

# Piraten-L<sup>A</sup>T<sub>E</sub>X

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**piratenpartei**

[www.piratenpartei.ch](http://www.piratenpartei.ch)



**piratenpartei**

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# Essential Tools

## Distribution

MikTeX (<http://miktex.org/>)

## Editor

- Notepad++
- TeXnicCenter
- TexMaker

# Essential Tools

## Distribution

TexLive (sudo apt-get install texlive-full)

## Editor

- emacs
- vi
- nano
- TexMaker



# git

git

git (<http://git-scm.com/>) tortoise git

(<http://code.google.com/p/tortoisegit/>)



## git clone

### git clone

- Explorer right click
- Git Clone...
- Url: <http://projects.piratenpartei.ch/git/mmd.git>





# git

```
git
```

```
sudo apt-get install git
```



# git

```
git
```

```
git clone http://projects.piratenpartei.ch/git/mmd.git
```



## Lets start...

Simple text is just simple text \\ < new line

nowadays äöü should work out of the box

\$formulas go between\$

Special charcters: \ { } \_ ^ # & \$ % ~

need to be escaped with \

\chapter, \section, \subsection, \subsubsection

% Comments start with a percent sign

# Bold

Bold Text

We want **bold text**

We want `\textbf{bold text}`



# Emphasize!

## Italic, Slanted, Emphasized Text

We want *italic text*, *slanted text*, *emphasized text*

## Italic Text Source

```
\textit{italic text},  
\textsl{slanted text},  
\emph{emphasized text}
```

# Bold

**Bold Text**

**Left**

**Center**

**Right**

```
\begin{flushleft} Left \end{flushleft}
```

```
\begin{center} Center \end{center}
```

```
\begin{flushright} Right \end{flushright}
```



# itemize

## Title

- item
- item

## Title

```
\begin{itemize}  
\item item  
\item item  
\end{itemize}
```



# enumerate

## Title

- 1 item
- 2 item

## Title

```
\begin{enumerate}  
  \item item  
  \item item  
\end{enumerate}
```





# table

## Title

7C0	hexadecimal
3700	octal
11111000000	binary
1984	decimal



## table source

Title

```
\begin{tabular}{|r|l|}  
  \hline  
  7C0 & hexadecimal \\  
  3700 & octal \\ \cline{2-2}  
  11111000000 & binary \\  
  \hline \hline  
  1984 & decimal \\  
  \hline  
\end{tabular}
```



# Formulas

## Formulas

$$\int \frac{1-\cos x}{1-\cos^2 x} dx = \int \frac{1-\cos x}{\sin^2 x} dx = \int \left( \frac{1}{\sin^2 x} - \frac{1}{\sin x \tan x} \right) dx$$

## Matrix

$$\begin{pmatrix} 9 & 8 & 6 \\ 1 & 2 & 7 \\ 4 & 9 & 2 \\ 6 & 0 & 5 \end{pmatrix}$$



## Formula Source

### Formula Source

```
\int \frac{1-\cos x}{1 - \cos^2 x} dx  
= \int \frac{1-\cos x}{\sin^2 x} dx  
= \int \left( \frac{1}{\sin^2 x}  
- \frac{1}{\sin x \tan x} \right) dx
```

### Matrix Source

```
\begin{pmatrix}  
9 & 8 & 6 \\ 1 & 2 & 7 \\ 4 & 9 & 2 \\ 6 & 0 & 5  
\end{pmatrix}
```

# Graphics

## Graphics



## Graphics Source

```
\includegraphics [width=3cm,height=3cm] {qrcode.png}
```



## Appear Source

```
\begin{itemize}
\item<2-> appears from slide 2 on
\item<2-4> appears from slide 2 to slide 4
\item<4> appears on slide 4
\item<3-> appears from slide 3 on
\end{itemize}
```



Appear



## Appear

- appears from slide 2 on
- appears from slide 2 to slide 4



## Appear

- appears from slide 2 on
- appears from slide 2 to slide 4
  
- appears from slide 3 on



## Appear

- appears from slide 2 on
- appears from slide 2 to slide 4
- appears on slide 4
- appears from slide 3 on



# Examples

- bill.tex
- letter.tex
- article.tex
- presentation.tex
- report.tex



## selectlanguage

```
\selectlanguage{english}  
\selectlanguage{french}  
\selectlanguage{italian}  
\selectlanguage{ngerman}
```



## usepackage ppsXX

```
\usepackage{ppsag} % Aargau  
\usepackage{ppsbb} % Beide Basel  
\usepackage{ppsbe} % Bern / Berne
```



# UTF8

## UTF8

Be sure to use an editor which understands UTF8, save text files as UTF8, Text-Encoding UTF8.



# XeLaTeX

## XeLaTeX

Only if you use XeLaTeX to compile the tex file you will get the correct Aller Font.

F

or TeXnicCenter users: you will have problems!



# Fonts

## Fonts

Install the Aller Fonts. And don't forget to use xelatex command.

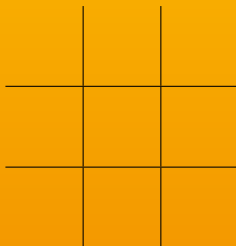
## TTL Fonts on Linux

On Linux Machines: install the TTF fonts in your home directory or globally.

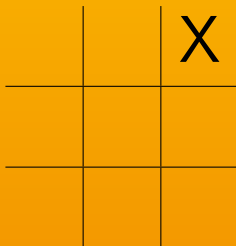




# Tic-Tac-Toe via tabular



# Tic-Tac-Toe via tabular



# Tic-Tac-Toe via tabular

		X
	O	



# Tic-Tac-Toe via tabular

		X
	O	
		X

# Tic-Tac-Toe via tabular

		X
	O	O
		X

# Tic-Tac-Toe via tabular

		X
X	O	O
		X



## Tic-Tac-Toe via tabular

		X
X	O	O
	O	X

## Tic-Tac-Toe via tabular

	X	X
X	O	O
	O	X



## Tic-Tac-Toe via tabular

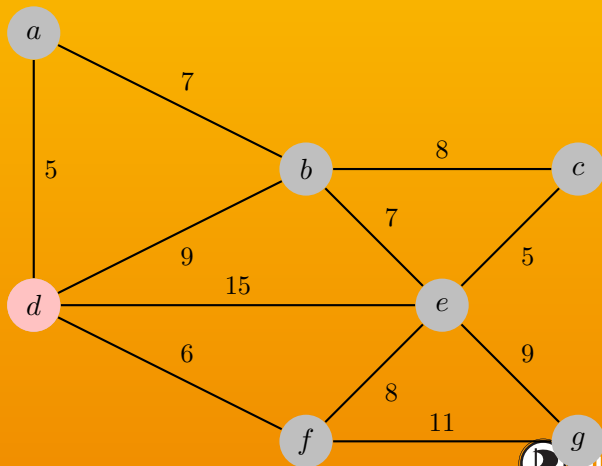
O	X	X
X	O	O
	O	X



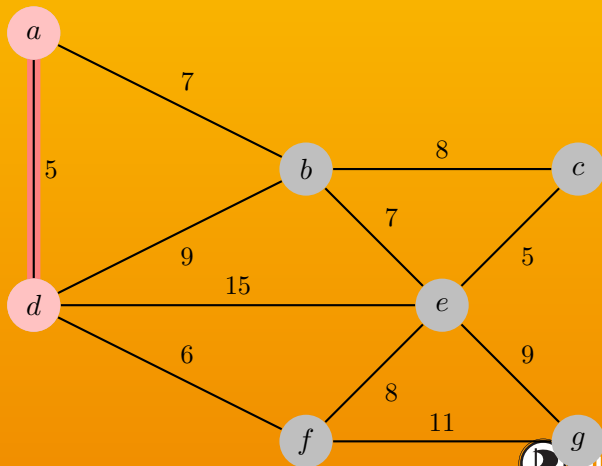
## Tic-Tac-Toe via tabular

O	X	X
X	O	O
X	O	X

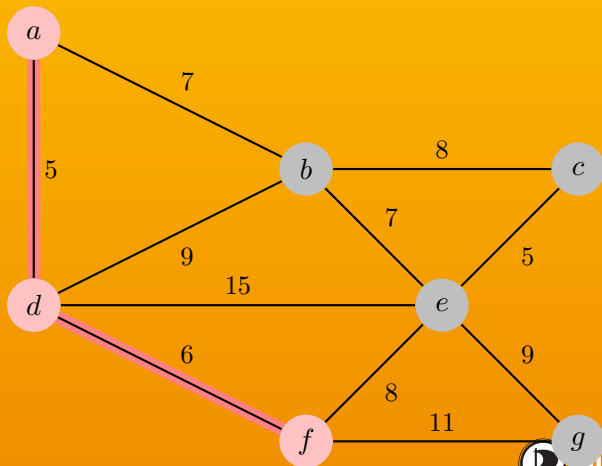
# Prim's algorithm



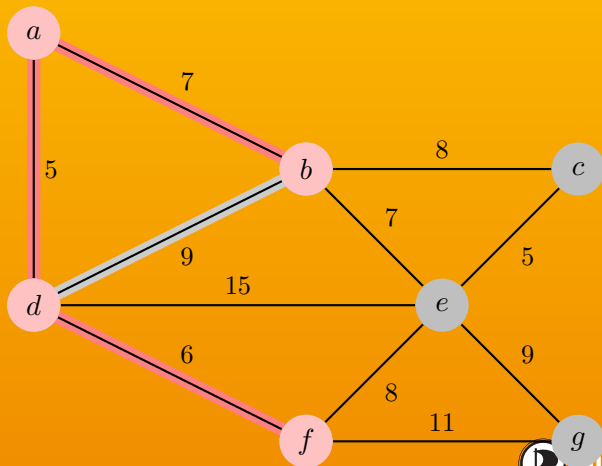
# Prim's algorithm



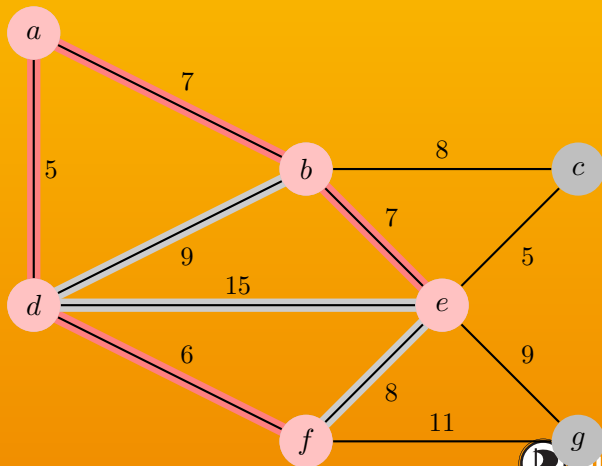
# Prim's algorithm



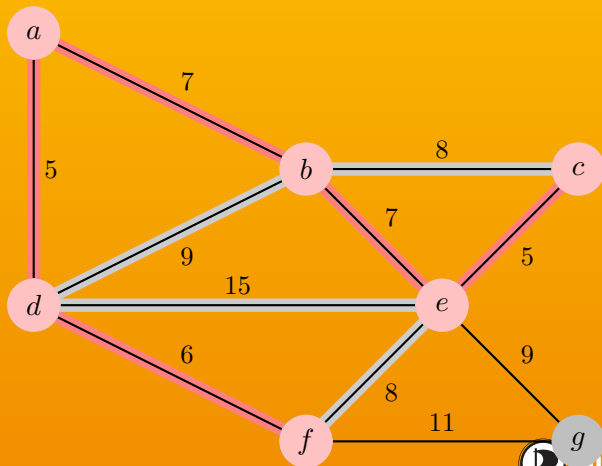
# Prim's algorithm



# Prim's algorithm



# Prim's algorithm





# Prim's algorithm

