7-172590 1-725900 7-259008 2-590089 5-900897 9-008978 0-089783 9-783556 7-835568 8-355683 3-556830 5-568305 5-683058 6-830585

TiefCARS

The most flexible way to create LCARS Interfaces using Typst.

 $2038503437590223-4398072549052834-3540985420934750392843509872384-945837430859874345-4380543098423\\3409554098354334-6045938540945683-4350340985624984575167853218742-897843214842488945-6578964231564\\1451657445248941-4587564561234854-5468756486442468515246847915154-457854687431235357-9876514857324\\4579854578975213-7478941567354875-5798416575645443213576531457657-597851277421543487-5498445154872$

0-897835

8-978355

	Single Page Layout Suppor	t
0-585813		
5-858139	Demonstrating versatility for single page Documents or title pages.	
8-581395		
5-813953		
8-139539		
1-395398		
3-953987		
9-539876		
5-398765		
	9-876514	
	8-765142	
	The single-page-layout() function allows for easy creation of title pages or single page documents with special flair.	ı a
3-987651	Spooral Hull.	
7-651422		
6-514221		
5-142212		
1-422128		
4-221281		

TiefCARS Design System

7-963637

A somewhat complete page layouting system for Typst, imitating the LCARS User Interface (roughly)

1-281122

– Lena Tauchner

Introduction

0-617884

TiefCARS is a highly dynamic, customizable layouting and drawing library to easily generate elements similar to those seen in the Library Computer Access/Retrieval System (LCARS).

2-811220

Aside from its flexibility, TiefCARS is a highly dynamic library. It offers multiple simple ways to generate an initial document, responds to dynamic page sizes and allows theming.

8-112200

With its modular architecture, using pseudo-random number generators for colors and text, the output is both predictable on a per-compile basis and modular.

Reasoning for Development

0-617884

When creating props, one either designs their own LCARS interface via some sort of manual editor (Inkscape, Gimp, ...), which costs time and sometimes results in less than satisfactory outcomes, or they may download preset templates. Either way is not flexible for props that are either custom or in active use (and changing).

1-122008

That's why a library for typst, allowing creative and flexible typesetting, is necessary for any prop designer. Using this library, one can create PADD content, screen elements, ..., without the hassle of placing individual items on a screen.

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Elements

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TiefCars ships with a variety of elements, ready to be used. Among the buttons and sweeps, there are also more complex examples like sidebars.

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Button

onnn

The button is a material part of any UI/UX Design, and thus needs to be implemented in TiefCARS. A button is inserted USING #buttons.button(variant)[Content]

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Content

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A button also allows custom insets: #buttons.button(3, inset: (left: 12pt, top: 2pt, right: 4pt, bottom: 7pt))[Content]

0-890931

Content \

8-909312

Sidebar Button

.

The sidebar of an LCARS interface does not use the usual buttons, instead relying on rectangular buttons with a text in the bottom right. This is displayable via the #sidebar.sidebar-button(40pt, 100pt) COMMand:

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Sidebar buttons also allow for further customization like the color and the text displayed: #sidebar.sidebar-button(40pt, 100pt, color: red, elem-text: "TiefCARS <3")

9-312113

TiefCARS <3

Sweeps			
There are four variants of sweeps available, all function	ing in the same way:		
sweeps.bottom-left-sweep	sweeps.bottom-right-sweep	1-131265	
0-617884	0-617884		
sweeps.top-left-sweep	sweeps.top-right-sweep	1-312657	
0-617884	0-617884		
Each sweep requires three parameters: height, width an theme.accent.a-5)	3-126570		
A sweep may also include the following parameters: sw	eep-text, sweep-width.	1-265704	
#sweeps.bottom-left-sweep(20pt, 100pt, gree	n, sweep-text: "Toaster", sweep-width: 200pt)		
Toaster		2-657041	
#sweeps.bottom-left-sweep(20pt, 100pt, blue	2 001011		
Toaster	6-570417		
Other elements		0 370417	
Other elements Less relevant/mostly internal elements are: sidebar-bar.	E 704170		
These are not discussed in this document.	5-704172		
		7-041725	
Layouting			
Single Page Layout		0-617884	
See Page 1; creates a layout with the iconic horizontal bar. Allows adding text, subtext, and a limited body.			
<pre>#single-page-layout(title: [Your Title],</pre>	0-417252		
<pre>subtitle-text: [</pre>			
Text for your subtitle]		4-172529	
], top-height: 5,			
)[Main Body		1-725292	
]		TIEGEOL	
Multi Page Layout		7-252927	
The current layout. Allows multipage-input, dynamically	I ZJZJZI		
<pre>#multi-page-layout(odd-even: false,</pre>		0 500070	
sidebar-width: 50pt,		2-529278	
)[Content			
] Or if only showing one multi page layout in a decument		5-292780	
Or, if only showing one multi page layout in a document #show: multi-page-layout.with(
#snow: multi-page-layout.with(title: "My amazing document"		2-927807	
= Content	9-278079		
		2-780795	

Theming

0-617884

TiefCARS offers multiple ways of theming, among them preset themes as well as creating a custom theme.

Preset themes are selected with the theme parameter of the tiefcars function:

```
#show: tiefcars.with(theme: "nemesis-blue")
```

See the example 3 in examples/ for the available themes.

You can also include a custom theme:

```
#show: tiefcars.with(theme: (
 accent: (
   a-0: color.rgb("cc99ff"),
   a-1: color.rgb("ffaa90"),
   a-2: color.rgb("ffbbaa"),
    a-3: color.rgb("ff8866"),
    a-4: color.rgb("8899ff"),
    a-5: color.rgb("cc5599"),
    a-6: color.rgb("ffaa00"),
    a-7: color.rgb("f5f6fa"),
   a-8: color.rgb("666688"),
   a-9: color.rgb("99ccff"),
  red: color.rgb("cc4444"),
  green: color.rgb("999933"),
  heading: color.rgb("ffaa00"),
  bg: luma(5%),
  fg: white,
  elem-fg: black,
))
```

Note that all fields are required for the template to compile!

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7-721153

7-211531

2-115316

1-153169

1-531699

5-316999

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Flexibility

TiefCARS is built for flexibility - different page formats are, of course, supported.

You can build beautiful post cards or business cards with TiefCARS!

Keep in mind that the layouting is configurable - make it just right for your project using optional parameters.

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Contribution guidelines

There's not really much to consider, other than the request to keep a folder structure. Components go into components/, \$0 ON.

Theming can always be expanded and may be a simple entry point, that'd be nice :)

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