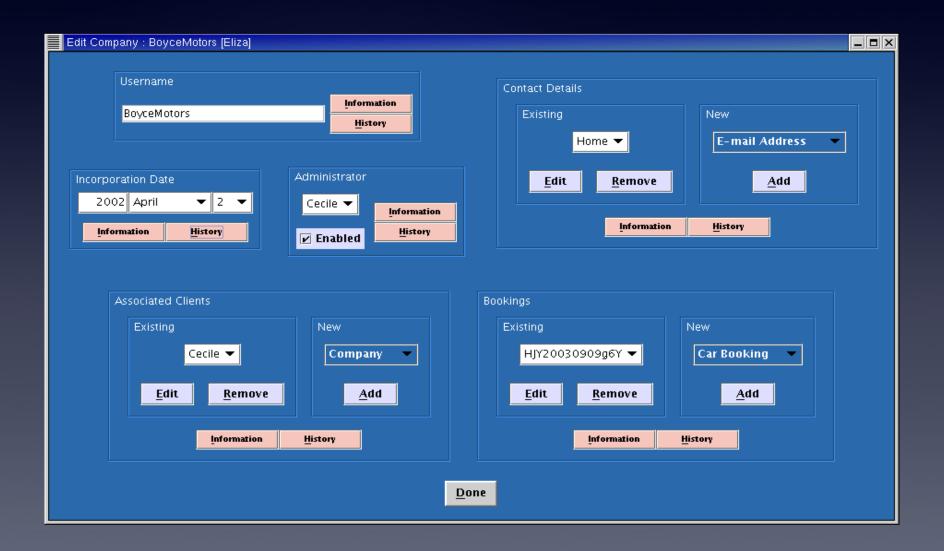
Gebote und Verbote für Swing

Karsten Lentzsch • JGoodies

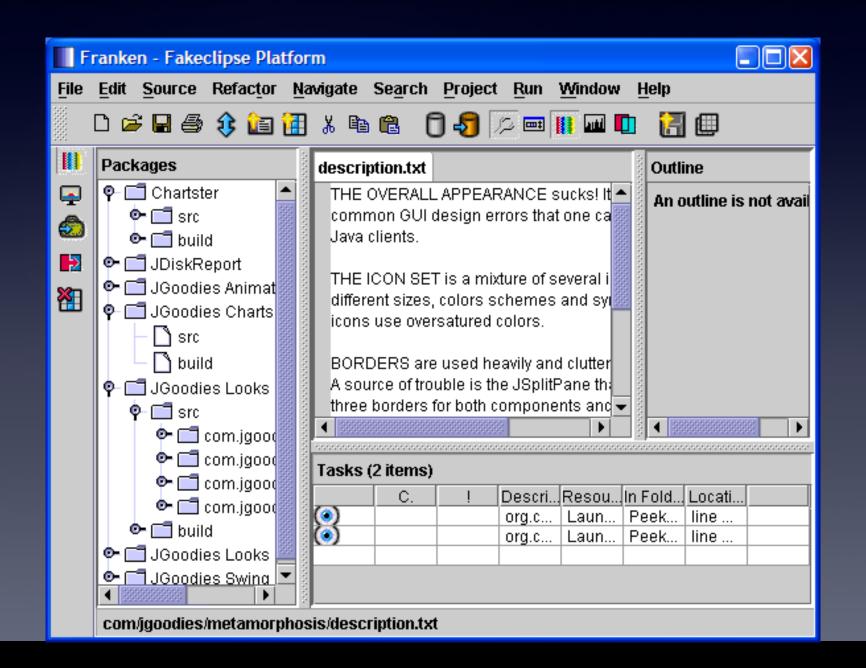
It's easy to program Swing ...

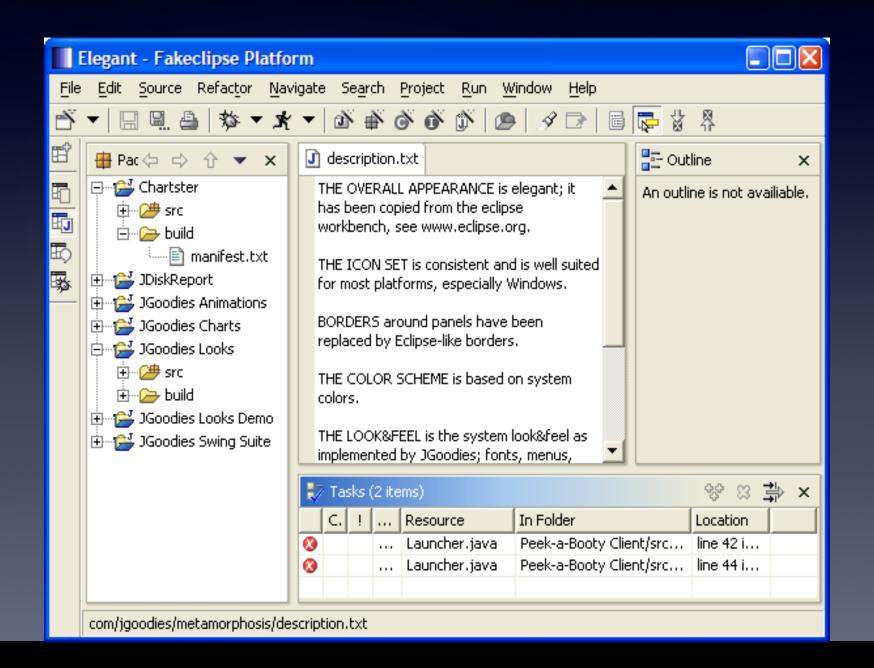
It's easy to program Swing badly.



Ziel

Lernen, wie man eine Swing-GUI schnell und sicher verbessern kann





Einleitung

Verbote

Gebote

Einleitung

Verbote

Gebote

Probleme

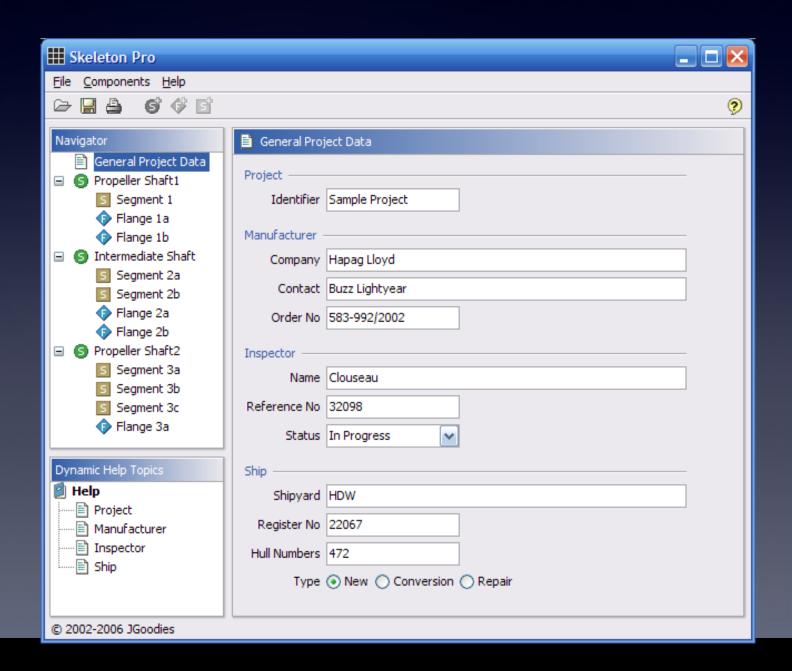
- Hässliche Oberfläche
- Schwer zu lernen
- Tutorials, Artikel, Bücher zeigen schlechte Gestaltung
- Schwer zu implementieren
- Wenige gute Quelltextbeispiele

Target

- "Normale" Desktop-Projekte:
- Kein Gestaltungstraining
- Keine Zeit
- Kein Ul-Budget
- Kunde zahlt nicht für gute Gestaltung

Ausrichtung

- Gute Gestaltung, die jeder schaffst
- Dinge, die man rasch ändern kann
- Formularzentrierte Gestaltung
- Regeln, keine Kunst
- Mithalten mit nativen GUIs



Prinzipien

- Kleiner Fehler, großer Schaden
- Kleinigkeiten summieren sich
- Richte Aufmerksamkeit auf Inhalte, nicht auf die Gestaltung
- Bass sein, was Du nicht kannst!

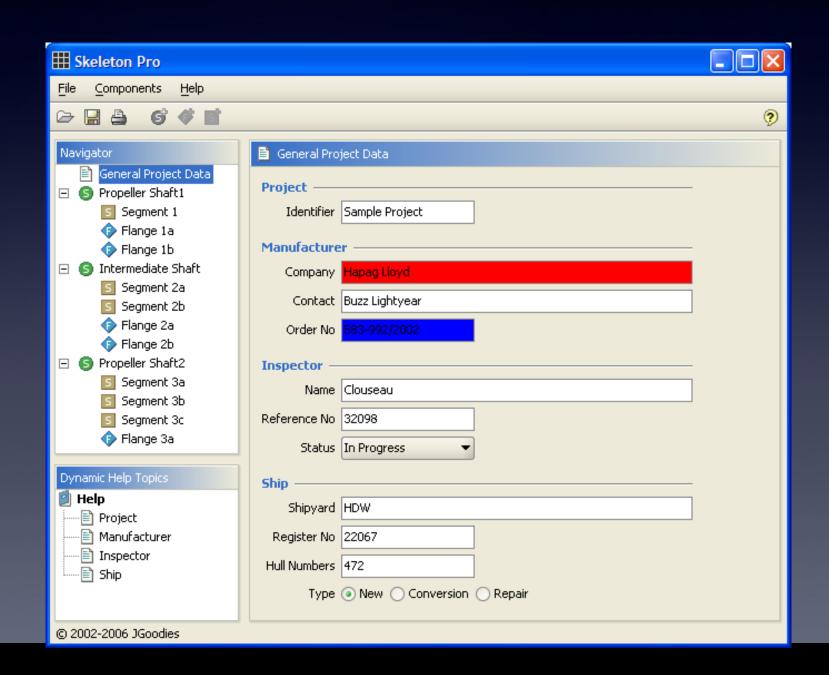
Einleitung

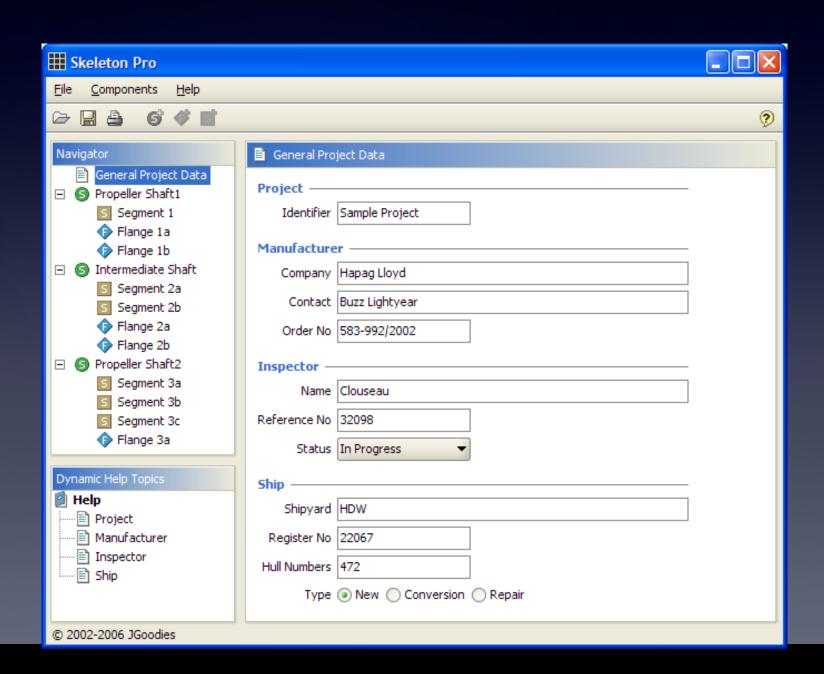
Verbote

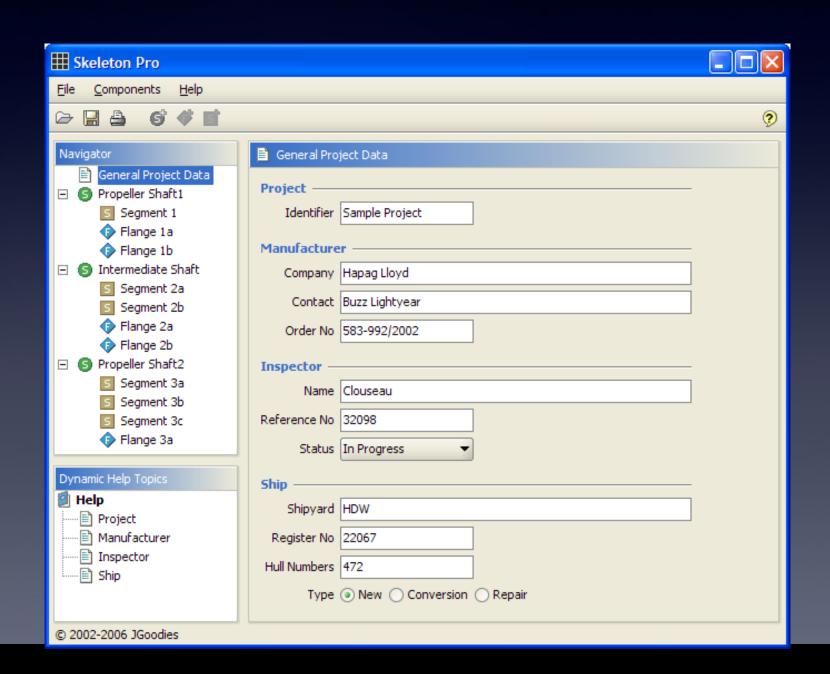
Gebote

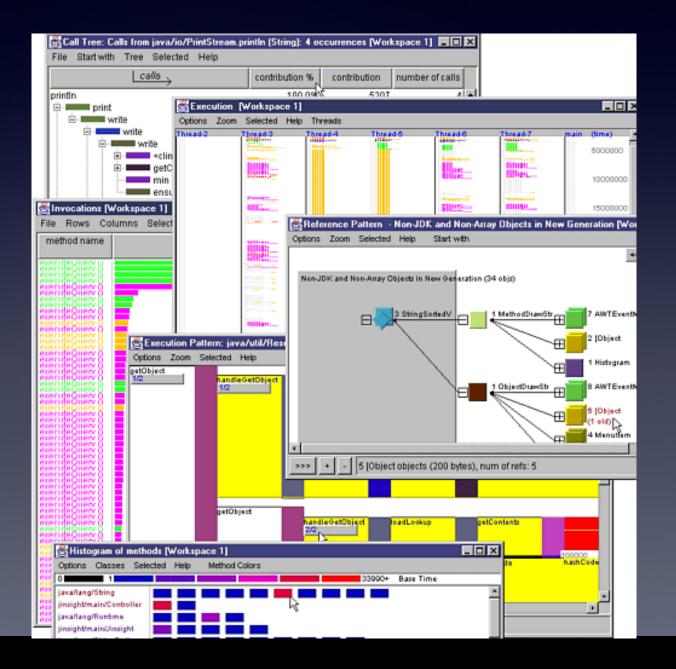
Farben

- Füge dem Desktop keine Farben zu
- Keine Farben zum Swing L&F
- Meide bunte Farben





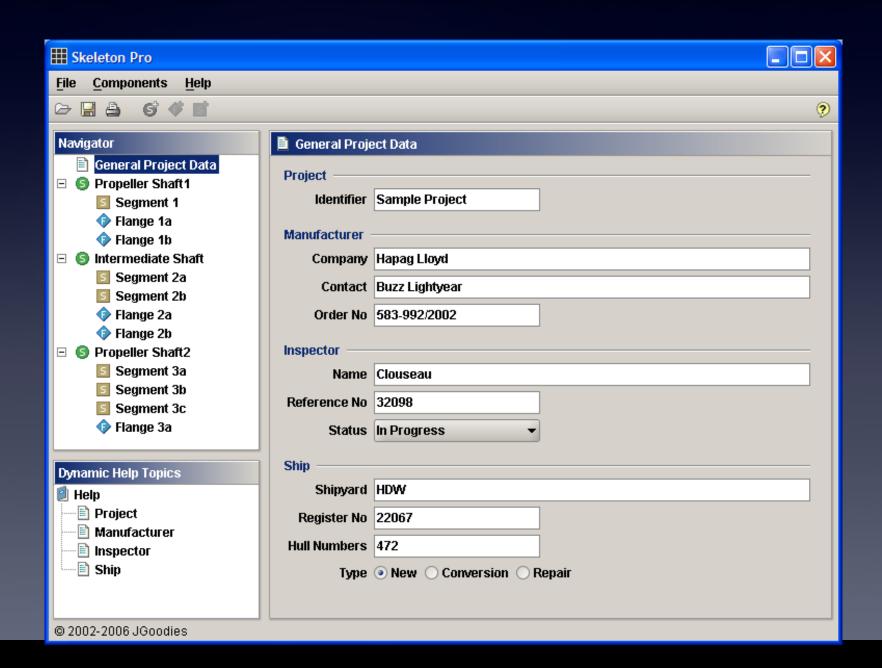


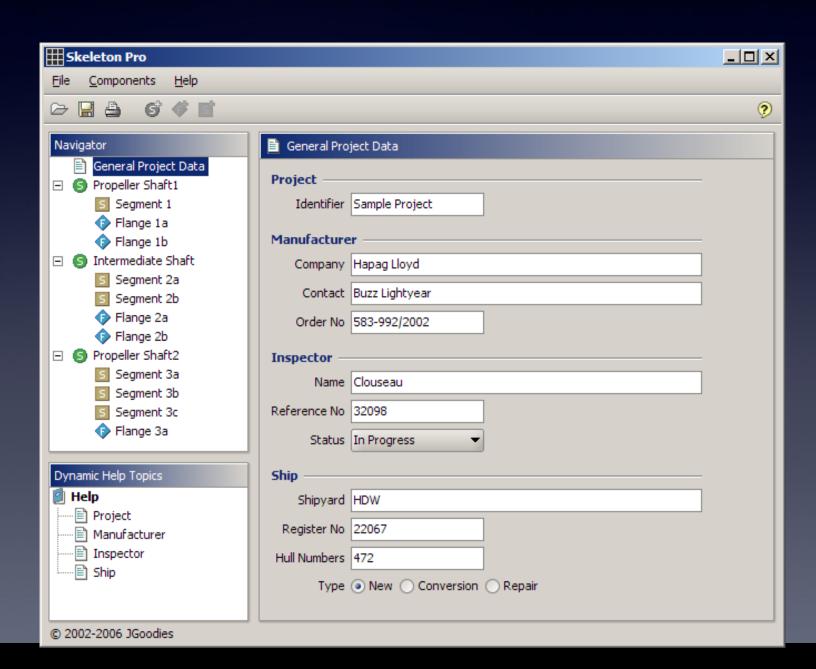


Paths Table							
	Call Stack Prefix		Access	Table Access	Depth	Count	Clock Total 🔻
						21,381	1,161,153,675
	<mark>'™</mark> • deliverPO	•	Read-Write	• •	16	*4,548	*145,503,248
	🕙 🔤 scheduleWorkOrder		Read-Write	₹	34	113	141,970,941
	🕙 🔤 scheduleWorkOrder		Read-Write	₹	35	113	137,339,645
	🕙 🕶 scheduleWorkOrder		Read-Write	m_parts	34	615	128,048,284
	🕙 🔤 scheduleWorkOrder		Read-Write	₹	37	81	90,492,223
	🕙 🔤 scheduleWorkOrder		Read-Write		30	279	68,705,334
	🕙 🔤 scheduleWorkOrder		Read-Write	₹	38	54	48,657,110
	🕙 💌 scheduleWorkOrder		Read-Write	75	33	189	45,416,502
	🕙 🕶 updateWorkOrder		Read-Write	-	5	4,002	40,284,446
	🕙 🎫 scheduleWorkOrder		Read-Write		13	470	36,327,201
			Read-Write	• •	12	1,997	32,633,315

Schriften

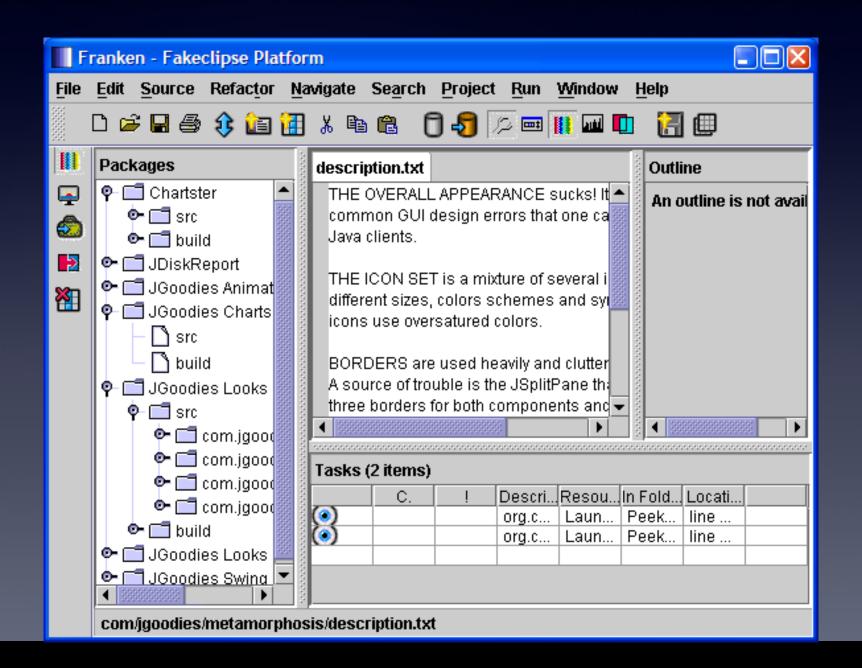
- Nutze Schriften des Desktops
- Native Schriftgröße
- Natives Gewicht (normal vs. fett)
- Natives Rasterverfahren (pixel, geglättet, Subpixel-Glättung)

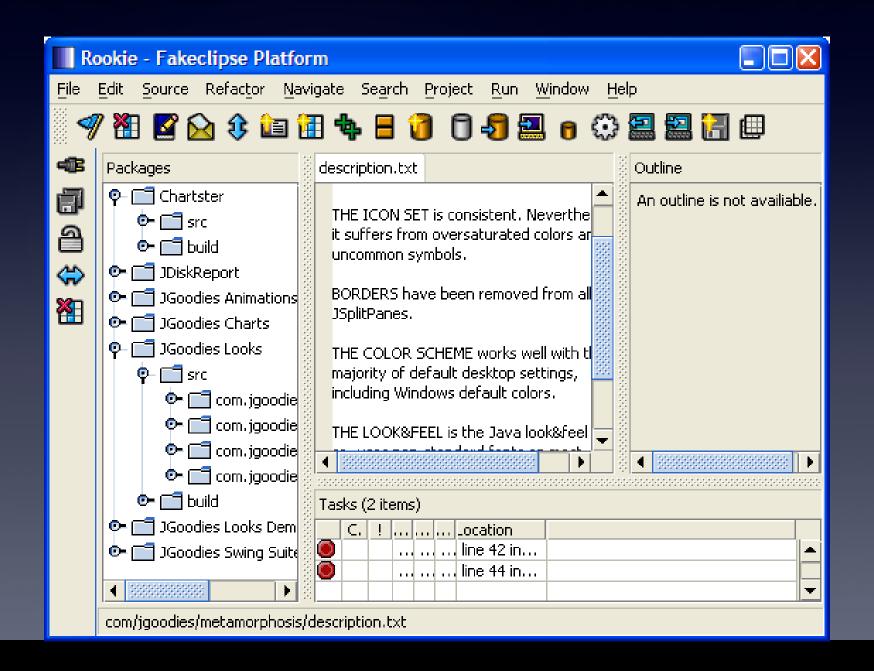


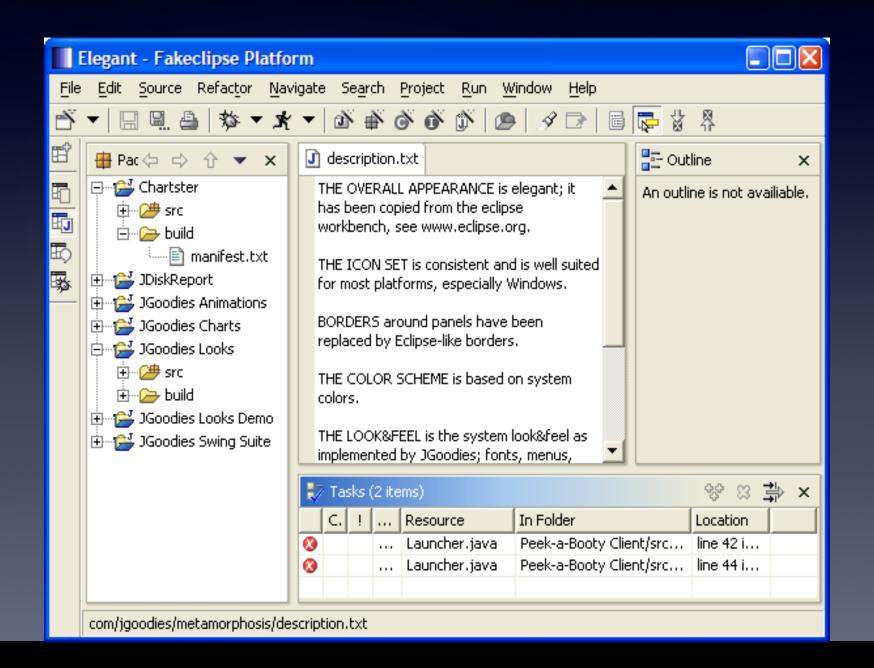


Icons

- Sollen zum Desktop passen:
 Anmutung, Größe, Farbe, Schema
- Konsistent
- Entferne fragwürdige Icons







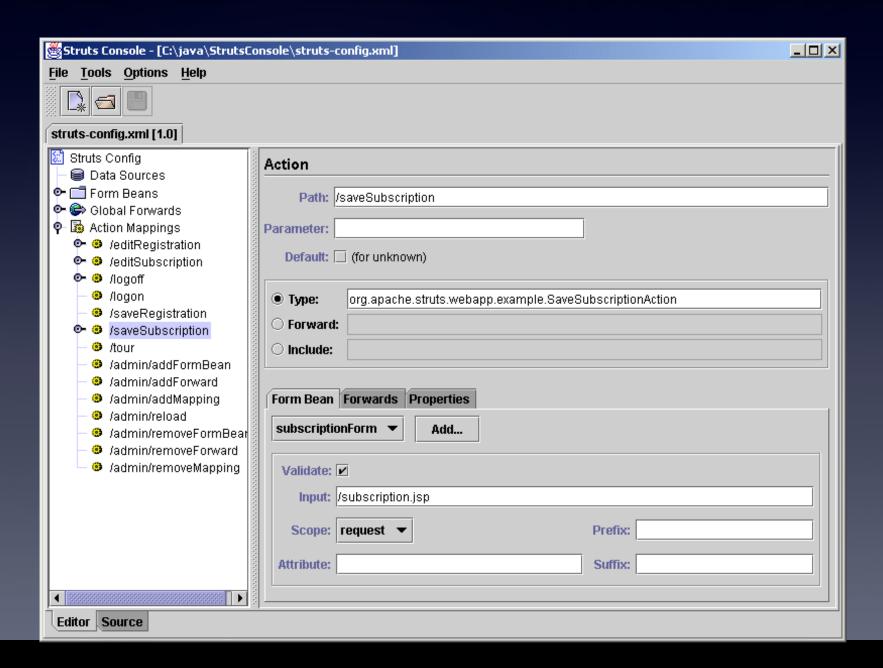
Einleitung

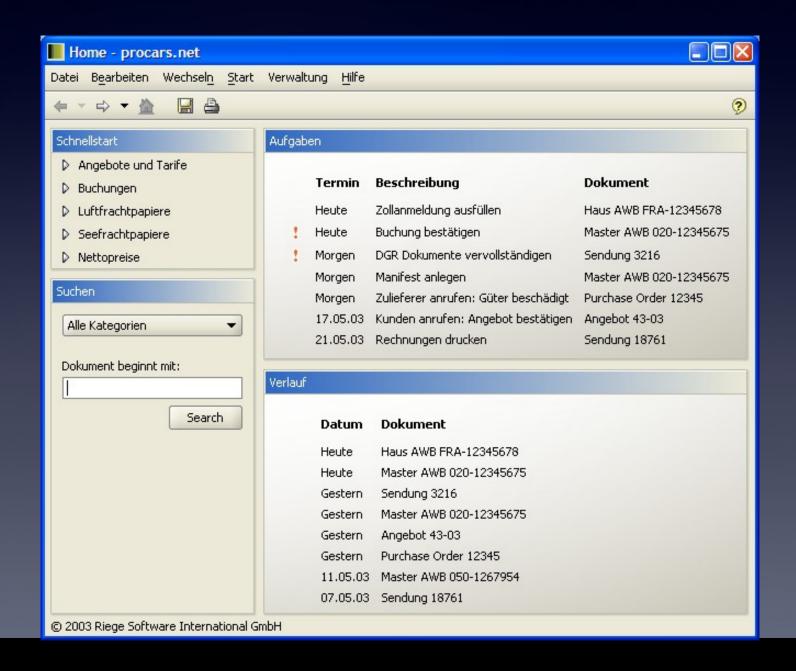
Verbote

Gebote

Schwulst und Bläh

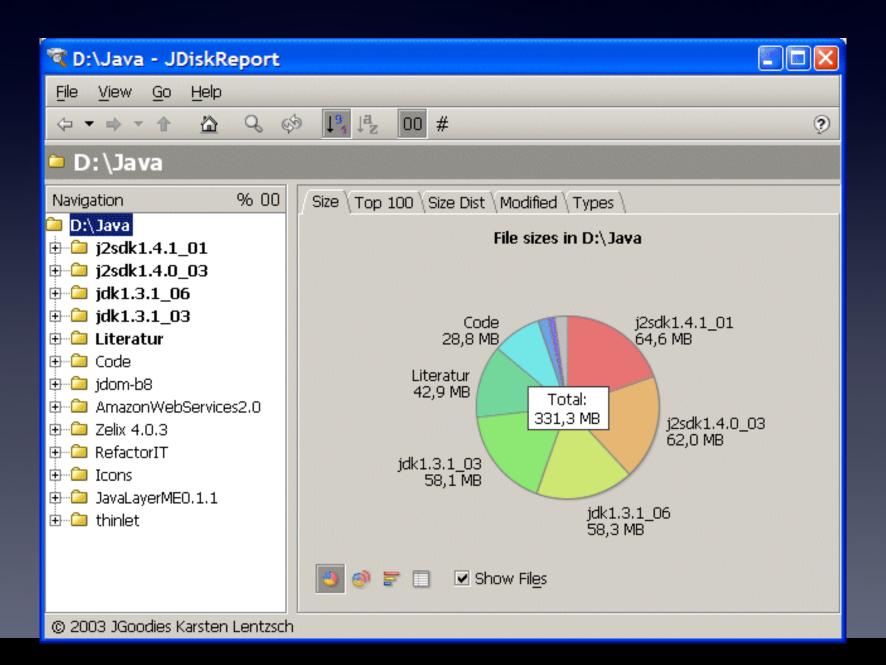
- Weg mit visuellen Störenfrieden
- Entferne unnötige Rahmen
- Lieber Trenner als (titled) Rahmen
- Schreibe kurz und bündig

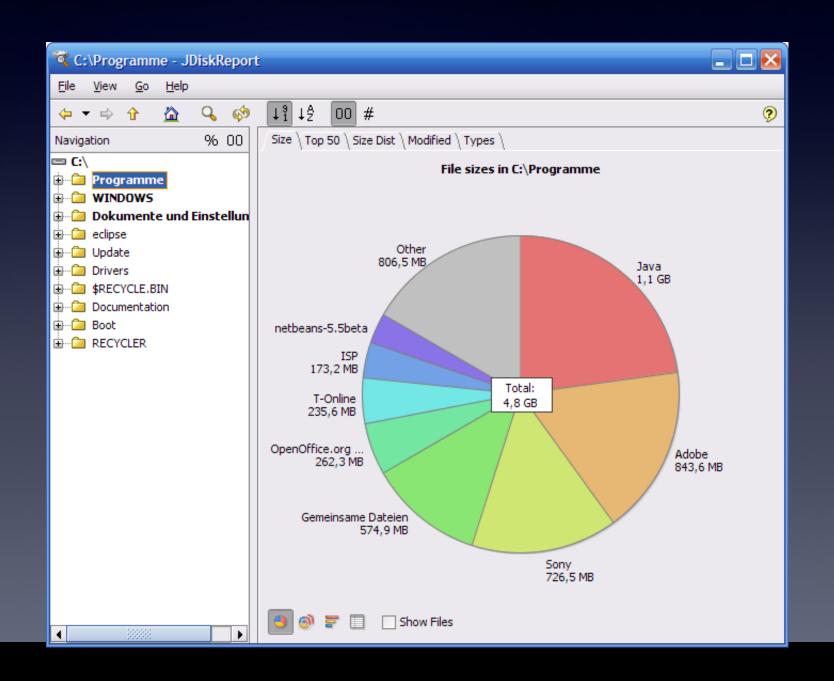




Design-Essenz

- Informiert oder stört es?
- Prüfe: Pixel, Linien, Rahmen, Wörter
- Entferne unnötige Komponenten, Panel, Dialoge

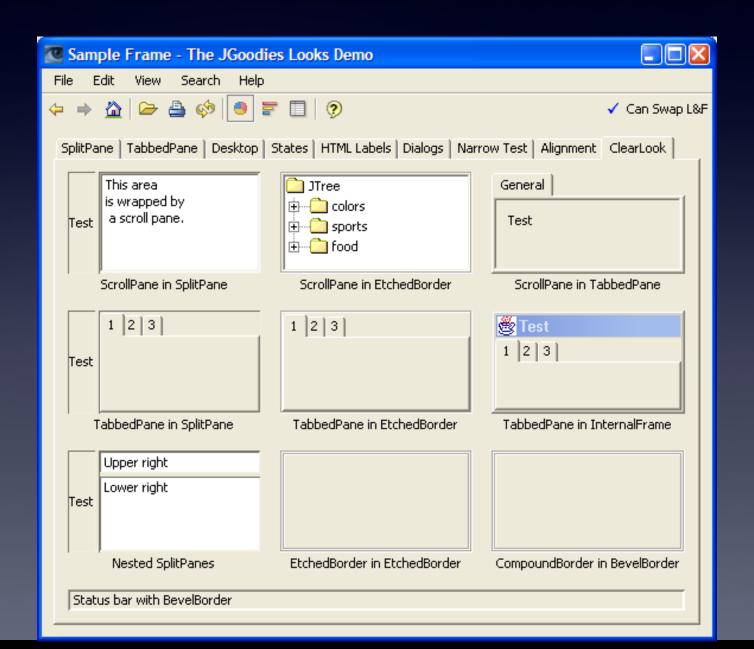


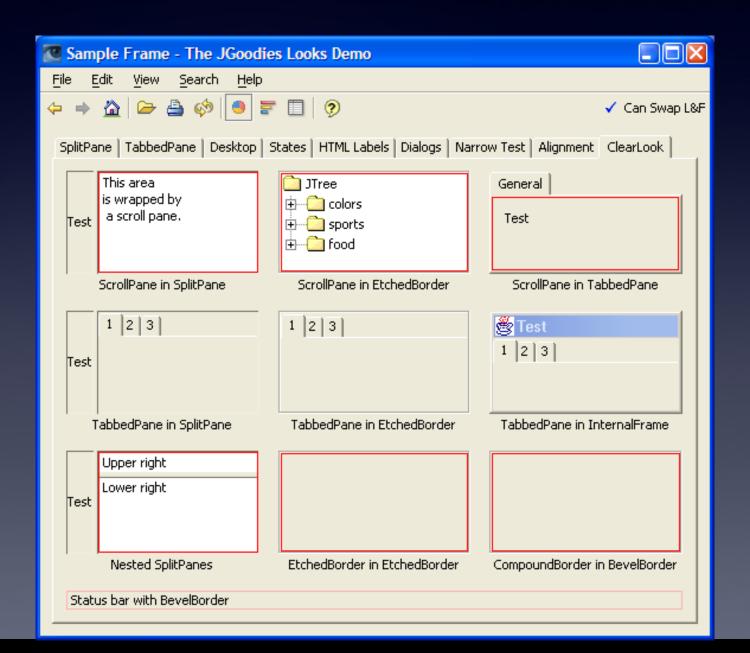




Kritische Komponenten

- Geschachtelte Rahmen
- JSplitPane
- JScrollPane
- BevelBorder
- EtchedBorder
- TitledBorder

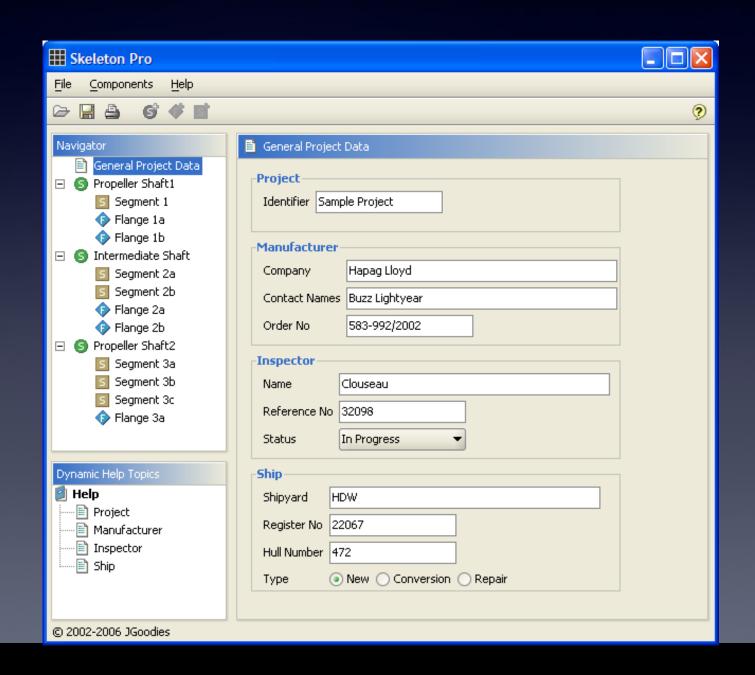


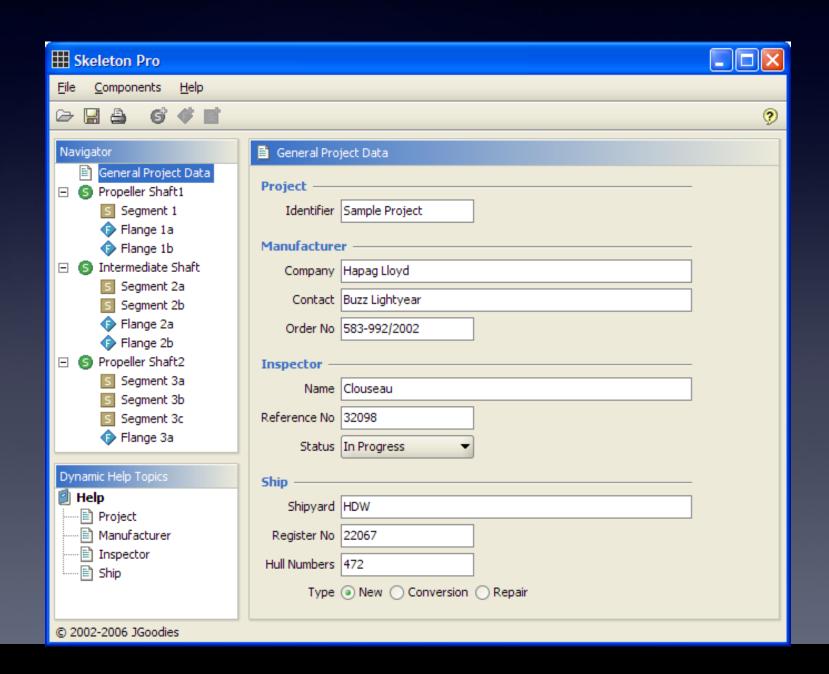


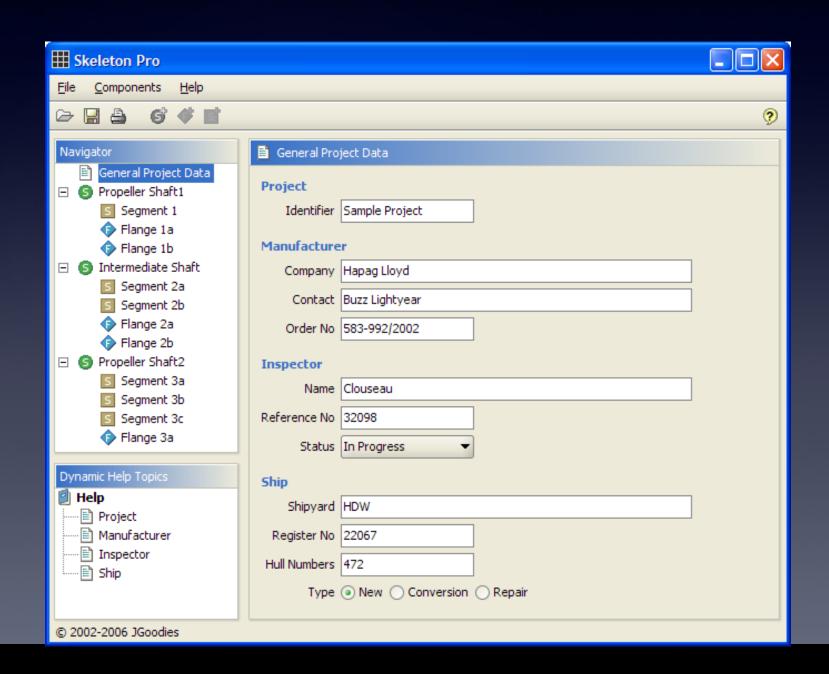
TitledBorder

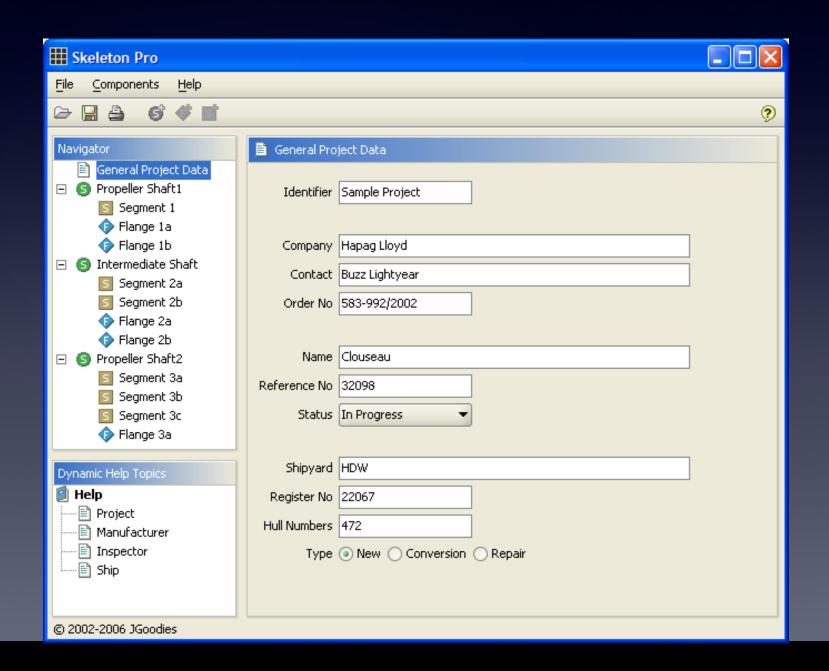
- Hat häufig 3 unnötige Linien
- Schwer auszurichten
- Schwer, seinen Inhalt auszurichten

- Lieber Separator als TitledBorder
- Schachtel keine TitledBorder









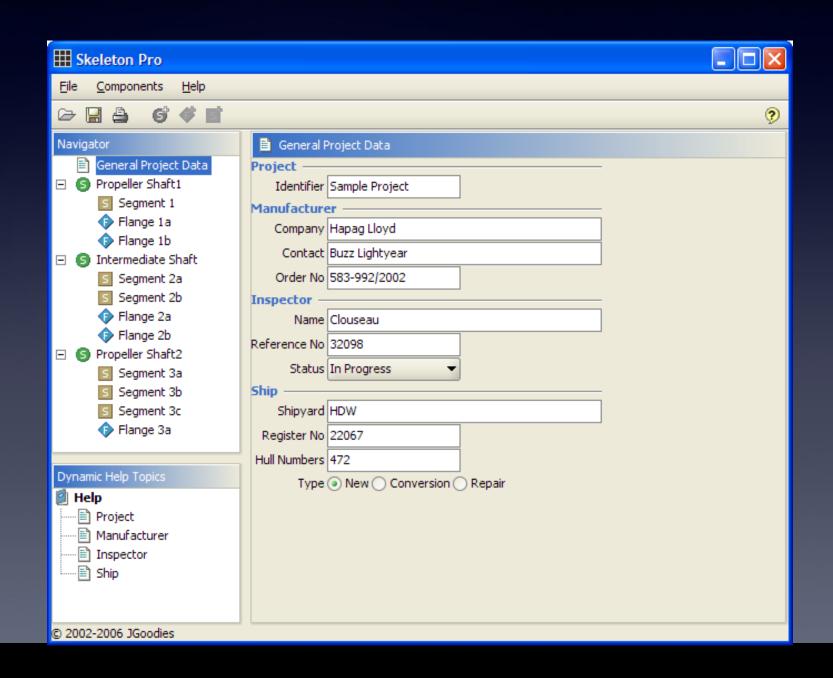


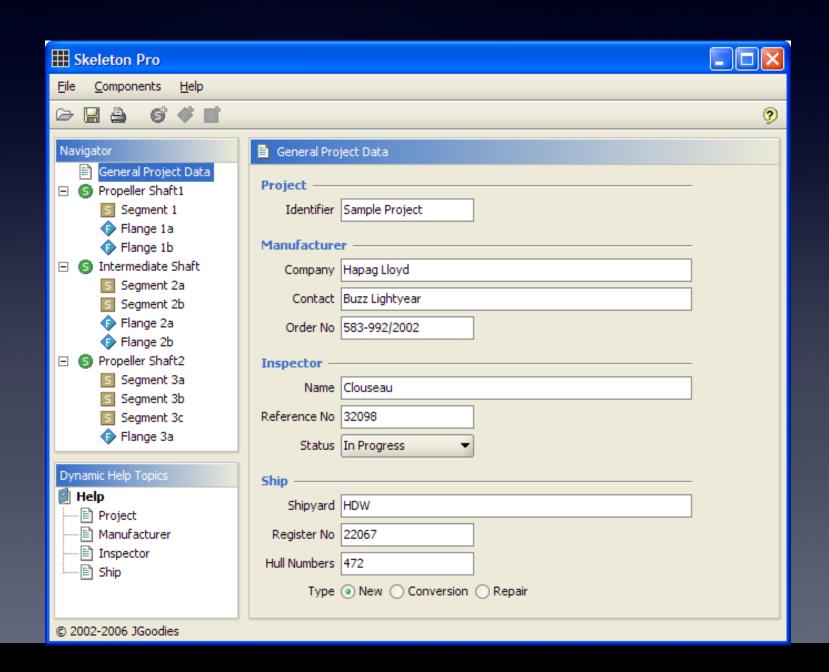
JSDL :: Find and replace p □ □ I					
Find:					
Replace with:					
Direction: Forward					
Backward					
Scope: All					
O Selection					
Options: 🗹 Case sensitive 🔲 Wrap search					
Whole word Incremental					
Find Replace					
Replace/Find Replace All					

Leerraum

- Ist keine Verschwendung
- Wichtiges Gestaltungsmittel

- Isoliere und trenne Abschnitte
- Umgib Komponenten mit Weißraum
- Lieber Leerraum als Trenner





Ausrichten

- Richte Komponenten-bounds aus
- Gitter oder Gittersystem?

Schwer auszurichten:

- Entlang der Schriftgrundlinie
- Bounds und an der Grundlinie

& Adressen pflegen ■ ■ ×								
Daten Adresse ?								
Kennung:	ennung: RUDI				ļ	Anrede:	Herrn]
Name1:	ne1: Rudi Runtime				elefon1:	030 / 4711		
Name2:					Te	elefon2:		
Name3:						elefax:		
Straße:	Auf dem Schulweg 13				EMail:	rudi@runtime.de		
PLZ/Ort:	10629 Berlin						✓ privat	
Personen Notizen Termine Schlagworte Bemerkung								
Name Funktion				Durchwahl Priv		Privat		
Karl Schneider Beratung			030 - 2801 - 1000					
Karin Müller Sekretariat			etariat		030 - 28	ゼ		

Segment	1		
Segment -			
<u>Identifier</u>	Segment 1		
PTI [kW]		Power [kW]	
len [mm]			
Diameters			
da [mm]		di [mm]	
da2 [mm]		di2 [mm]	
R [mm]		D [mm]	
Criteria —			
Location	Propeller nut thread 🔻	k-factor	
_Connection	C45E, ReH=600 ▼		
Holes	✓ Has radial holes		
Slots	Has longitudinal slots		

Mikro-Design-Pfusch

- Inkonsistente Komponentengrößen
- Inkonsistente Komponenten-Insets
- Grundlinie "springt" oder die Bounds
- Falsche Pseudo-3D-Effekte

.Net 2.0

2610 💲

26.10.2005

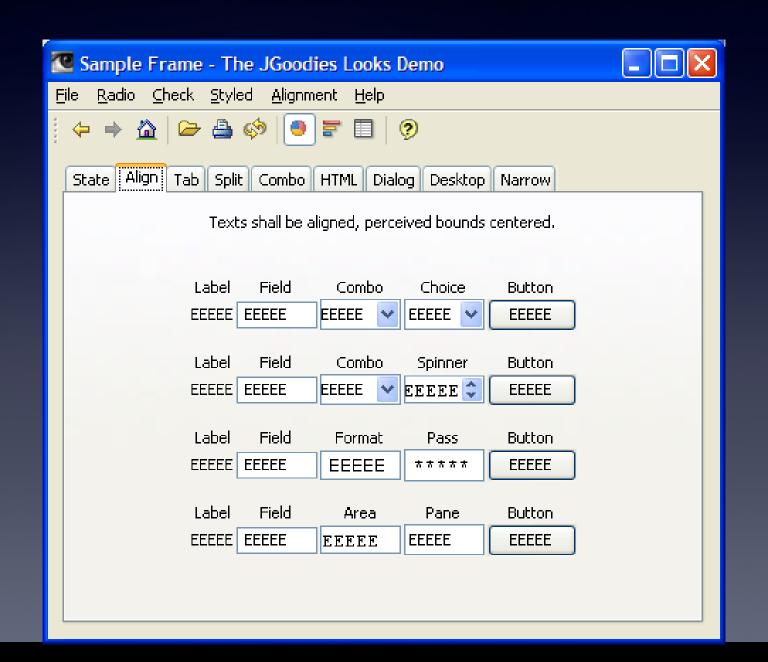


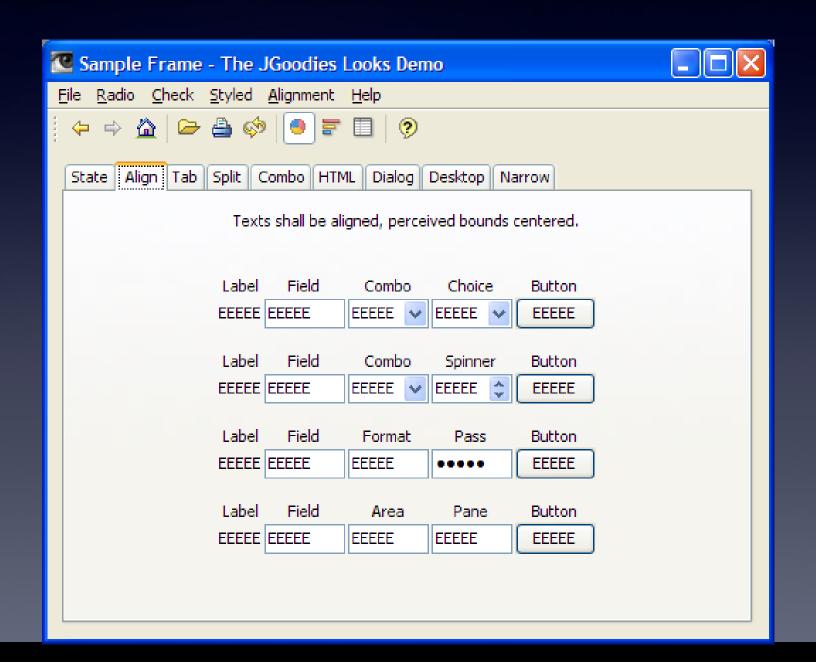
26.10.2005

26.10.

Java, Grundlinie mit Matisse gerichtet







Gruppiere

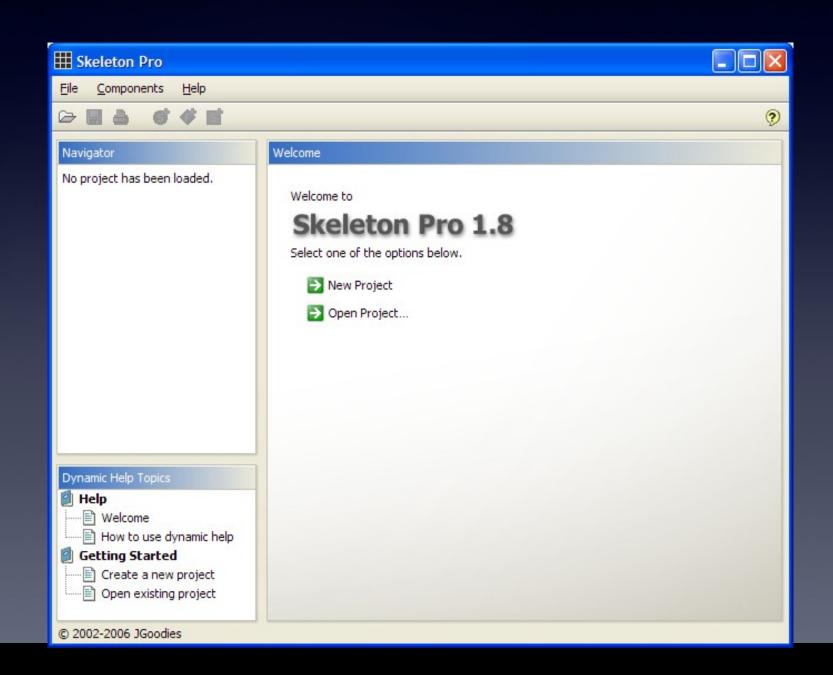
- Lerne zu gruppieren
- Mache Gleiches gleich breit
- Mache Gleiches gleich hoch
- Aber: meide TitledBorder

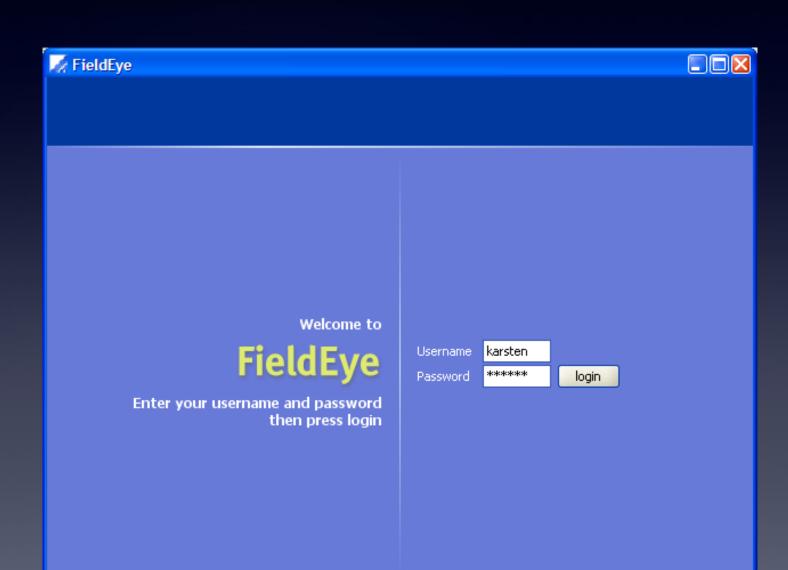


Segment	1		
Segment -			
Identifier	Segment 1		
PTI [kW]		Power [kW]	
len [mm]			
Diameters :			
da [mm]		di [mm]	
da2 [mm]		di2 [mm]	
R [mm]		D [mm]	
Criteria —			
Location	Propeller nut thread 🕶	k-factor	
Connection	C45E, ReH=600 ▼		
Holes	✓ Has radial holes		
Slots	Has longitudinal slots		

Balance

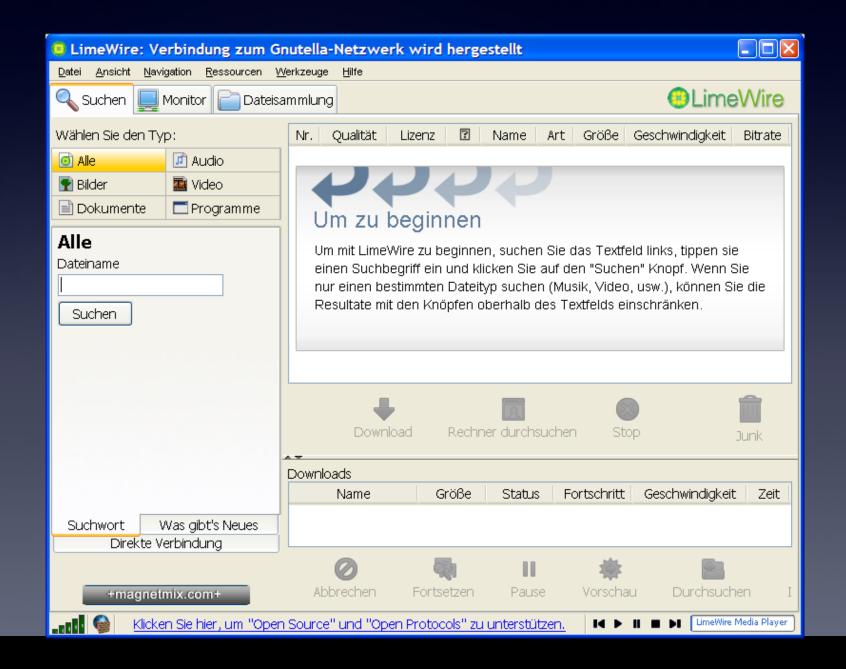
- Optische Axen, optisches Gewicht
- Suche das optische Zentrum
- Einzelne Views evtl. zentrieren
- Erwäge Symmetrie

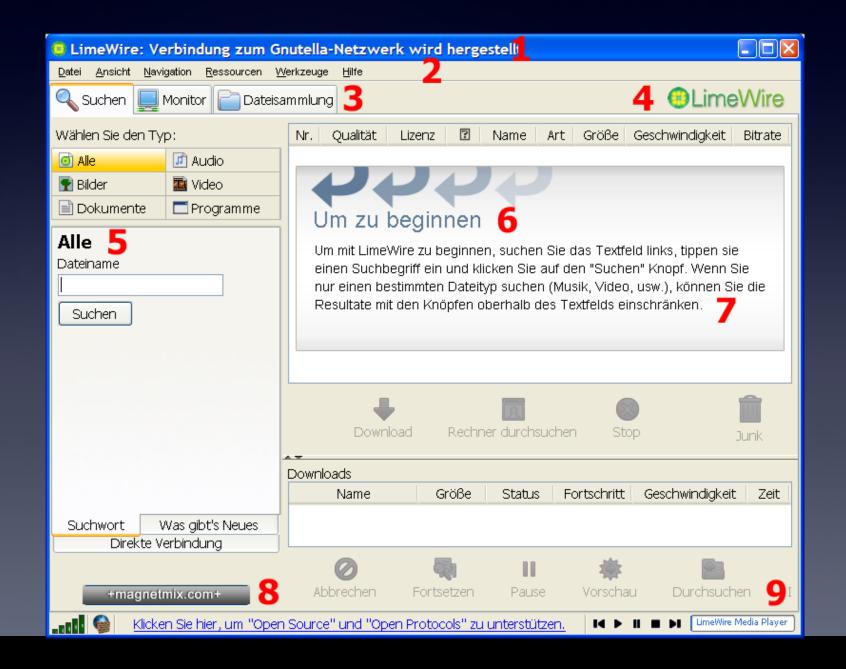


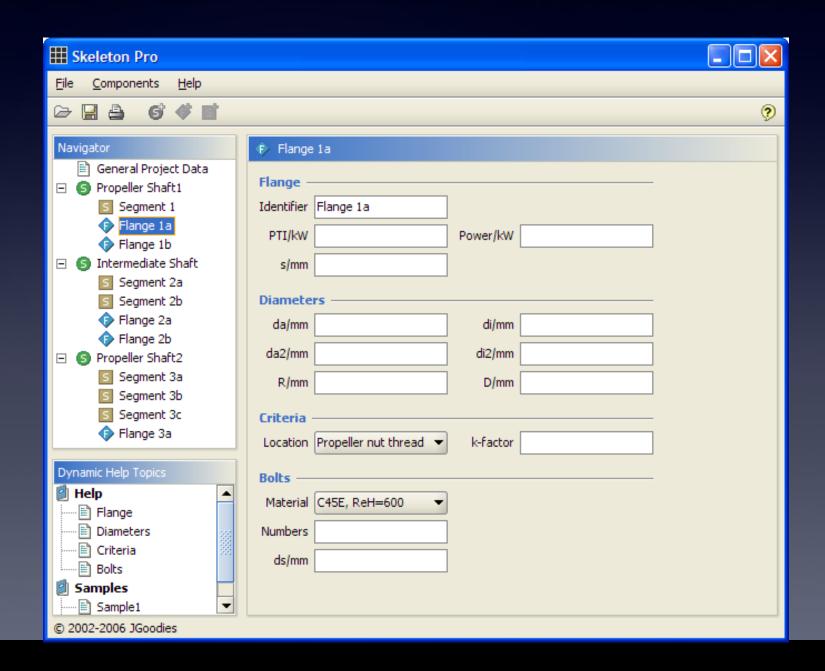


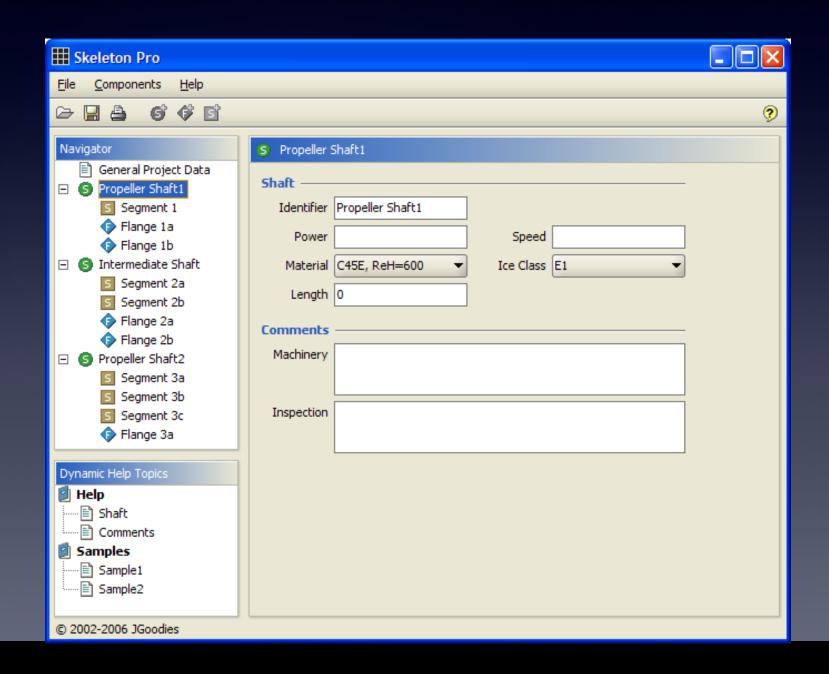
Konsistenz

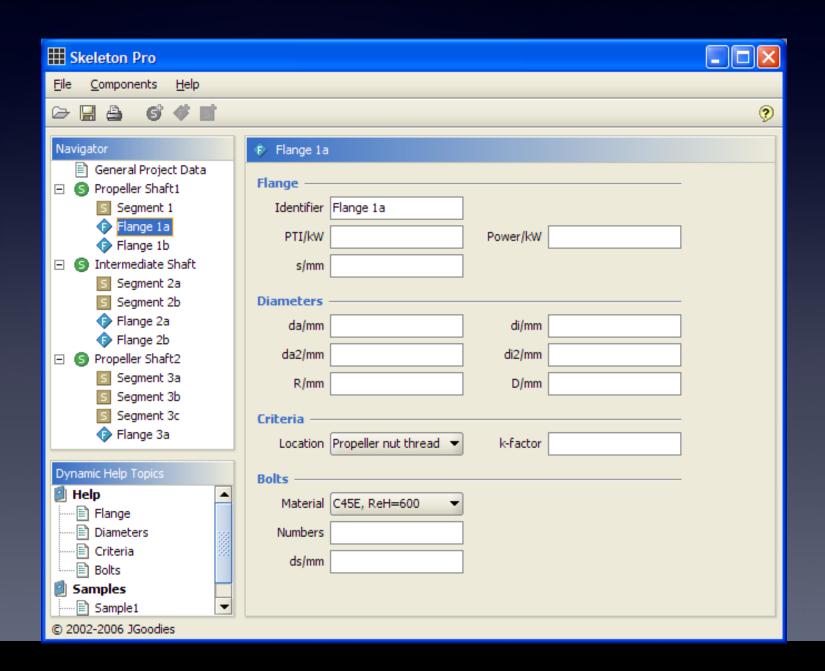
- Größen, Reihenfolgen, Abstände
- Dialoge, Panels, Button-Leisten
- L&F-Mikrogestaltung
- Icons
- Schriften

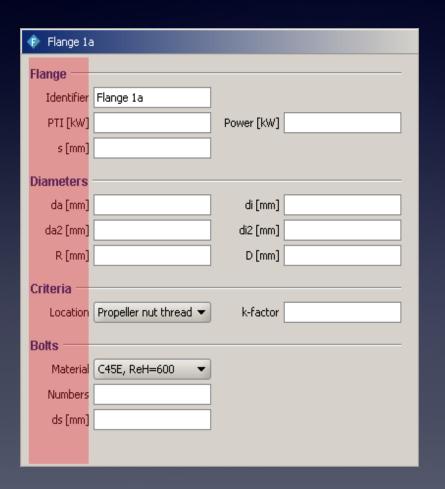








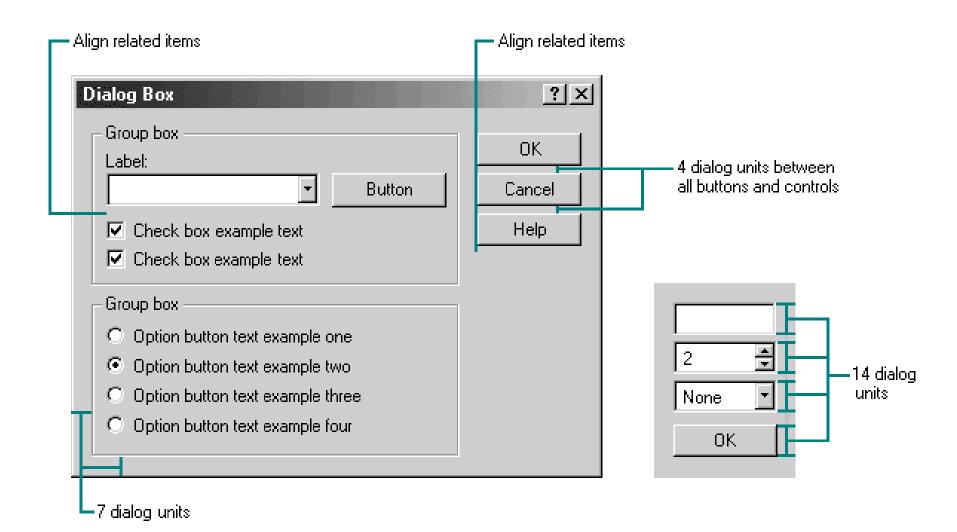




I	S Segment	1		
	Segment -			
	Identifier	Segment 1		
	PTI [kW]		Power [kW]	
	len [mm]			
	Diameters			<u> </u>
	da [mm]		di [mm]	
	da2 [mm]		di2 [mm]	
	R [mm]		D [mm]	
	Criteria —			
	Location	Propeller nut thread 🔻	k-factor	
	Connection			
	Holes	✓ Has radial holes		
	Slots	Has longitudinal slots		

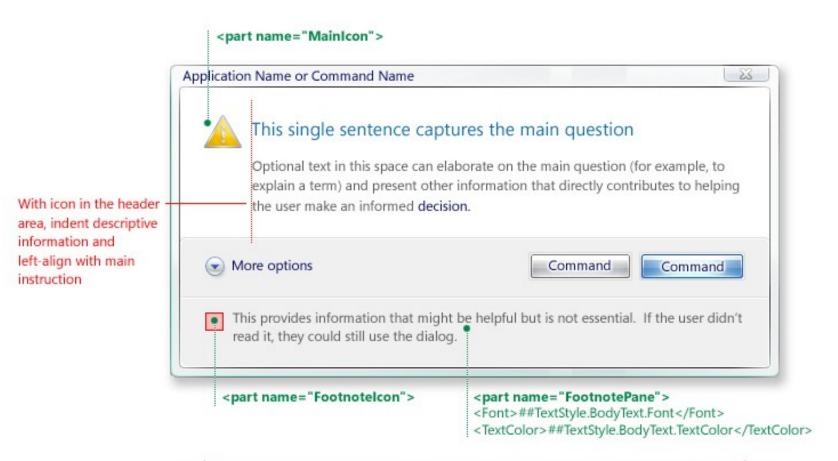
Meta Design

- Ziel: schnell konsistent gestalten
- Grob: Dialog-Gestaltung
- Fein: Größen, Abstände, ...

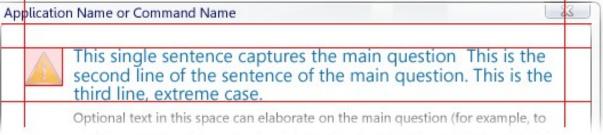








Task dialog automatically expands and top aligns longer main instruction text strings







Höhe zu Breite

- Stabile Verhältnisse:
 - 5:3
 - 16:9
 - 4:3
 - |:|
- Verwende wenige Verhältnisse



Labil Stabil

Auflösung

- Skaliere mit Schrift & Auflösung (dpi)
- Gestaltung kann sonst zerbrechen

GridBagLayout				
Karsten				

GridBagLayout _ □ ×				
Name:				
Phone:				
Fax:				
Email:				
Address:				

Flexibilität

- So statisch wie möglich
- So flexibel wie nötig
- Statisch, splitted, mehrfach gesplitted, Docking, freie Fenster

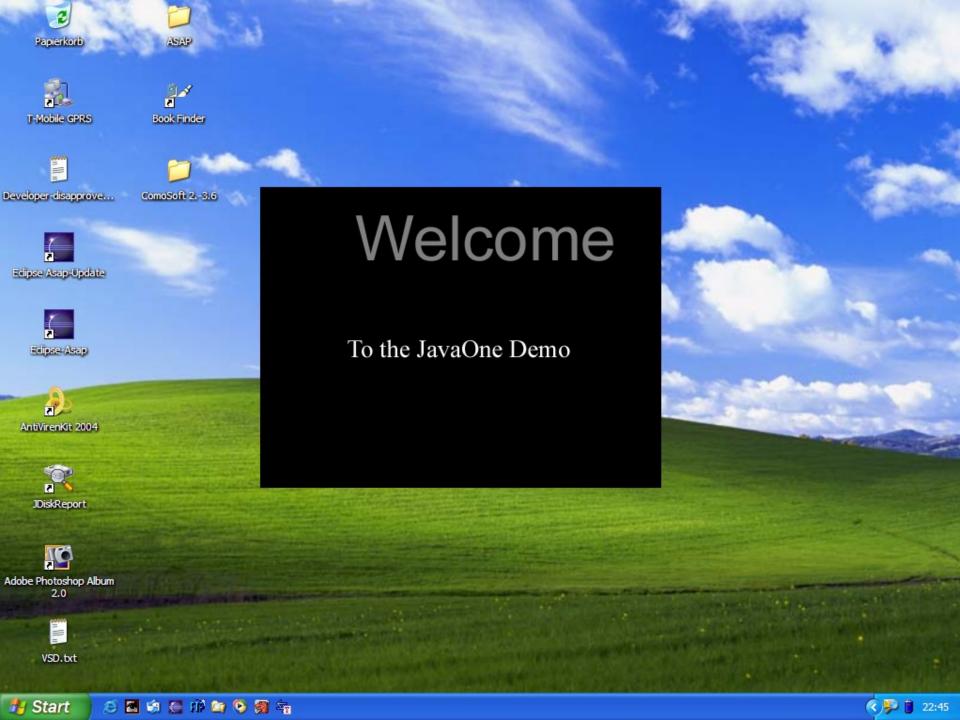
Kontrast

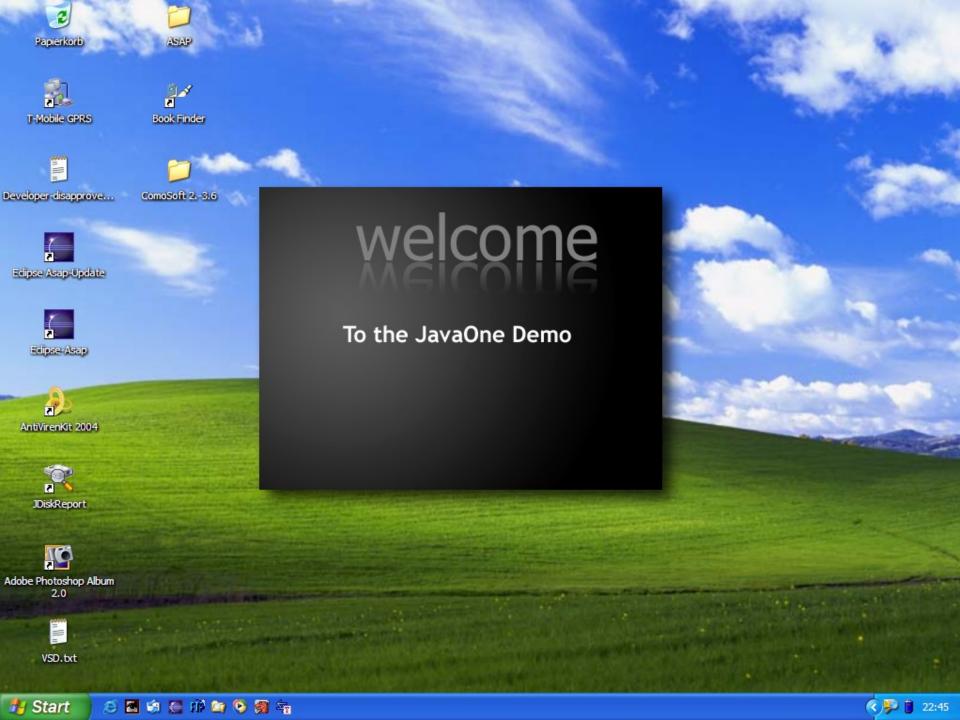
- Gleiche Kontraste an
- Füge Weißraum zu wo nötig
- Meide große schwarze Bereiche
- Nutze Weiß sparsam (es ermüdet die Augen)

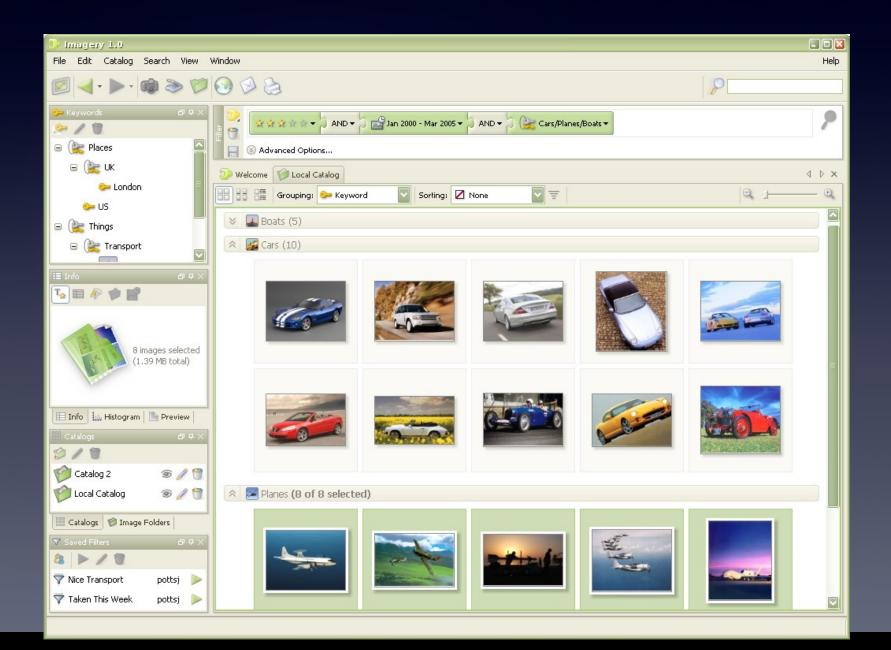
Kenne den Blinzeltest

Polieren

- Bisher haben wir nur reduziert
- Nun füge vorsichtig zu
 - Farbe
 - Typografie
 - Bilder
 - Animation



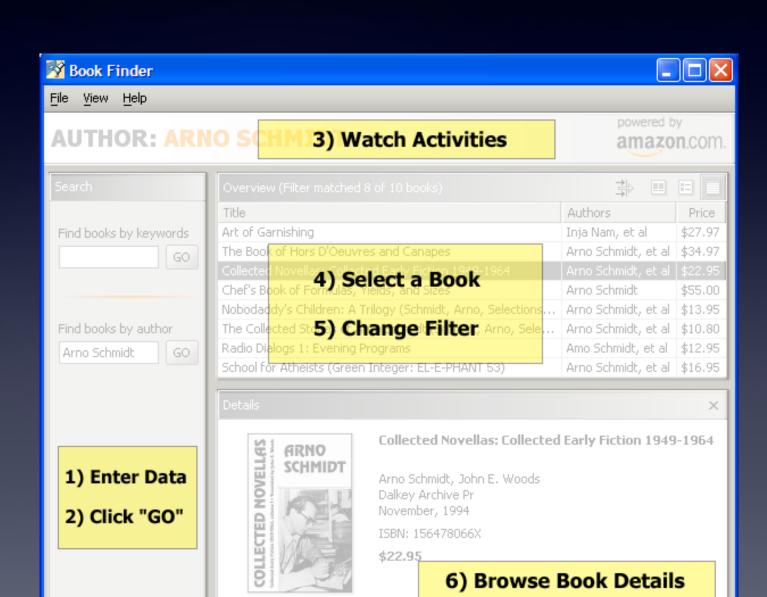




Mächtiges Toolkit

- Fortgeschrittene Grafikoperationen
- Teilweises Durchscheinen
- Glass pane
- Austauschbarer Look&Feel
- Ermöglicht viele Abstraktionen

Editor			
Customer —			
Last Name	X		
First Name	Karsten		
Age	8		
Sex	Male Female		
Order			
Order No	42		
Order-/Delivery Date	11.12.03 01.01.03		
Notes			
Customer.Last Name is mandatory Customer.Age value must be in [18, 150] Order.Order No length must be in [5, 10]			
OK Cancel			



Agenda

Einleitung

Verbote

Gebote

Gallerie

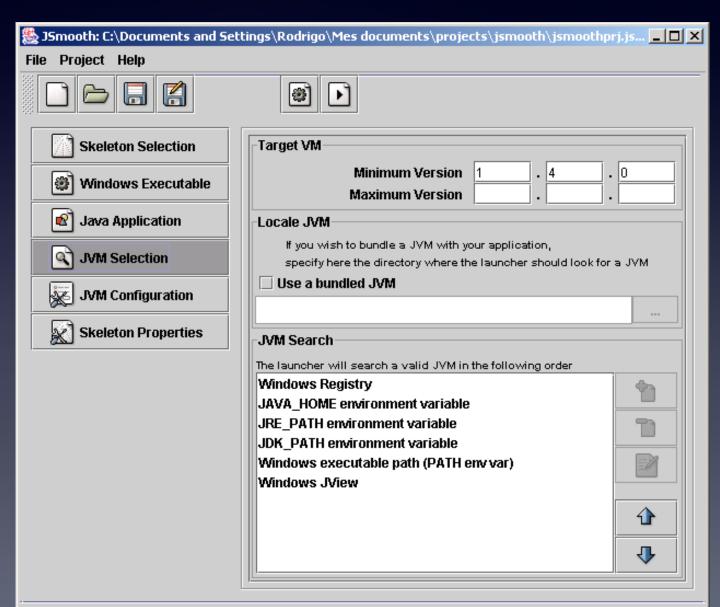
Wer bist Du? [1.0]



Domain-Name, ohne "www"
heise.de 🔻
Zu benutzender Such-Server(whois):
whois.geektools.com
10010110101Go01101110101
10010110101Info 1101110101
1001Einfache Text Darstellung
10010 Über "Wer bist Du ?" 10101

I COTTO TO	11 OCTORTOR		
Info Whois-Output Optionen			
startseite whois optionen html/such	ien proxy uper		
Über "Wer bist Du ?" - Version 1.0a			
Copyright (c) by Olaf Kliche			
Witten, 6.Dezember 2002			
Mail an: ok@object4you.com			
Iviali ali. <u>oktobjectayou.com</u>			
Im Web			
• wer-bist-du.net (Diese Site)			
• www.okl.de (Entwickler-Site)			
• www.object4you.de (Java-W	ebstart-Applikationen)		
 www.object4you.com (Java- 	Webstart-Applikationen)		
	22 - SAN STATE OF THE S		

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×

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Accept

Decline

Print

jDiskReport Setup



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Please read the following license agreement carefully.

Press the PAGE DOWN key to see the rest of the agreement.



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Do you accept all the terms of the preceding License Agreement? If you choose "No", the setup will close. To install jDiskReport, you must accept this agreement.

< <u>B</u>ack <u>Y</u>es <u>N</u>o

🖺 JGoodies Media Player 11



Bitte lesen Sie den Lizenzvertrag

JGoodies Media Player License Agreement

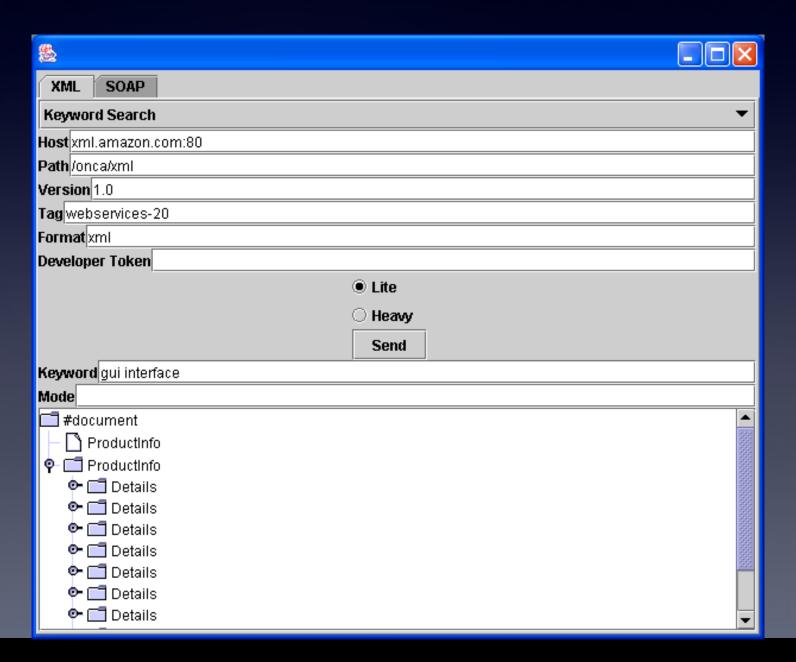
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- 3. You may not sell, rent, loan or otherwise encumber this software in whole or in









X

File View Help

AUTHOR: ARNO SCHMIDT

amazon.com.



Overview (Filter matched 8 of 10 books)	# □ □		
Title	Authors	Price	
Art of Garnishing	Inja Nam, et al	\$27.97	
The Book of Hors D'Oeuvres and Canapes	Arno Schmidt, et al	\$34.97	
Collected Novellas: Collected Early Fiction 1949-1964	Arno Schmidt, et al	\$22.95	
Chef's Book of Formulas, Yields, and Sizes	Arno Schmidt	\$55.00	
Nobodaddy's Children: A Trilogy (Schmidt, Arno, Selections	Arno Schmidt, et al	\$13.95	
The Collected Stories of Arno Schmidt (Schmidt, Arno, Sele	Arno Schmidt, et al	\$10.80	
Radio Dialogs 1: Evening Programs	Amo Schmidt, et al	\$12.95	
School for Atheists (Green Integer: EL-E-PHANT 53)	Arno Schmidt, et al	\$16.95	

COLLECTED NOVELLAS ONUS DE LA COLLECTE NOVELL

Collected Novellas: Collected Early Fiction 1949-1964

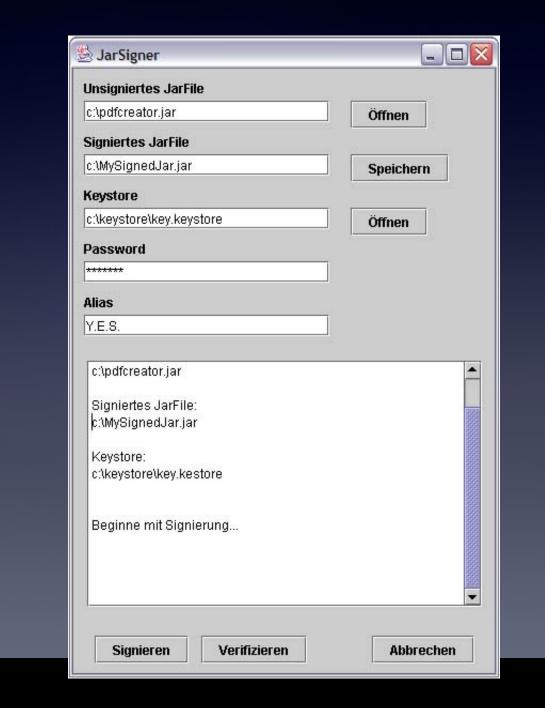
Arno Schmidt, John E. Woods Dalkey Archive Pr November, 1994

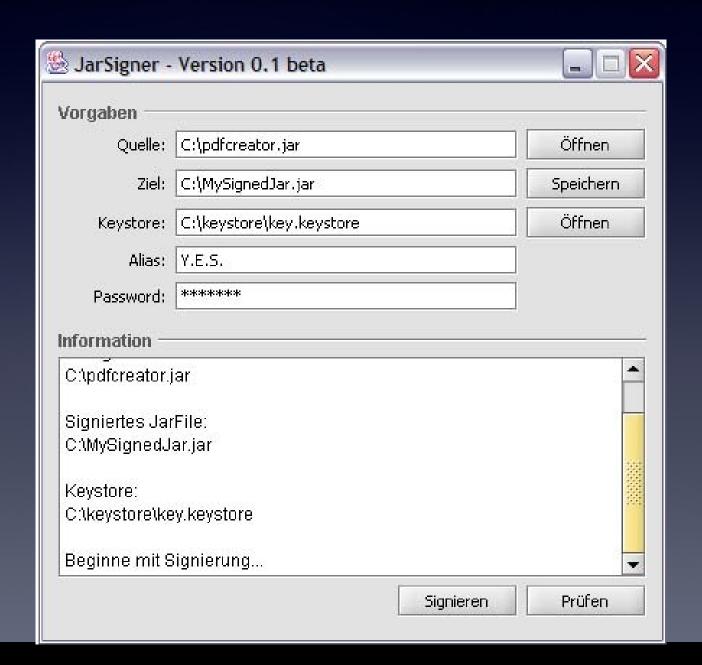
ISBN: 156478066X

\$22.95

Overview

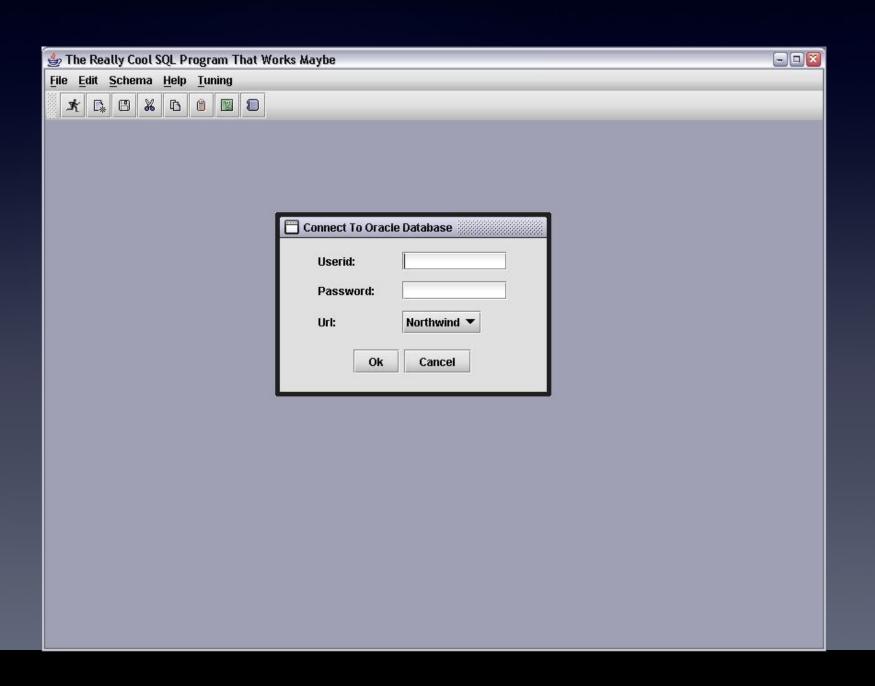
Reviews

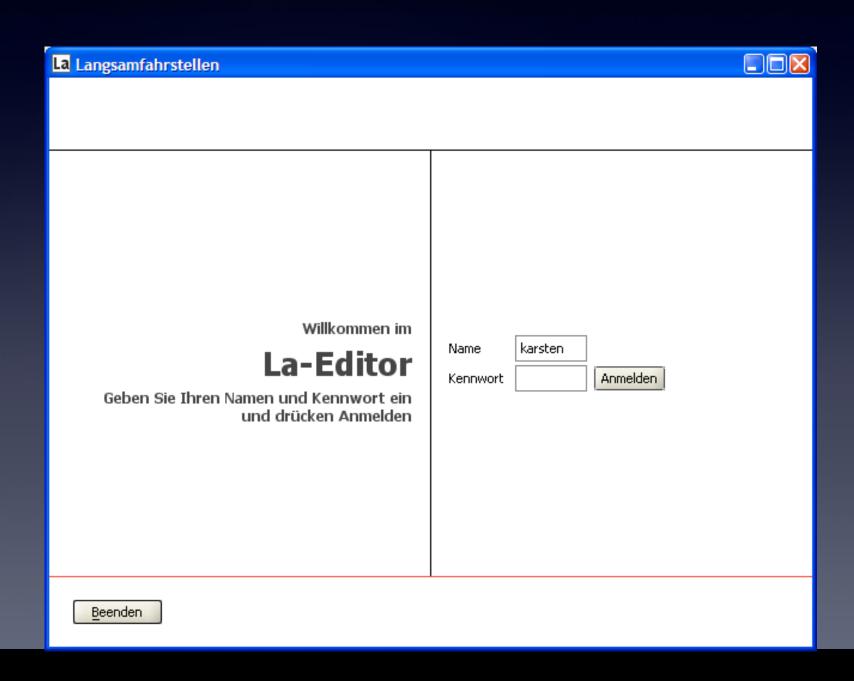












ı	La	Lang	samfah	rsteller







Willkommen in der

La-Bearbeitung

Geben Sie Ihren Namen und Kennwort ein und drücken Anmelden Name

Karsten

•••••

Kennwort

Anmelden

Beenden

© 2004 JGoodies



Instructions:

- 1. Select "Open" from the "File" menu
- 2. Select desired Struts config file

For further instructions please consult the "Help" section of the documentation.



JDiskReport 1.2

What do you want to do?

- Analyse a file tree
 Opens a directory chooser and analyses the choosen file tree
- Analyse D:\Install\Java
 Recursively analyses the specified path
- Analyse D: \Programme \OpenOffice.org1.1.0
 Recursively analyses the specified path
- Open a previously saved scan Opens a previously saved scan result
- Exit

 Leaves this application





JDiskReport 1.2



What do you want to do?

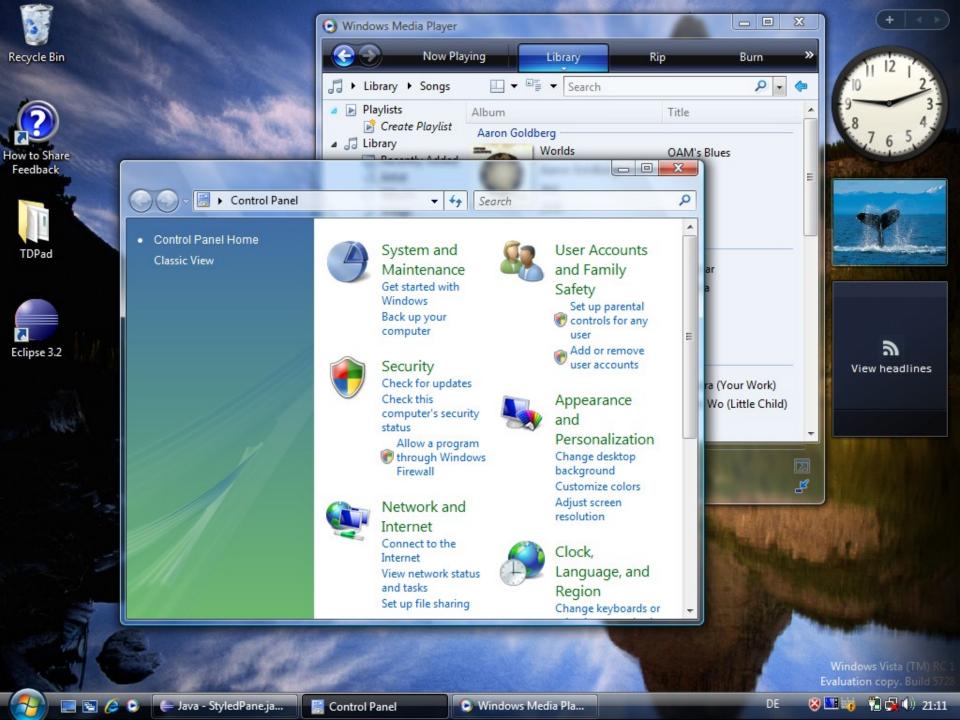
- Analyse a file tree
- Analyse D: \Install \Java
- Analyse D:\Programme\OpenOffice.org1.1.0
- Open a previously saved scan

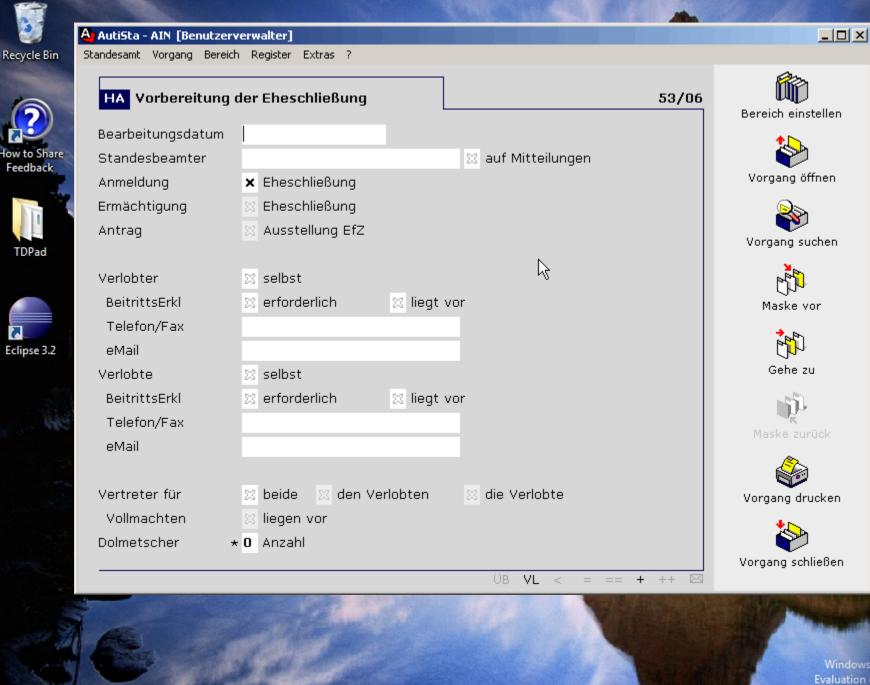
welcome

What do you want to do?

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

Exit





Windows Media Pla...

Control Panel

Java - StyledPane.ja...

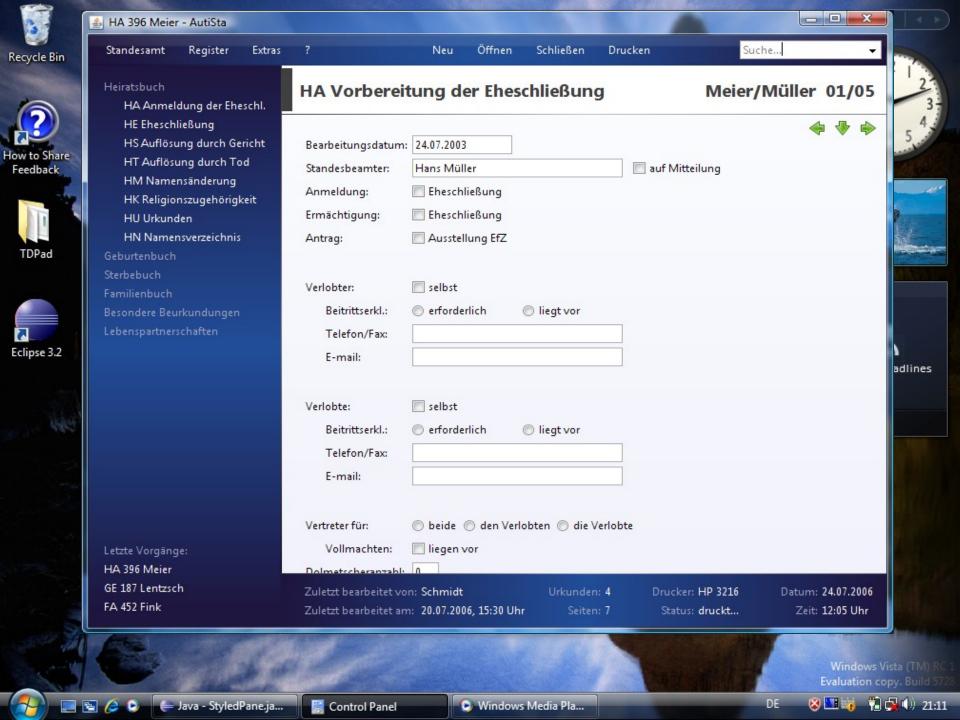
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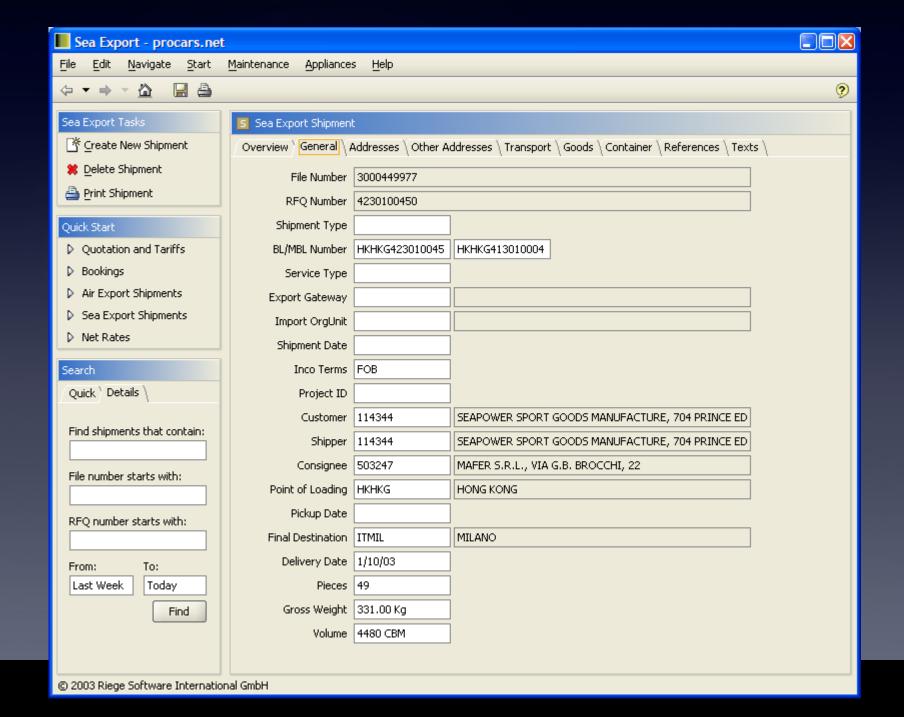




3

headlines













Neu + Bearbeiten Drucken

Anwendungen:

Belege

Kunden

Verwaltung:

Länder

Rechnungscodes

Hilfe:

Inhalt

Info

Belege

Nummer	Empfänger	Betreff	Erstellt	Endsumme	Status
2006-06-01	Schenker Düsseldorf	Beratung Mai 2006	05.07.2006	1.200,34 EUR	Bezahlt
2006-06-02	Schenker Düsseldorf	Consulting May 2006	05.07.2006	2.300,45 USD	Bezahlt
2006-06-03	Schenker Düsseldorf	Abschlag Projekt1	08.07.2006	10.000,00 EUR	Bezahlt
2006-06-04	Air France	Endrechnung Projekt1	08.07.2006	15.000,00 EUR	Bezahlt
2006-07-01	Air France	Beratung Juni 2006	01.08.2006	1.200,34 EUR	Eingereicht
2006-07-02	Schenker Düsseldorf	Reisekosten Juni 2006	01.08.2006	2.300,45 EUR	Eingereicht
2006-07-03	JGoodies Karsten Len	Abschlag Projekt1	03.08.2006	10.000,00 EUR	Eingereicht
2006-07-04	British Airways	Endrechnung Projekt1	03.08.2006	15.000,00 EUR	Eingereicht
2006-08-01	British Airways	Beratung Juni 2006	25.04.2007	1.000,00 EUR	Entwurf
2006-08-02	Schenker Düsseldorf	Beratung Juli 2006	25.04.2007	2.000,00 EUR	Entwurf
2006-08-03	Schenker Düsseldorf	Abschlag Projekt1	25.04.2007	10.000,00 EUR	Entwurf
2006-08-04	Schenker Düsseldorf	Endrechnung Projekt1	25.04.2007	15.000,00 EUR	Entwurf

Typ: Rechnung Nummer: 2006-07-04 Erstellt: 03.08.2006

Betreff: Endrechnung Projekt1

Status: Bestätigt

Empfänger: British Airways

Marketing

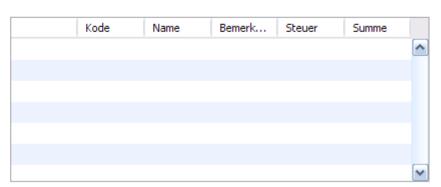
Piccadilly Circus 1 E13 9AZ London Great Britain

Offene Dokumente:

R2006-06-01

R2006-06-03

R2006-07-04



Endsumme: 10.348,32 EUR



Zusammenfassung

- Geeignete Schriften, Farben, Icons
- Entferne Unnötiges
- Reduziere bis zur Essenz
- Richte aus, gruppiere, beziehe, balanciere
- Strebe nach Konsistenz

Java-Bibliotheken

- L&Fs: Substance, JTatoo
- JGoodies Looks looks.dev.java.net
- JGoodies Forms forms.dev.java.net
- Sun's Swinglabs/Swingx

lcons

- Tango icons www.tango-project.org
- Eclipse icons www.eclipse.org

Bücher

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

Mehr Information

- Mac Aqua Guide
- Vista UX Guide
- JGoodies Articles www.JGoodies.com/articles

Fragen & Antworten

Gebote und Verbote für Swing

Karsten Lentzsch • JGoodies