#### Layout Essentials

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#### **Presentation Goal**

#### Learn about essentials for well-designed screens

Equal Widths

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		

Equal width indicate similar function

## Equal Line Heights

🛐 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 and Symmetry



Symmetric header&footer, left&right

## Stable Layout

🔶 Flange 1a		
Flange —		
Identifier	Flange 1a	
PTI [kW]	Powe	er [kW]
s [mm]		
Diameters		
da [mm]	,	di [mm]
da2 [mm]		2 [mm]
R [mm]		D [mm]
Critoria		
Criteria	Propeller nut thread  k	-factor
Location		
Bolts		
Material	C45E, ReH=600 🔹	
Numbers		
ds [mm]		

🗾 Segme	ent 1	
Segmen	ıt	
Identif	fier Segment 1	
PTI [k	w] [	Power [kW]
len [m	nm]	
Diamete	rs —	
da (m	1m]	di [mm]
da2 (m	nm]	di2 [mm]
R [m	nm]	D [mm]
Criteria		
Locat	ion Propeller nut thread 💌	k-factor
Connect		
Но	les 🔽 Has radial holes	
	ots 🔲 Has longitudinal slots	

Components shall not 'jump'

### Align Font Baselines

🛐 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		
19-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-			

#### 🌺 Adressen pflegen

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Daten Adresse ?				
D 🛩 🖬 🐰 🖻	æ			
Kennung: <mark>RUDI</mark>		Anrede:	Herrn	]
Name1: <mark>Rudi Runtime</mark>		Telefon1:		
Name2:		Telefon2:		
Name3:		Telefax:		
Straße: Auf dem Sch	ulweg 13	EMail:	rudi@runtime.de	
PLZ/Ort: 10629 Be	rlin		💌 privat	
Personen Notizen Ter	mine Schlagworte	Bemerku	ng	
Name	Name Funktion		Durchwahl	Privat
Karl Schneider Beratung		030 - 2	801 - 1000	
Karin Müller Sekretariat		030 - 2	801 - 0	

Poor alignment of components and font baselines

### Minimal Widths

#### For example buttons need a minimal width



### Scale with Font and Resolution

	Tip of the Day
Tip of the Day	🥥 Did you know
Did you know	You can navigate by clicking on an item in the <i>Size</i> presentation. You can either click on a pie, a bar, or a row in the details table.
In the <i>Preferences</i> you can set a custom command that you can invoke from the tool's popup menus.	To quickly go back, use the <i>Up</i> button or <i>Back</i> from the Popup menu.
For example, you can open your platform's default file viewer, execute a remove command, or launch a compression utility.	
Show tips on startup	Show tips on startup < Back Next > Close
96dpi	120dpi

# No Pixel Sizes in Screen Design!

#### Otherwise layout does not retain proportions

🎇 GridBagLayout 📃 🗖 🗙				
Name:	Karsten			
Phone:				
Fax:				
Email:				
Address:				

96dpi

🊨 Grid	BagLayout	
Name:		
Phone:		
Fax:		
Email:		
Address:		



# Appropriate White Space

鸄 Grid	BagLayout	
Name:		
Phone:		
Fax:		
Email:		
Address:		

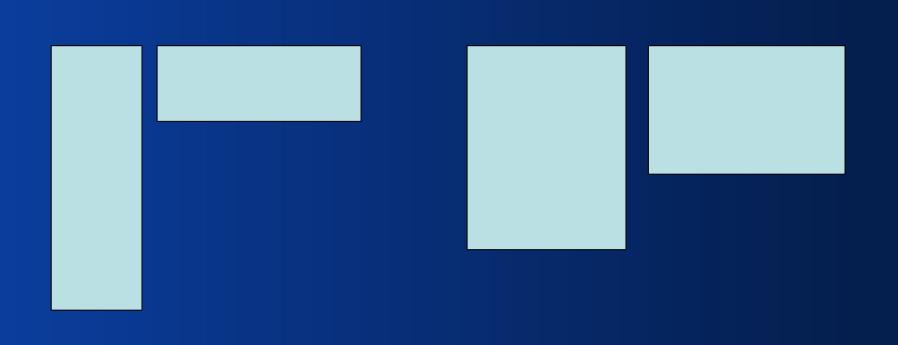
🌺 GridBa	gLayout
Name:	Karsten
Phone:	
Fax:	
Email:	
Address:	

Bad

Good

White space around components

#### Aesthetic Aspect Ratios



#### Instable



Stable vs. instable shapes

### References

- Design Specifications and Guidelines msdn.microsoft.com
- Aqua Human Interface Guidelines www.apple.com/developer/
- Grid Systems in Graphic Design Josef Müller-Brockmann
- JGoodies Forms www.JavaDesktop.org

# Readings: Design

#### Mullet & Sano: *Designing Visual Interfaces*

- All about: visual variables, scale, contrast, proportion, organization and visual structure
- Many useful examples
- Interesting and easy to read
- 250 pages with many screenshots