

TUC 2019 THEME FOR LTX-TALK

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Ltx-Talktheme with the corporate design of the Chemnitz University of Technology

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<https://github.com/werner-matthias/osglecture>

This is a theme for the [ltx-talk](#) presentation class and (roughly) replicates the 2019 corporate design of Chemnitz University of Technology. The package requires the [ltxtalk-theme](#) theme engine.

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1 Quick start

Load the theme after the class and activate it. Package options belong on `\usepackage`; subsequent switches apply to the next frame.

```
1 \DocumentMetadata{}  
2 \documentclass{ltx-talk}  
3 \usepackage[fakcolor=if,funcolor=adapted]{ltxtalk-theme-tuc-2019}
```

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```

4 \useltxtalktheme{tuc-2019}
5
6 \title[Kurztitel]{Titel der Präsentation}
7 \subtitle{Untertitel}
8 \author{Vorname Nachname}
9 \institute{Institut oder Professur}
10 \date{5. August 2026}
11
12 \begin{document}
13 \maketitle[osg]
14 \begin{frame}
15   \frametitle{Erste Folie}
16   Inhalt
17 \end{frame}
18 \end{document}

```

1.1 Roboto font bundle

The optional bundle deliberately keeps the corporate design entirely in Roboto: body copy, supporting text, headings, and emphasis are distinguished by size, weight, and colour rather than by an additional slab serif. Inconsolata complements Roboto as a space-efficient code face. Its narrower glyphs fit noticeably more characters on a typical source line than Roboto Mono without abandoning the open shapes. Fira Math is a complete sans-serif Unicode mathematics face with a similarly matter-of-fact, humanist character. The option selects the mathematics face when the theme is activated, via the [lua-unicode-math](#) loaded by [ltx-talk](#); only where that is absent does it load [unicode-math](#) for the purpose.

```

1 \usepackage[fonts=roboto]{ltx-talk-theme-tuc-2019}
2 \useltxtalktheme{tuc-2019}
3
4 % Für eigene Slots stehen semantische Rollen zur Verfügung:
5 \styleltxtalkslot{mein-code}{font-slot=code,font=\small}

```

1.2 Package options

fakcolor=...	tuc, natwi, ma, mb, etit, if, wiwi, phil oder hsw; Vorgabe ist tuc.
funccolor=...	original, adapted oder uniq; Vorgabe ist adapted.
chemnitz2025	Verwendet das Jubiläumslogo. Bei englischer Dokumentsprache wird automatisch tuckhseng_white gewählt.

fonts=... default belässt die Schriften der Klasse; roboto aktiviert das TUC-Schriftbündel aus Roboto für Text und Überschriften, Inconsolata für Code und Fira Math für Mathematik.

```

1 % Fakultät Informatik, angepasste Funktionsfarben, Jubiläumslogo
2 \usepackage[
3   fakcolor=if,
4   funccolor=adapted,
5   fonts=roboto,
6   chemnitz2025
7 ]{ltxtalk-theme-tuc-2019}

```

2 Selecting colors

Select the faculty color with fakcolor. The theme also exposes it as tucolor, ltxtalk-primary, and structure; the light variant is ltxtalk-secondary.

	tuc 0,95,80		natwi 112,112,111
	ma 161,11,112		mb 18,51,117
	etit 228,3,45		if 74,130,70
	wiwi 157,7,54		phil 198,83,6
	hsw 0,117,191		

2.1 Faculty schemes with adapted

Each scheme shows the colors actually used for structure, ltxtalk-secondary, tucolor@info, tucolor@warning, and tucolor@danger.

	tuc		natwi		ma
structure		structure		structure	
2nd		2nd		2nd	
info		info		info	
warning		warning		warning	
danger		danger		danger	

2 Selecting colors

mb		etit		if	
structure		structure		structure	
2nd		2nd		2nd	
info		info		info	
warning		warning		warning	
danger		danger		danger	
wiwi		phil		hsw	
structure		structure		structure	
2nd		2nd		2nd	
info		info		info	
warning		warning		warning	
danger		danger		danger	

For notices, warnings and danger, choose the original colors, faculty-specific colors, or one harmonized set. The results are available as `tuccolor@info`, `tuccolor@warning`, `tuccolor@danger`, `example`, and `alert`.

	Info	Warnung	Gefahr
original			
uniq			

The block environments `block`, `alertblock` and `exampleblock` get a solid header band – `block` in the faculty colour, `alertblock` in warning, `exampleblock` in info – above an indented body set in the text stream. The band echoes the page header and builds no box, so PDF tagging matches that of the `ltx-talk` class.

```

1 \begin{block}{Information} ... \end{block}
2 \begin{alertblock}{Achtung} ... \end{alertblock}
3 \begin{exampleblock}{Beispiel} ... \end{exampleblock}
4 {\color{example} Beispieltext}
5 {\color{alert} Warntext}

```

3 Configuring the header

First select a content instance, then the number of lines. Both commands may appear immediately before a frame.

Instanz	zwei Zeilen	drei Zeilen
title	Titel / Untertitel	Titel / Untertitel / Institut
section	Section / Subsection	Titel / Section / Subsection
teaching	Kurs-Vorlesung / Section	Kurs / Vorlesung / Section
custom	Zeile 1 / Zeile 2	Zeile 1 / Zeile 2 / Zeile 3

With teaching and a lecture/chapter number set through `osglecture` (`\OsgLectureDeploymentChapter`, or a `\thechapter` adopted from the base class), three spots consistently show the same number: the title page prefixes “ $\langle number \rangle$. Chapter: ” to the lecture title, the header prefixes “ $\langle number \rangle$. ” to the lecture title, and the footer shows “ $\langle number \rangle - \langle frame number \rangle$ ” instead of “frame number of total count”. On first switching to teaching, chapter is also added to the list of counters continued through `osglecture`, without replacing an already-set list. Without a number set (or without `osglecture` at all), all three spots stay unchanged.

```

1 \settucthemeheader{section}
2 \tucthreeheader
3 \begin{frame}
4   \frametitle{Dreizeiliger Section-Header}
5 \end{frame}
6
7 \settucthemeheaderlines{Projektname}{Arbeitspaket 2}{Statusbericht}
8 \tucthreeheader
9 \begin{frame}
10  \frametitle{Explizite Kopfzeilen}
11 \end{frame}

```

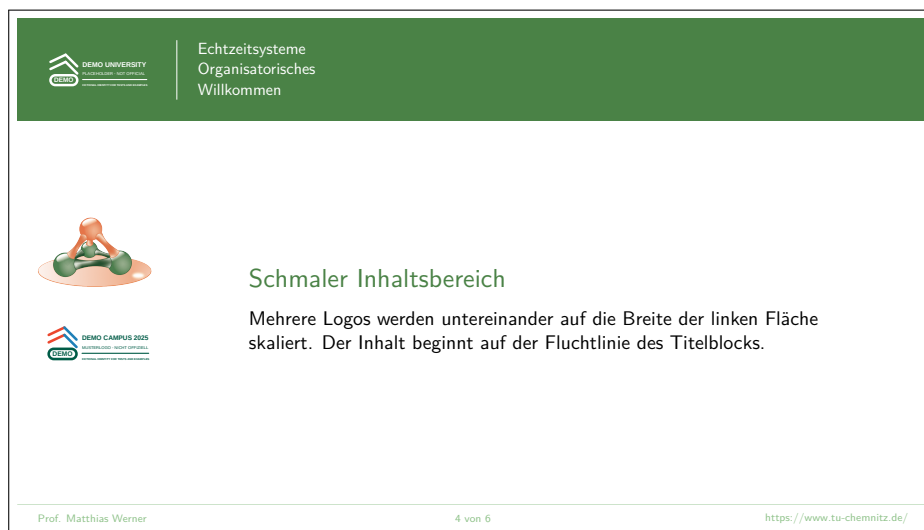
4 Content width and left logos



4 Content width and left logos

Use `\tucwideframe` for full width. With `\tucnarrowframe`, content starts on the title block's alignment line. Set left-area logos as a comma-separated file list; `\addtucthemeleftlogo` appends one logo.

```
1 \settucthemeleftlogos{
2   images/logos/osg.png,
3   images/logos/project.pdf
4 }
5 \tucnarrowframe
6 \begin{frame}
7   \frametitle{Projektfolie mit Logos}
8   Schmäler Inhalt
9 \end{frame}
10
11 \tucwideframe
12 \begin{frame}
13   \frametitle{Die nächste Folie nutzt wieder die volle Breite}
14 \end{frame}
```



5 Logos and footer

Without `\settucthemelogo`, the theme selects the university logo from the package option and document language. An explicit logo takes precedence. Paths follow `\includegraphics` and are relative to the main document.

```
1 \settucthemelogo{images/logos/eigenes-headerlogo.pdf}
2 \settucthemetitlelogo{images/logos/veranstaltung.pdf}
3 \settucthemetitlelogoraise{0pt}
4 \settucthemearl{\url{https://www.tu-chemnitz.de/}}
```

6 Title pages

Select the instance persistently with `\settucthemetitle`, or directly through the optional argument of `\maketitle`. Use `\maketitle` outside a frame environment.

6.1 osg

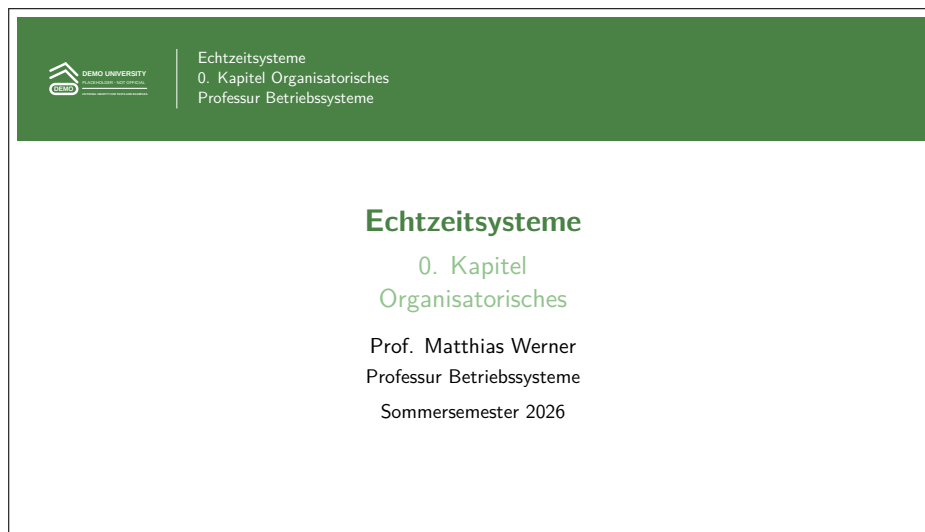
```
1 \settucthemetitlelogo{images/logos/osg.png}
2 \settucthemetitlelogoraise{0.21cm}
3 \maketitle[osg]
```

6 Title pages



6.2 talk

```
1 \settuothemetitlelogo{images/logos/conference.pdf}  
2 \maketitle[talk]
```

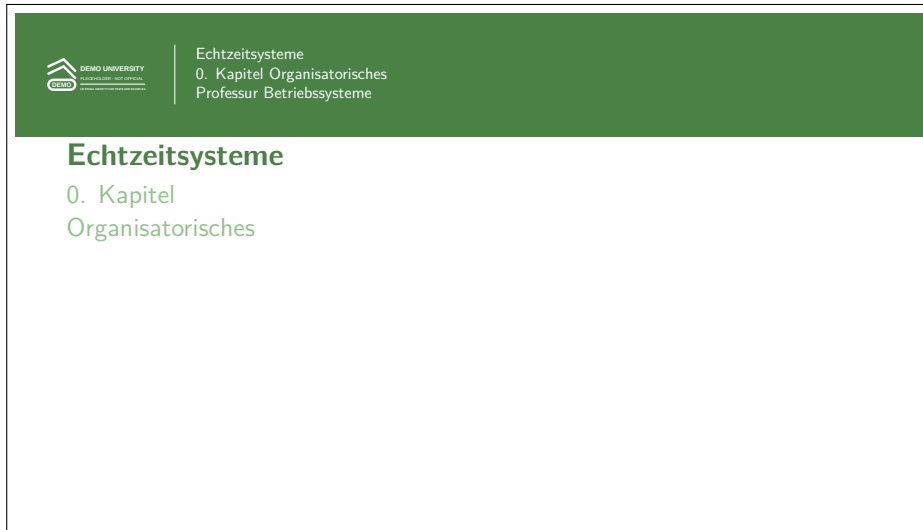


6.3 image

```

1 % top, center oder bottom bestimmt die vertikale Beschnittkante
2 \settucthemetitleimage[center]{images/title-photo.jpg}
3 \maketitle[image]

```



7 Command reference

`\settucthemelogo{⟨Datei⟩}`

Overrides automatic logo selection. Omit it when chemnitz2025 and the document language should select the logo.

`\settucthemetitlelogo{⟨Datei⟩}`

Sets the additional logo for the osg and talk instances.

`\settucthemetitlelogoraise{⟨Länge⟩}`

Compensates for transparent margins in a logo file. Use 0.21cm for the OSG logo and usually 0pt for tightly cropped files.

`\settucthemeurl{⟨Webadresse⟩}`

Configures the web address. Pass `\url{⟨address⟩}` to make it clickable.

`\maketitle[⟨osg/talk/image⟩]`

`\maketuctitle`

Use outside a frame environment. The optional argument selects the instance. The compatibility command uses the previously selected instance.

`\settucthemeheader{⟨Instanz⟩}`

`\settucthemeheaderlines{⟨Zeile 1⟩}{⟨Zeile 2⟩}{⟨Zeile 3⟩}`

Selects the header instance or sets the three lines of the custom instance.

`\tuctwoheader`

`\tucthreeheader`

Switches between two and three header lines before a frame.

`\tucwideframe`

`\tucnarrowframe`

`\settucthemelleftlogos{⟨kommaseparierte Dateien⟩}`

Switches the content width and fills the narrow layout's left area with one or more logos.

`\settucthemetitle{⟨Instanz⟩}`

`\settucthemetitleimage[⟨Beschnitt⟩]{⟨Datei⟩}`

Selects the osg, talk, or image title page. The optional image argument controls vertical cropping.

8 Implementation

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