and separate groups
- Wrap components with white space
- Favor white space over separators

**Skeleton Pro** [Minimize] [Maximize] [Close]

File Components Help

**Navigator**

- [-]  General Project Data
- [-]  Propeller Shaft1
  -  Segment 1
  -  Flange 1a
  -  Flange 1b
- [-]  Intermediate Shaft
  -  Segment 2a
  -  Segment 2b
  -  Flange 2a
  -  Flange 2b
- [-]  Propeller Shaft2
  -  Segment 3a
  -  Segment 3b
  -  Segment 3c
  -  Flange 3a

**General Project Data**

**Project**

Identifier

**Manufacturer**

Company

Contact

Order No

**Inspector**

Name

Reference No

Status

**Ship**






Shipyards

Register No

Hull Numbers

Type  New  Conversion  Repair

**Dynamic Help Topics**

-  **Help**
- .....  Project
- .....  Manufacturer
- .....  Inspector
- .....  Ship

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☰ **Skeleton Pro**

File Components Help

📁 💾 🖨 ⚙ ↶ 🗑
?

☰ **Navigator**

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Shipyard

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- 📄 Ship

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# Align!

- Align component bounds
- Consider using a grid and grid system

## Difficult

- Align fonts along the baseline
- Align component bounds **and** the baseline

**Adressen pflegen** [Minimiere] [Maximiere] [Schließe]

Daten Adresse ?

Kennung: 
 Anrede:

Name1: 
 Telefon1:

Name2: 
 Telefon2:

Name3: 
 Telefax:

Straße: 
 EMail:

PLZ/Ort:  
 privat

Personen | Notizen | Termine | Schlagworte | Bemerkung

Name	Funktion	Durchwahl	Privat
Karl Schneider	Beratung	030 - 2801 - 1000	<input type="checkbox"/>
Karin Müller	Sekretariat	030 - 2801 - 0	<input checked="" type="checkbox"/>

S Segment 1

---

**Segment**

Identifier

---

PTI [kW]       Power [kW]

len [mm]

**Diameters**

da [mm]       di [mm]

da2 [mm]       di2 [mm]

R [mm]       D [mm]

**Criteria**

Location       k-factor

Connection

---

Holes  Has radial holes

Slots  Has longitudinal slots



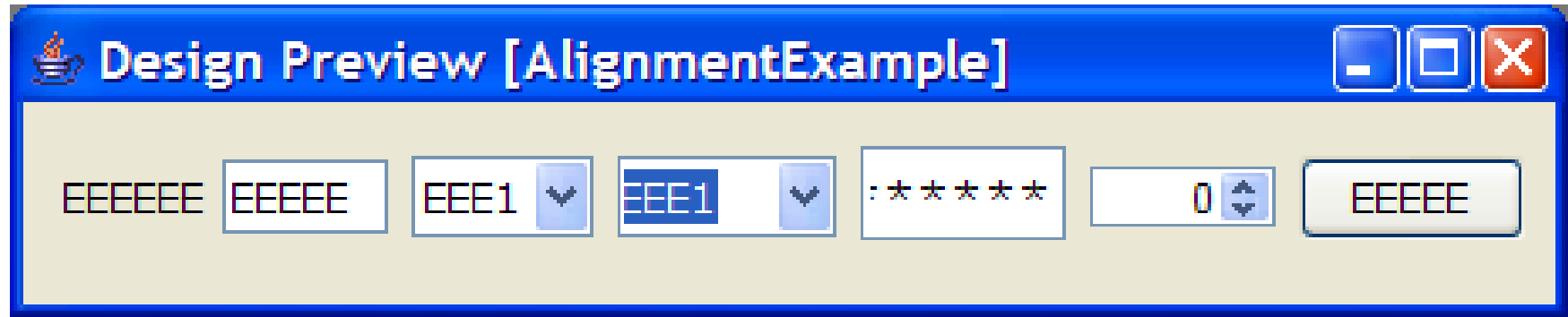
# Beware Inconsistent Micro Design

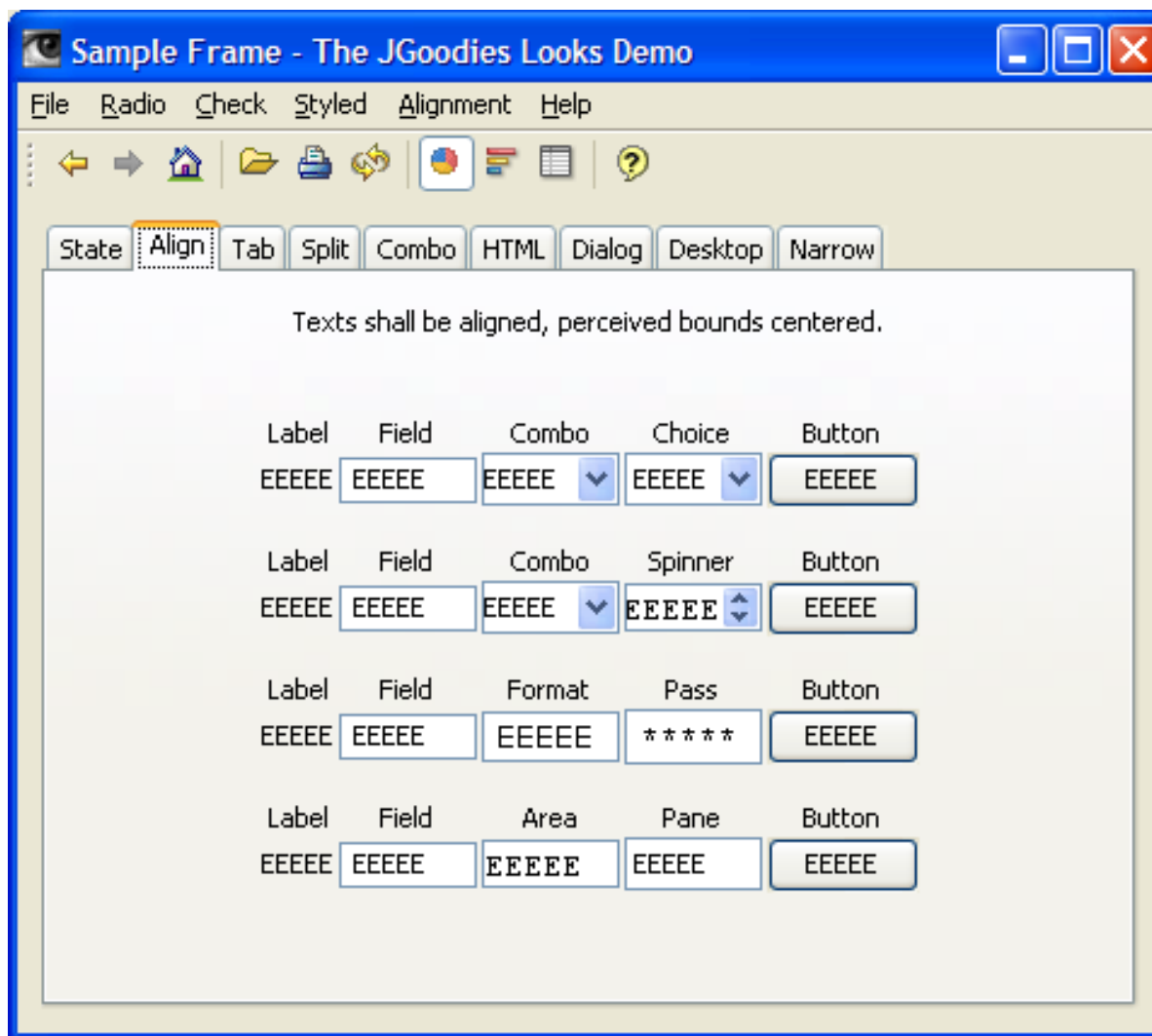
- Inconsistent component sizes
- Inconsistent component insets
- Font baselines not aligned, or component bounds
- Poor or wrong pseudo 3D effects

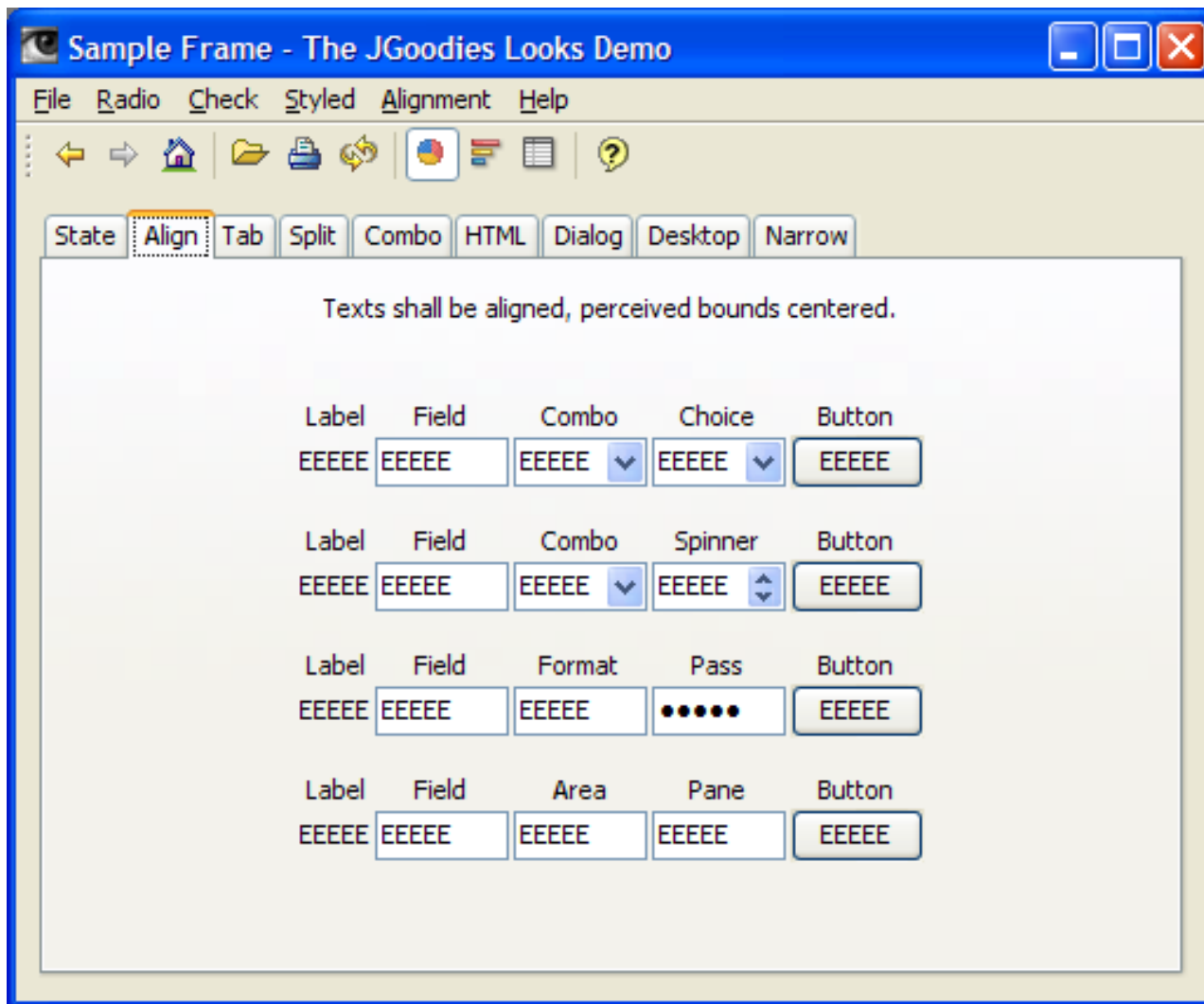
# .Net 2.0



# Java (Font baselines aligned with Matisse)







# Group and Relate!

- Learn to group
- Make similar content equally wide
- Make similar content equally high
- But again: avoid the TitledBorder

S Segment 1			
<b>Segment</b>			
Identifier	Segment 1		
PTI [kW]		Power [kW]	
len [mm]			
<b>Diameters</b>			
da [mm]		di [mm]	
da2 [mm]		di2 [mm]	
R [mm]		D [mm]	
<b>Criteria</b>			
Location	Propeller nut thread ▼	k-factor	
Connection	C45E, ReH=600 ▼		
Holes	<input checked="" type="checkbox"/> Has radial holes		
Slots	<input type="checkbox"/> Has longitudinal slots		

S Segment 1

---

**Segment**

Identifier

PTI [kW]  Power [kW]

len [mm]

---

**Diameters**

da [mm]  di [mm]

da2 [mm]  di2 [mm]

R [mm]  D [mm]

---

**Criteria**

Location  k-factor

Connection

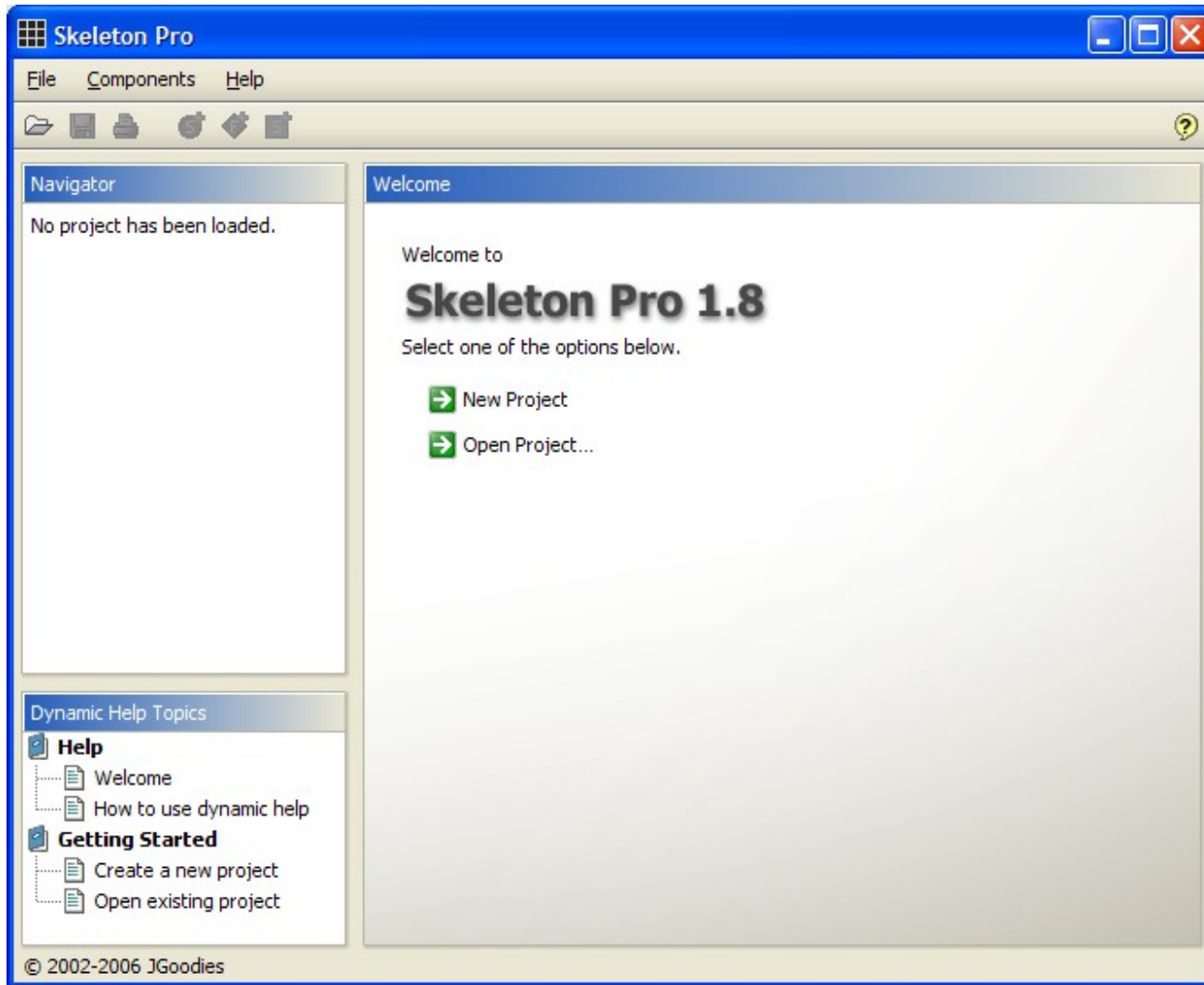
Holes  Has radial holes

Slots  Has longitudinal slots




# Balance the Design!

- Learn about perceived axes and visual weight
- Find the optical balance point
- Consider to center a single view
- Consider to use symmetry



La Langsamfahrstellen

Die Bahn 

Willkommen in der

# La-Bearbeitung

Geben Sie Ihren Namen und Kennwort ein  
und drücken Anmelden

Name

Kennwort

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# Be Consistent!

- Button sizes, order, gaps
- Design of dialogs, panels, button bars
- Micro design of the L&F components
- Use icons that 'work' with the L&F colors
- Use a few fonts and font sizes only

**LimeWire: Verbindung zum Gnutella-Netzwerk wird hergestellt**

[Suchen](#) | [Monitor](#) | [Dateisammlung](#)
LimeWire

Wählen Sie den Typ:

Alle	Audio
Bilder	Video
Dokumente	Programme

**Alle**

Dateiname

Suchwort:

Nr.	Qualität	Lizenz	Name	Art	Größe	Geschwindigkeit	Bitrate
<h3>Um zu beginnen</h3> <p>Um mit LimeWire zu beginnen, suchen Sie das Textfeld links, tippen sie einen Suchbegriff ein und klicken Sie auf den "Suchen" Knopf. Wenn Sie nur einen bestimmten Dateityp suchen (Musik, Video, usw.), können Sie die Resultate mit den Knöpfen oberhalb des Textfelds einschränken.</p>							

Downloads

Name	Größe	Status	Fortschritt	Geschwindigkeit	Zeit

[Klicken Sie hier, um "Open Source" und "Open Protocols" zu unterstützen.](#)
LimeWire Media Player

**1** LimeWire: Verbindung zum Gnutella-Netzwerk wird hergestellt

**2** Datei Ansicht Navigation Ressourcen Werkzeuge Hilfe

**3** Suchen Monitor Dateisammlung

**4** LimeWire

Wählen Sie den Typ:

- Alle **5**
- Audio
- Bilder
- Video
- Dokumente
- Programme

Dateiname

Suchen

**6** Um zu beginnen

Um mit LimeWire zu beginnen, suchen Sie das Textfeld links, tippen sie einen Suchbegriff ein und klicken Sie auf den "Suchen" Knopf. Wenn Sie nur einen bestimmten Dateityp suchen (Musik, Video, usw.), können Sie die Resultate mit den Knöpfen oberhalb des Textfelds einschränken. **7**

Download Rechner durchsuchen Stop Junk

Downloads

Name	Größe	Status	Fortschritt	Geschwindigkeit	Zeit

Suchwort Was gibt's Neues

Direkte Verbindung

**8** +magnetmix.com+

Abbrechen Fortsetzen Pause Vorschau Durchsuchen **9**

Klicken Sie hier, um "Open Source" und "Open Protocols" zu unterstützen.

LimeWire Media Player

**JDiskReport Setup**

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**JDiskReport**

**Send Feedback: Execution Warning**  
You can send feedback to help improve this tool. Click on the 'Contents' tab to see the mail contents.

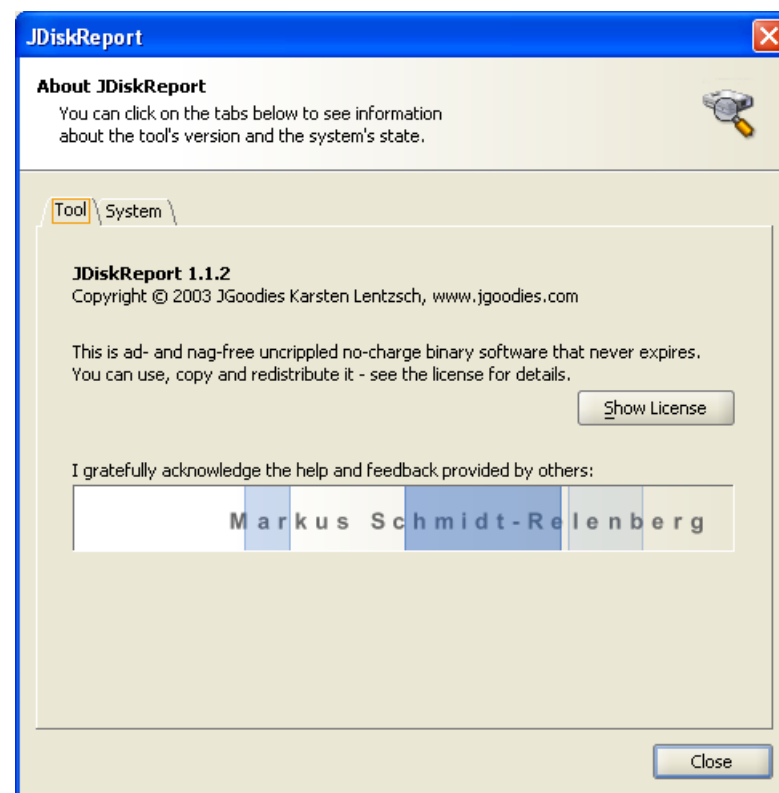
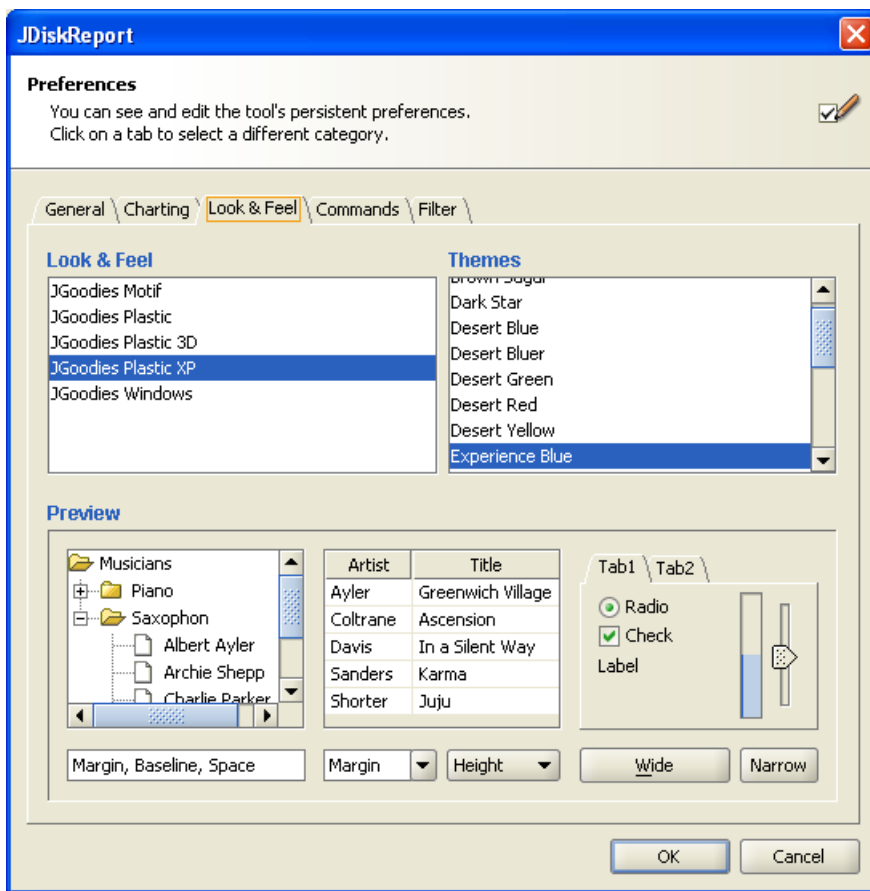


Help \ Mail Contents \

By pressing the "Copy to Clipboard" button, the Execution Warning will be copied to the system clipboard. You can then paste the clipboard contents to your mail editor.

Send the mail to:  
support@JGoodies.com


with subject:  
Execution Warning





**Skeleton Pro** [ - ] [ □ ] [ × ]

File Components Help



**Navigator**

- General Project Data
- Propeller Shaft1
  - Segment 1
  - Flange 1a**
  - Flange 1b
- Intermediate Shaft
  - Segment 2a
  - Segment 2b
  - Flange 2a
  - Flange 2b
- Propeller Shaft2
  - Segment 3a
  - Segment 3b
  - Segment 3c
  - Flange 3a

**Flange 1a**

**Flange**

Identifier

PTI/kW  Power/kW

s/mm

**Diameters**

da/mm  di/mm

da2/mm  di2/mm

R/mm  D/mm

**Criteria**

Location  k-factor

**Bolts**

Material

Numbers

ds/mm

**Dynamic Help Topics**

- Help**
  - Flange
  - Diameters
  - Criteria
  - Bolts
- Samples**
  - Sample1

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**Skeleton Pro** [Window Title Bar]

File Components Help

**Navigator**

- [-] General Project Data
- [+] S Propeller Shaft1
  - S Segment 1
  - F Flange 1a
  - F Flange 1b
- [-] S Intermediate Shaft
  - S Segment 2a
  - S Segment 2b
  - F Flange 2a
  - F Flange 2b
- [-] S Propeller Shaft2
  - S Segment 3a
  - S Segment 3b
  - S Segment 3c
  - F Flange 3a

S Propeller Shaft1

**Shaft**

Identifier

Power  Speed

Material  Ice Class

Length

**Comments**

Machinery

Inspection

**Dynamic Help Topics**

- [-] Help
  - [-] Shaft
  - [-] Comments
- [-] Samples
  - [-] Sample1
  - [-] Sample2

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**Skeleton Pro** [ - ] [ □ ] [ × ]

File Components Help

**Navigator**

- General Project Data
- Propeller Shaft1
  - Segment 1
  - Flange 1a**
  - Flange 1b
- Intermediate Shaft
  - Segment 2a
  - Segment 2b
  - Flange 2a
  - Flange 2b
- Propeller Shaft2
  - Segment 3a
  - Segment 3b
  - Segment 3c
  - Flange 3a

**Flange 1a**

**Flange**

Identifier

PTI/kW  Power/kW

s/mm

**Diameters**

da/mm  di/mm

da2/mm  di2/mm

R/mm  D/mm

**Criteria**

Location  k-factor

**Bolts**

Material

Numbers

ds/mm

**Dynamic Help Topics**

- Help**
  - Flange
  - Diameters
  - Criteria
  - Bolts
- Samples**
  - Sample1

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**F** Flange 1a

---

**Flange**

Identifier

PTI [kW]  Power [kW]

s [mm]

---

**Diameters**

da [mm]  di [mm]

da2 [mm]  di2 [mm]

R [mm]  D [mm]

---

**Criteria**

Location  k-factor

---

**Bolts**

Material

Numbers

ds [mm]

**S** Segment 1

---

**Segment**

Identifier

PTI [kW]  Power [kW]

len [mm]

---

**Diameters**

da [mm]  di [mm]

da2 [mm]  di2 [mm]

R [mm]  D [mm]

---

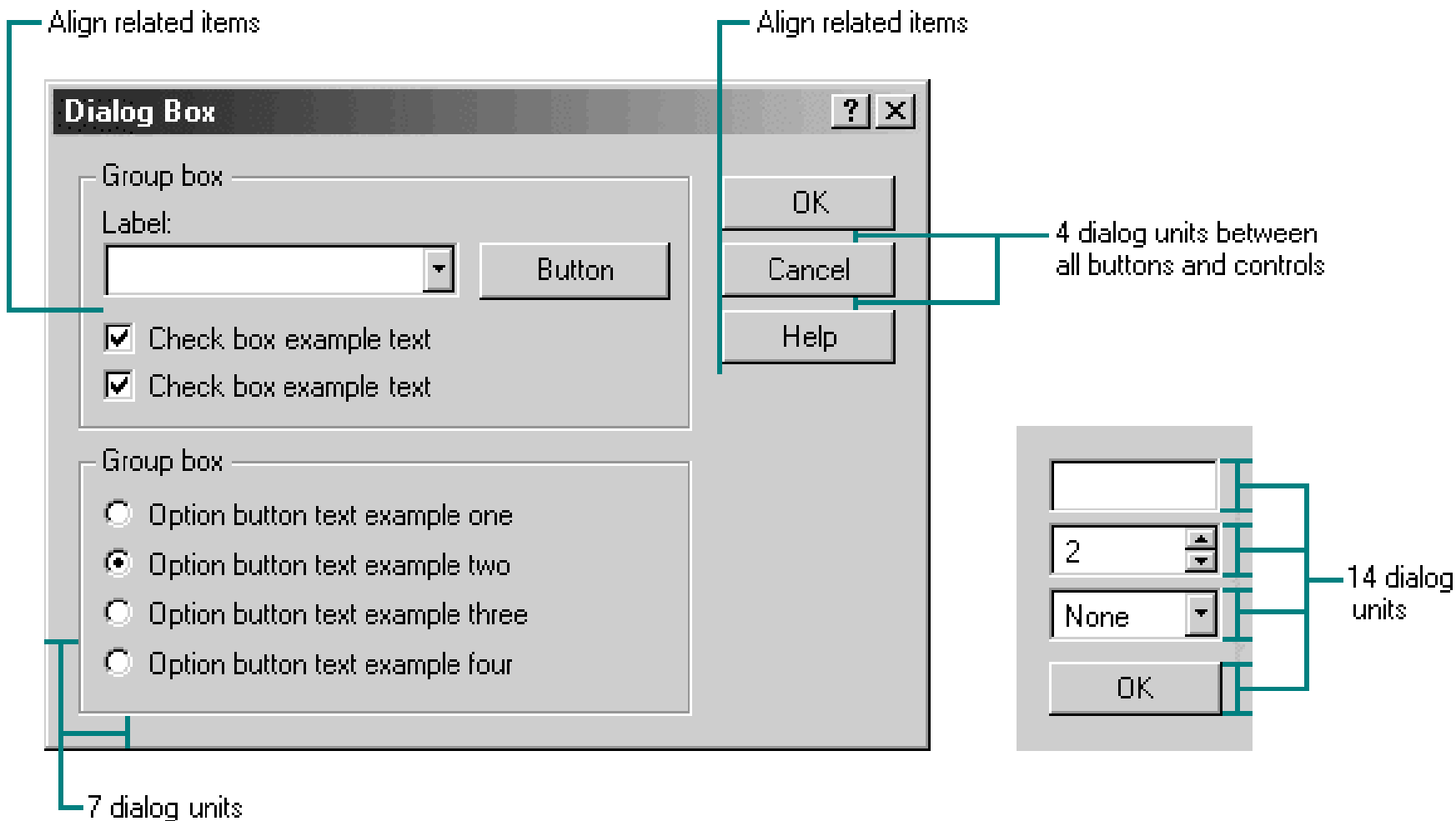
**Criteria**

Location  k-factor

Connection

Holes  Has radial holes

Slots  Has longitudinal slots



# Agenda

Introduction

Don'ts

Do's

**Tips and Tricks**

Before and After

# Use Contrast Effectively

- Equalize contrasts
- Add white space where necessary
- Avoid large dark areas
- Use large white panels judiciously (otherwise the user gets tired)
- Learn the squint test

# Use Aesthetic Aspect Ratios

- Stable aspect ratios
  - 1:1
  - 4:5
  - 4:3
  - 16:9
- Consistency: use a few aspect ratios





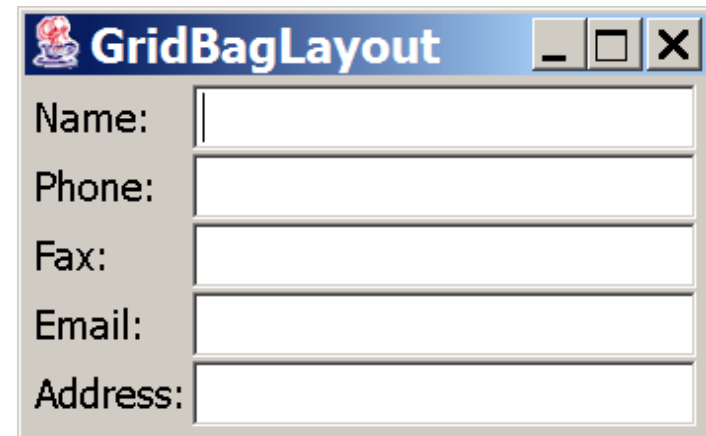
Unstable



Stable

# Scale with Font and Resolution (dpi)

- Otherwise layout does **not** retain proportions

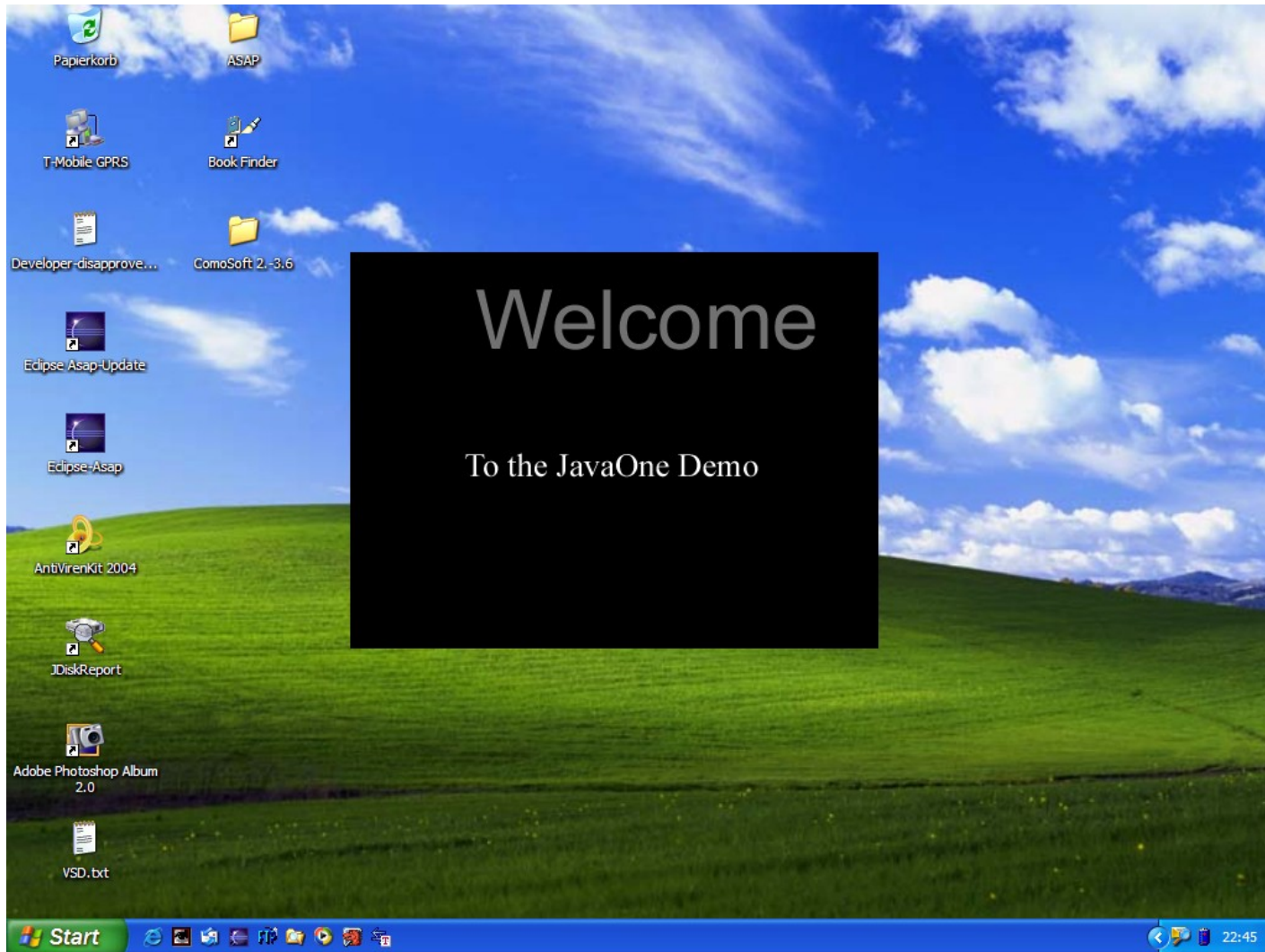



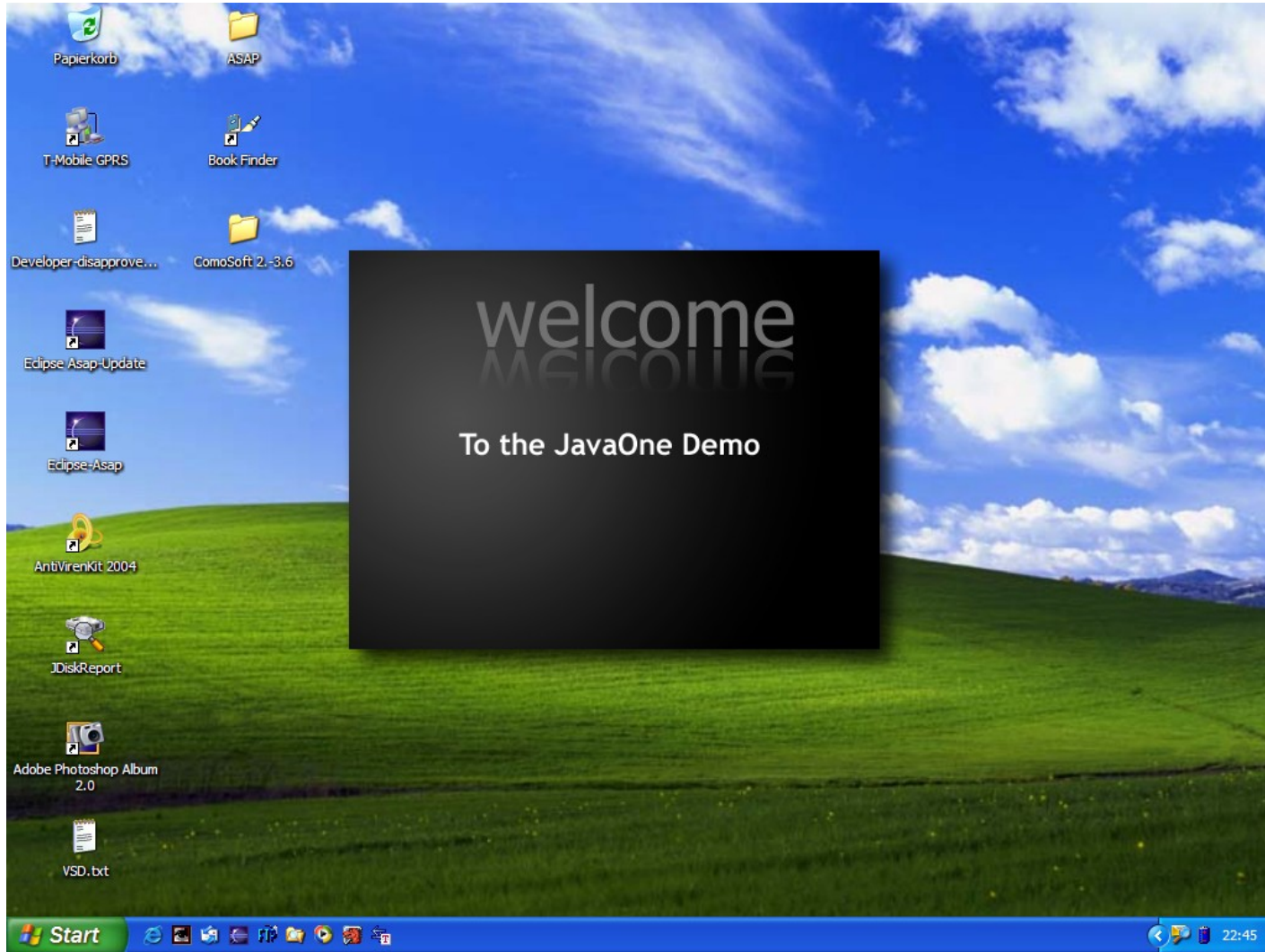
# Static vs. Flexible Design

- Again: reduce the design to its essence
- Prefer static to flexible design
- Use static design where possible
- Add flexibility where necessary
- Static, splitted, multi-splitted, docking, windows

# Let Users Enjoy Your Application

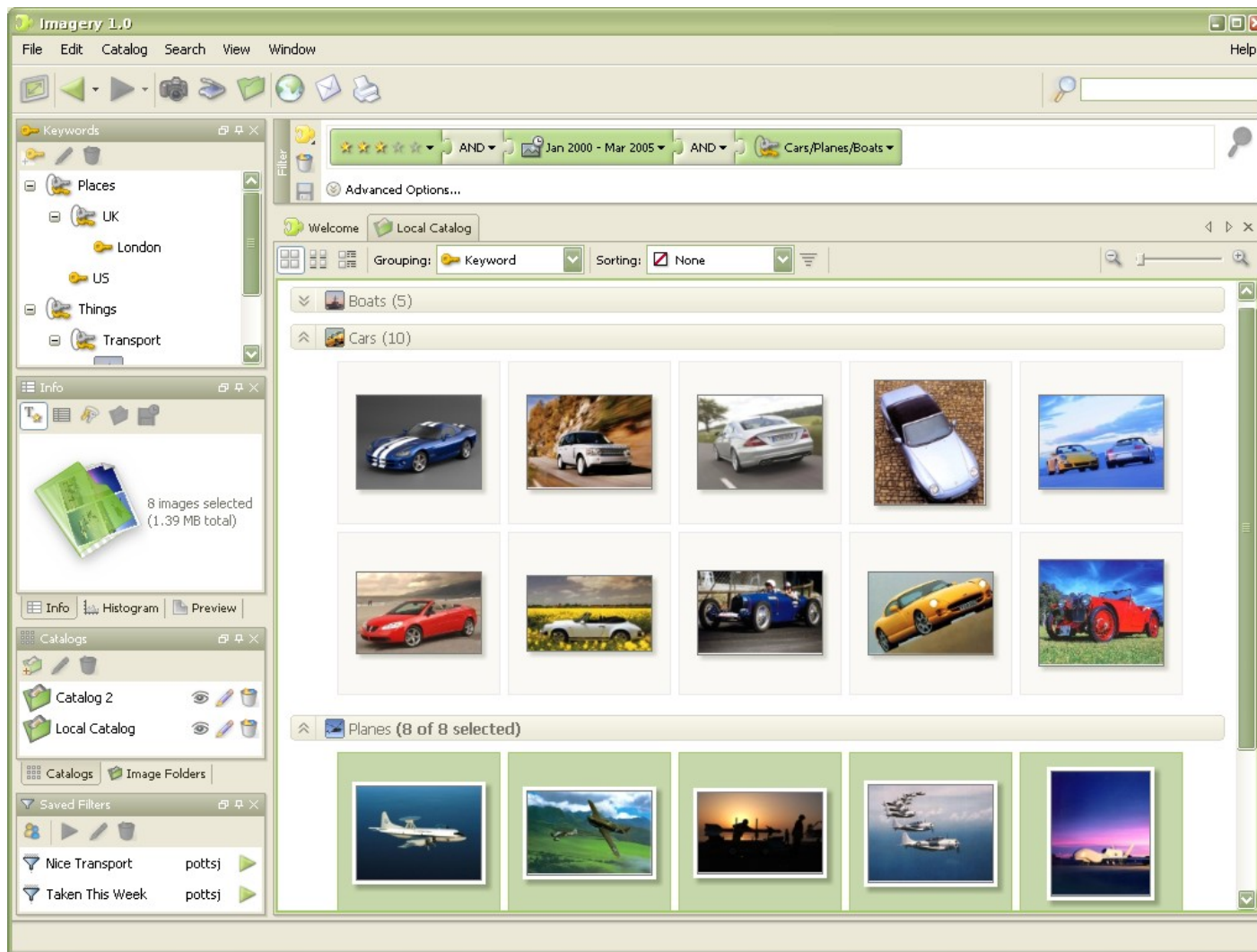
- Until now we've only reduced the UI
- Now you can carefully add
  - Color
  - Advanced typography
  - Images
  - Animation





# Benefit From the Powerful JFC

- Advanced graphics operations (Java 2D™)
- Translucency
- Glasspane
- Pluggable look and feel
- Enables high-level abstractions





# Agenda

Introduction

Don'ts

Do's

Tips and Tricks

**Before and After**

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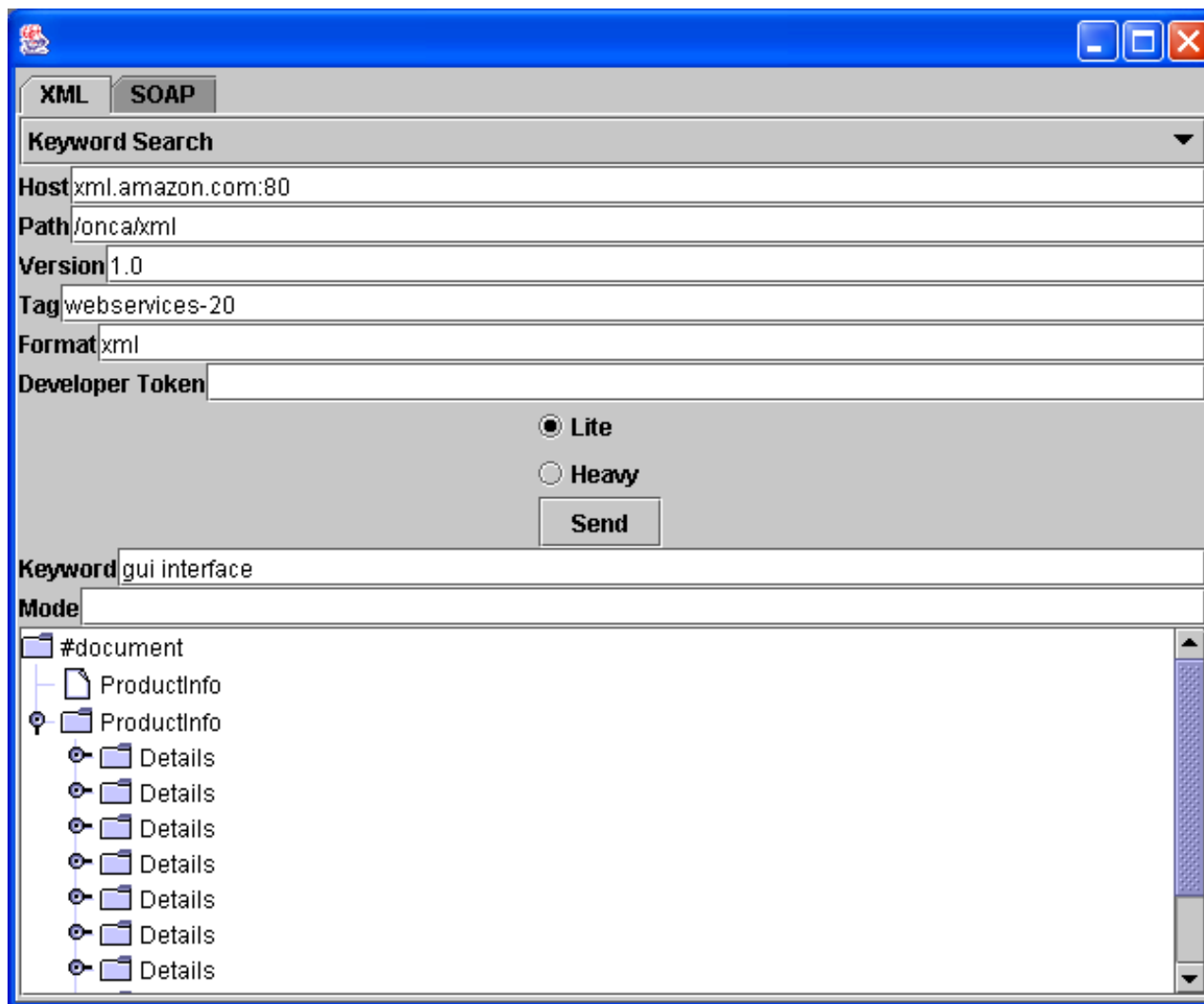
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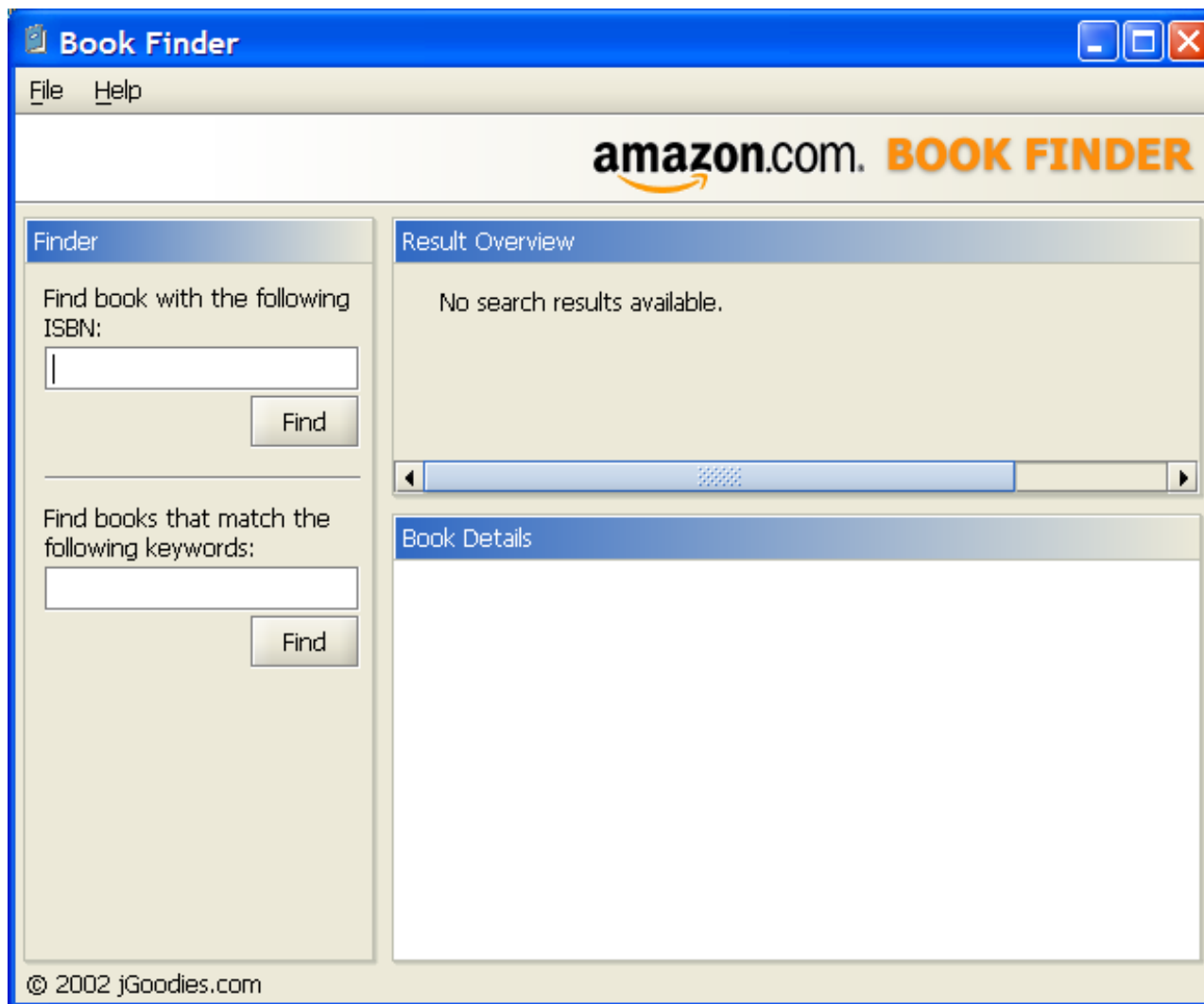
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< Back    Yes    No





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The Book of Hors D'Oeuvres and Canapes	Arno Schmidt, et al	\$34.97
<b>Collected Novellas: Collected Early Fiction 1949-1964</b>	Arno Schmidt, et al	<b>\$22.95</b>
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Nobodaddy's Children: A Trilogy (Schmidt, Arno, Selections...)	Arno Schmidt, et al	\$13.95
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Details X

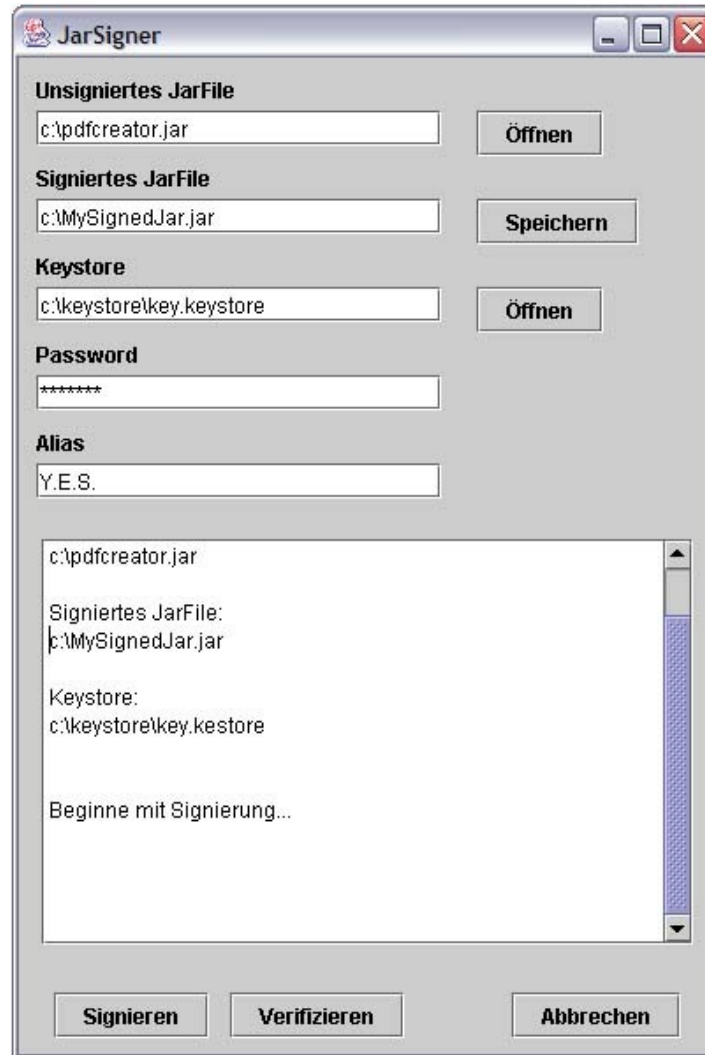


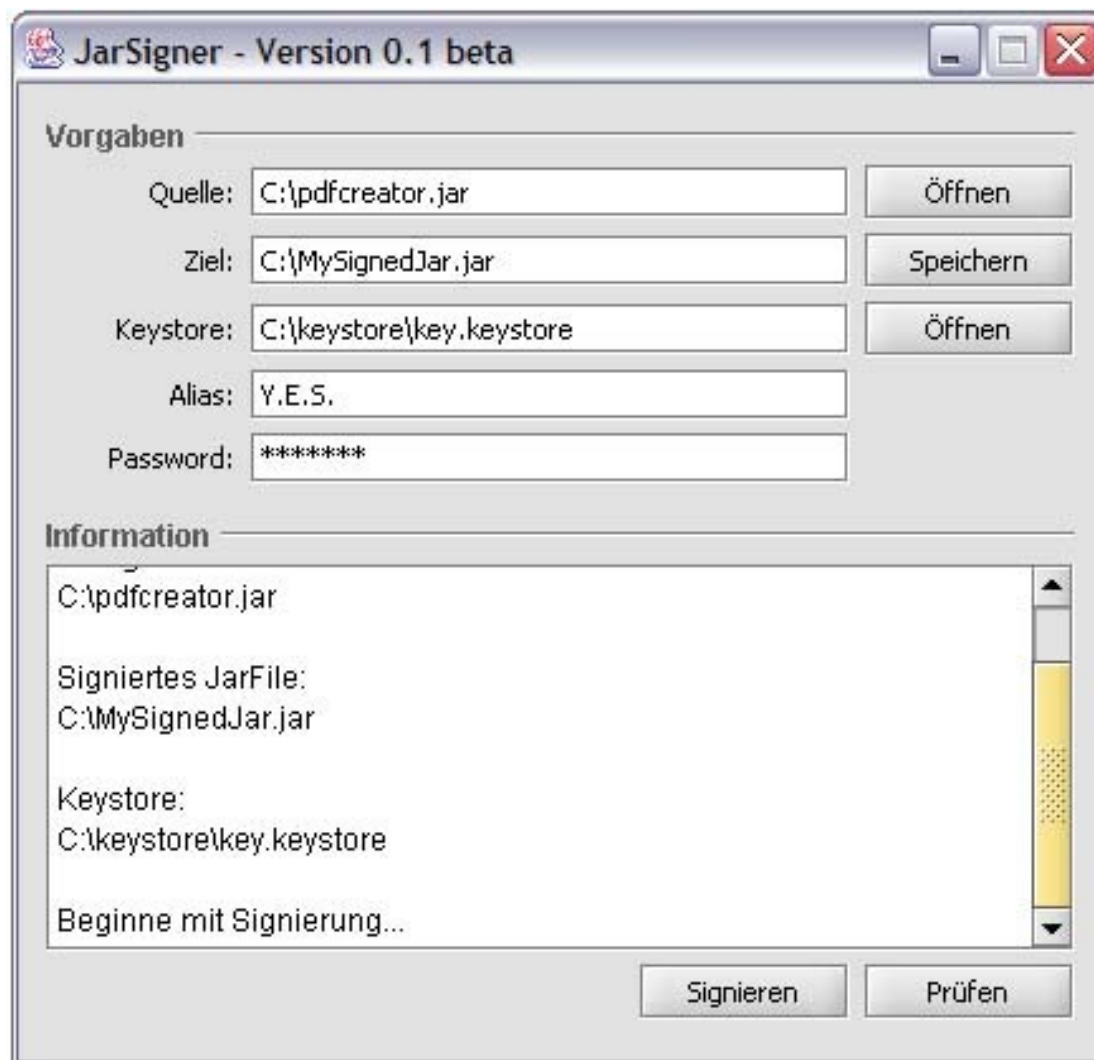
**Collected Novellas: Collected Early Fiction 1949-1964**

Arno Schmidt, John E. Woods  
 Dalkey Archive Pr  
 November, 1994  
 ISBN: 156478066X  
**\$22.95**

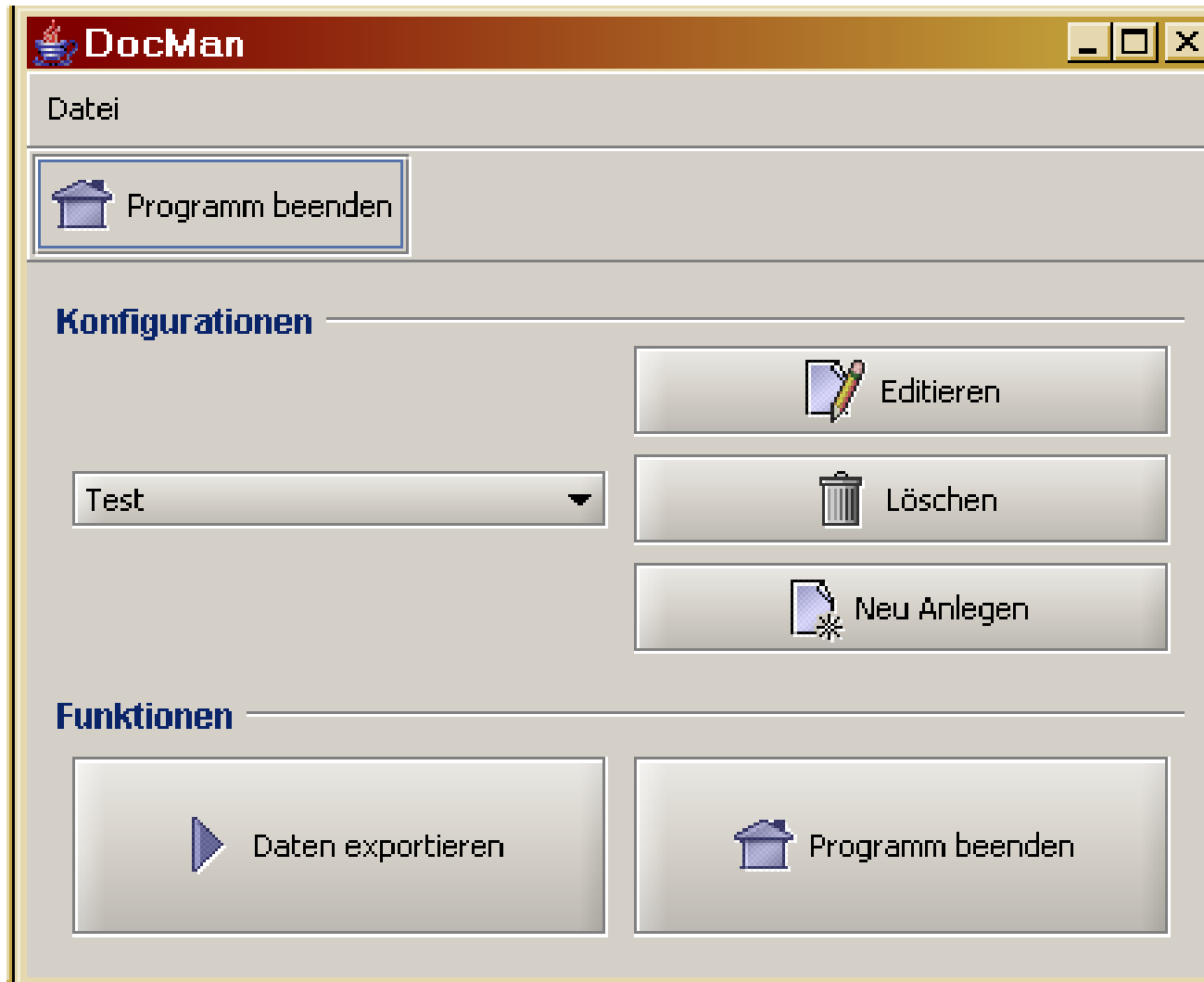
Overview
Reviews

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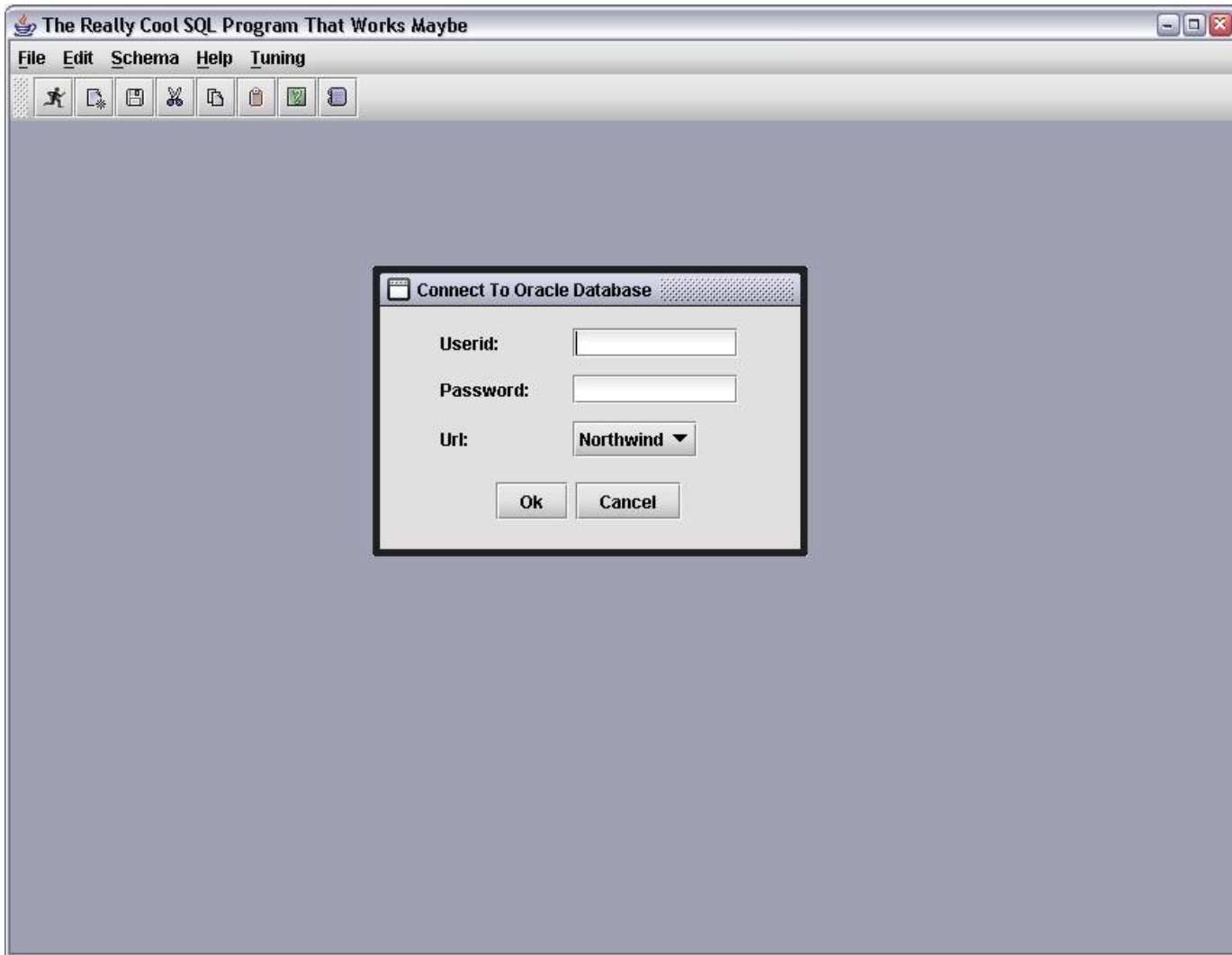


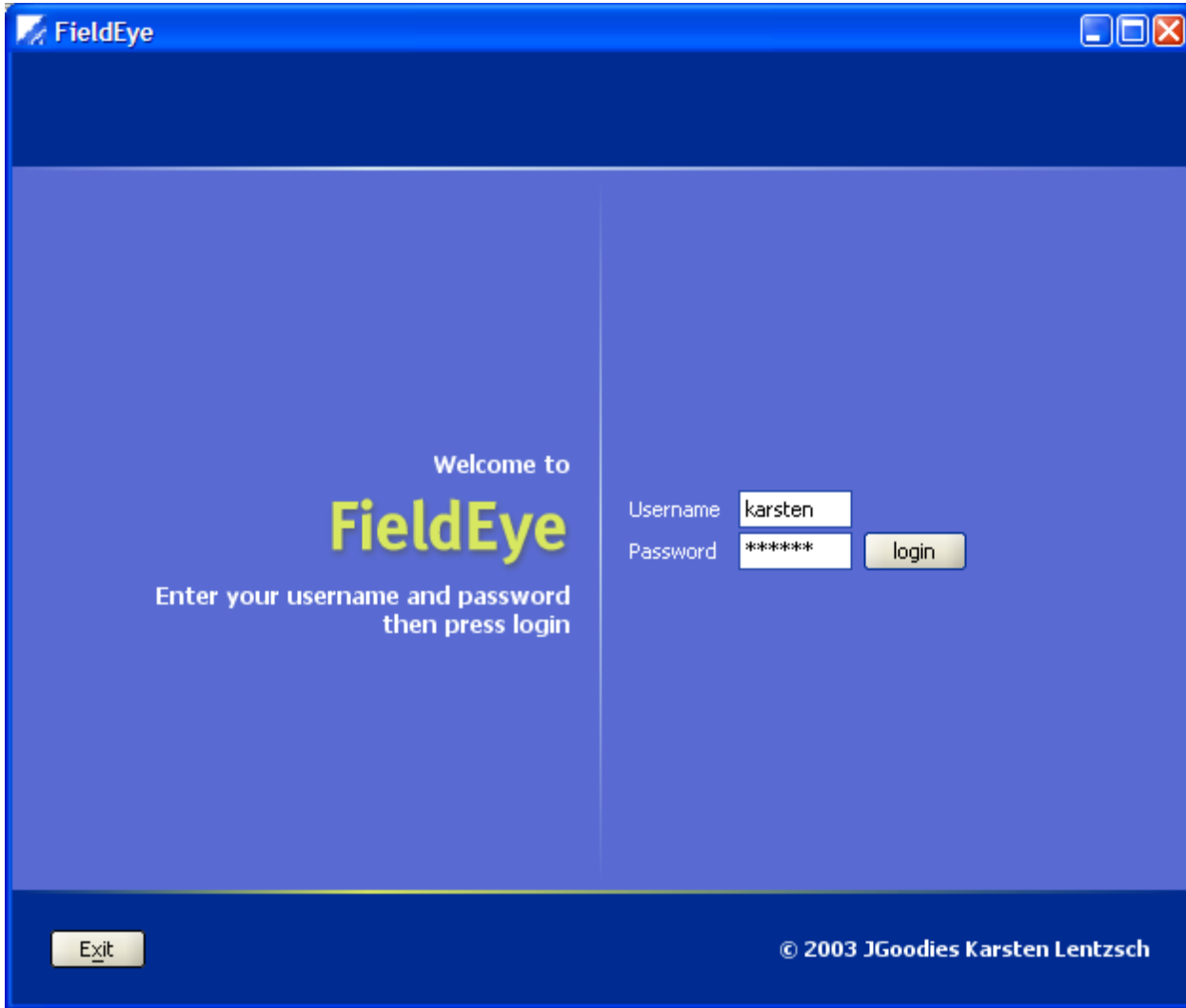




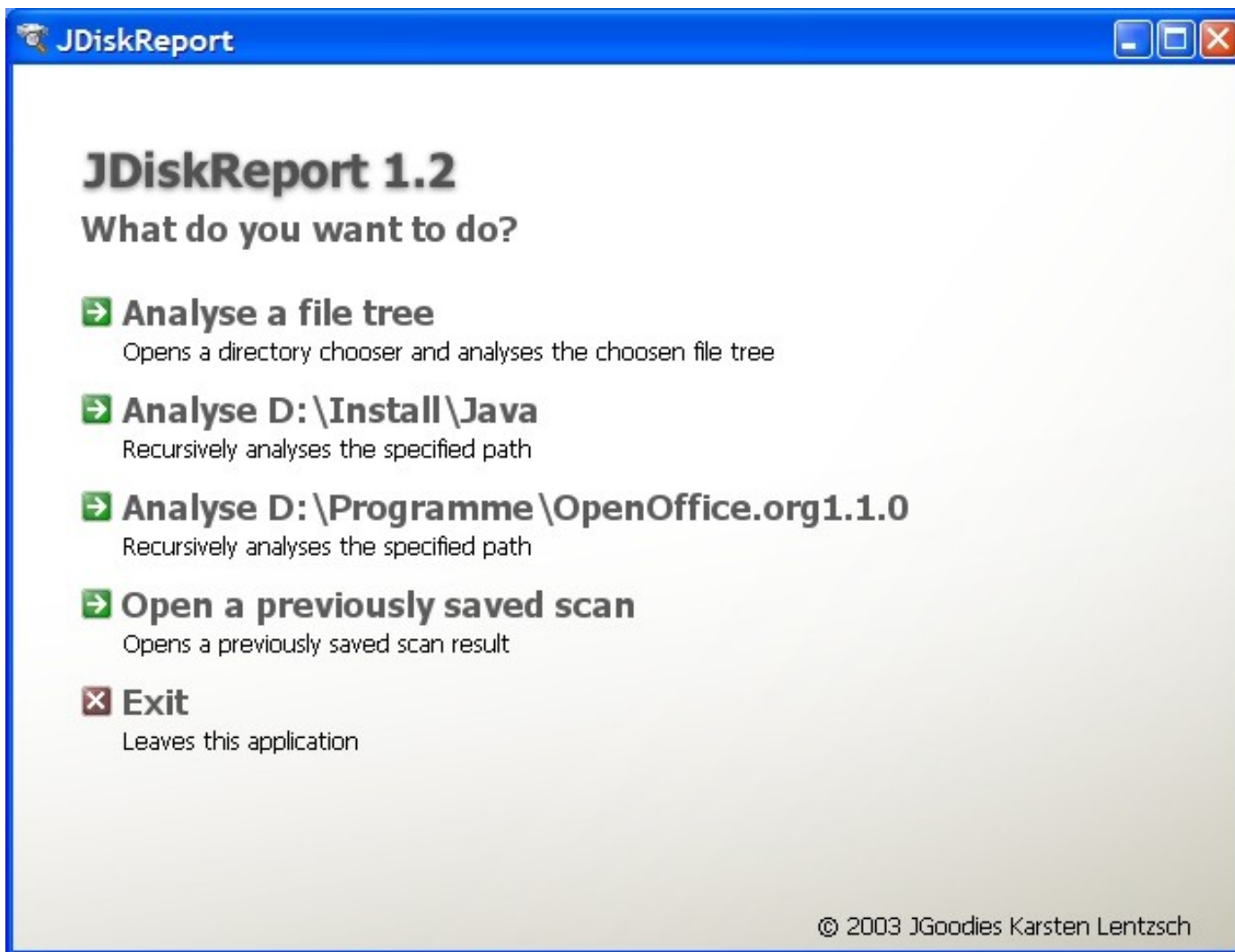


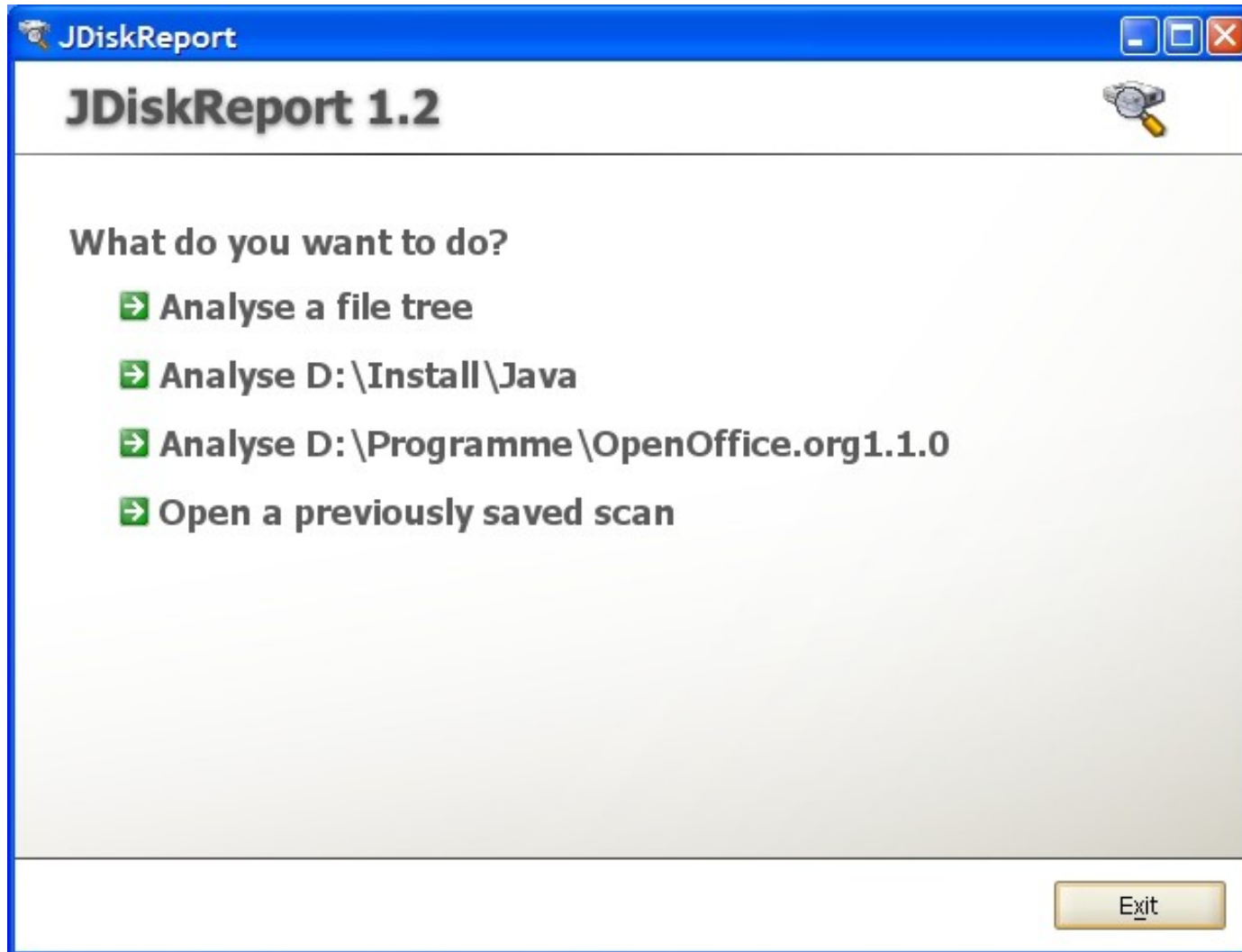












# welcome

What do you want to do?

- ➔ Install JGoodies(R) Code Name "Wronghorn"
- ➔ Perform additional tasks

Exit



# Summary

- Use appropriate fonts, colors, icons
- Remove clutter—reduce to its essence
- Align, group, relate, balance
- Be consistent

# For More Information

## Sessions and BOFs

- TS-1548 Extreme GUI Makeover: Lookin' Better
- BOF-0139 Advanced Layout Techniques
- BOF-0425 Designing Elegant Desktop Applications

# For More Information

## Web Resources

- Alloy Look&Feel—[www.incors.com](http://www.incors.com)
- JGoodies Looks—[looks.dev.java.net](http://looks.dev.java.net)
- Tango icons—[www.tango-project.org](http://www.tango-project.org)
- Eclipse icons—[www.eclipse.org](http://www.eclipse.org)
- Matisse visual designer—[www.netbeans.org](http://www.netbeans.org)
- JGoodies Forms—[forms.dev.java.net](http://forms.dev.java.net)

# For More Information

## Books

- Scott Delap: *Desktop Java Live*
- Mullet & Sano: *Designing Visual Interfaces*
- Jeff Johnson: *GUI Bloopers*

## Presentations

- JGoodies Articles—[www.JGoodies.com/articles](http://www.JGoodies.com/articles)

# Q&A

<code />



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# Do's and Don'ts for Swing Applications

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TS-1099