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## Beamer Template of the Signal Processing Group

This is how the subtitle looks

University of Hamburg

Department of Informatics

March 15, 2018

1. Predefined Colors
2. Itemize and Enumerate
3. Blocks
4. Citations
5. Audio
6. TikZ Extensions



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## Predefined Colors

- Predefined colors are
  - `uhhblue` `rgb(0,156,209)`
  - `uhhgreen` `rgb(66,178,60)`
  - `uhhred` `rgb(226,0,26)`
  - `uhhblack` `rgb(0,0,0)`
  - `uhhstone` `rgb(59,81,91)`



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## Itemize and Enumerate

## Itemize Environment

- First level
  - Second Level
    - Third level
- ✓ This is good (`\cmark`)
- ✗ This is bad (`\xmark`)
- This is follows from the upper points (`\filledrightarrow`)
  - This follows → inline (`\filledrightarrow[uhhhblue]`)

## Enumerate Environment

1. First level
  - 1.1 Second level
    - 1.1.1 Third level



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# Blocks



## Block Demonstration

## This is the Block Title

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris. Nam arcu libero, nonummy eget, consectetur id, vulputate a, magna. Donec vehicula augue eu neque. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Mauris ut leo. Cras viverra metus rhoncus sem. Nulla et lectus vestibulum urna fringilla ultrices. Phasellus eu tellus sit amet tortor gravida placerat. Integer sapien est, iaculis in, pretium quis, viverra ac, nunc. Praesent eget sem vel leo ultrices bibendum. Aenean faucibus. Morbi dolor nulla, malesuada eu, pulvinar at, mollis ac, nulla. Curabitur auctor semper nulla. Donec varius orci eget risus. Duis nibh mi, congue eu, accumsan eleifend, sagittis quis, diam. Duis eget orci sit amet orci dignissim rutrum.



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## Citations

- Another citation<sup>[1]</sup>
- Always cite Timo<sup>[2]</sup>
- Bibliography can be included on any slide

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[1] breithaupt\_parameterized\_2008.

[2] gerkmann\_improved\_2008.

[3] gerkmann\_bayesian\_2014.




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# Audio

- Play some sound: 
- Realized using `\spaudio{audioexamples/timit.mp3}`
- switch for Acrobat Reader in `beamersp2017.sty` `\usepackage[acrobat]{beamersp2017}`



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## TikZ Extensions

## Overlay Effects in TikZ Images



- `visible on=<num-num>`: make node edge visible on that slide

## Overlay Effects in TikZ Images



- `visible on=<num-num>`: make node edge visible on that slide



## Overlay Effects in TikZ Images



- `visible on=<num-num>`: make node edge visible on that slide

## Overlay Effects in TikZ Images



- `visible on=<num-num>`: make node edge visible on that slide

## Overlay Effects in TikZ Images



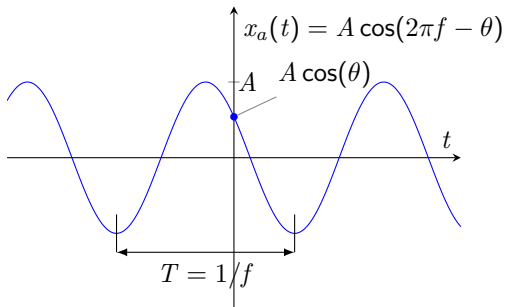
- `visible on=<num-num>`: make node edge visible on that slide
- `onslide={<num-num>style}`: apply style on given slides

## Standalone Legends

— Entry 1                      ■ Entry 2  
◆ Entry 3 with comments – ● – Entry 4

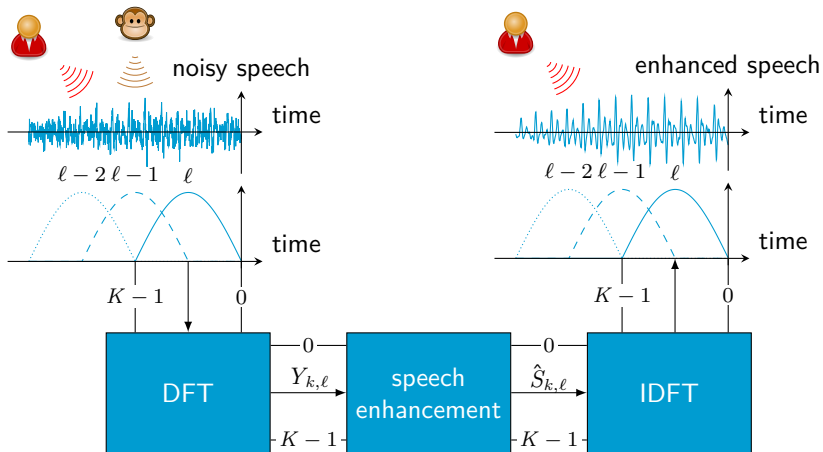
- Custom legends using `customlegend` environment

## A Sine in TikZ



- Demo on how to plot a sine in TikZ

## An STFT Framework in TikZ



## An STFT Framework in TikZ

- Some notes on the STFT framework picture
- It requires the following files
  - `data/STFT.tex`
  - `graphics/PersonRed.pdf`
  - `graphics/Monkey.pdf`
- Changing the folders of these files requires editing of the graphic itself
- The graphic itself is given in `graphics/STFT.tex`