AMLaTeX

Introduction Presentation

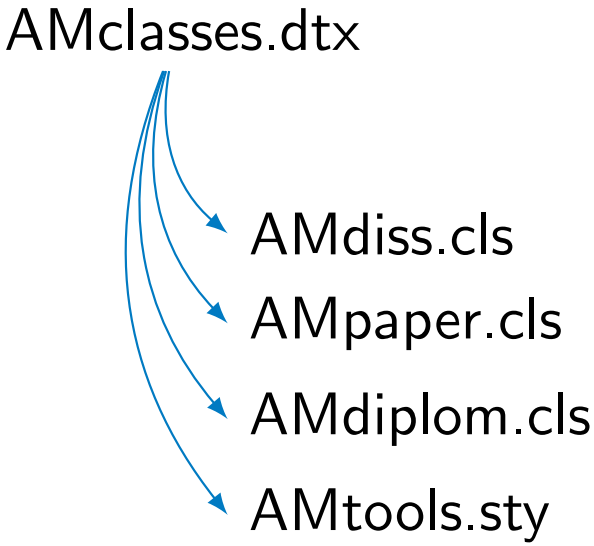
September 23, 2015

Romain Pennec

Questions you may have

- Why new classes?
- Is it compatible with the current classes?
- What are the differences?
- How to install it on my computer?
- Where can I find the documentation?
- Does it changes the way I tex?
- What about the students?
- How to contribute?
- Which AMlatex directory is the right one?

Until now...



- Classes are copied in the directory
- Logos are copied in the directory
- Modification is only local
- Bases on KOMA-Script

Soon...

- Minimal package restriction
- Many independent packages
- One `dtx`-file for each package/class
- Modern standards for LaTeX
- Development supported by `Git`
- Possible to share modifications
- Clean working directory

Already available

packages:

AMcolor	AMmath	AMbiblio
AMfont	AMgraphic	AMlang
AMlayout	AMlogo	AMref
AMtitlepage	AMtikz	AMutils

classes:

AMbeamer	AMmasterArbeit	AMdocumentation
AMposter	AMbachelorArbeit	AMsemesterArbeit

AMcolor

TUMBlue TUMGreen TUMOrange TUMIvory

TUMDiag1 TUMDiag7 TUMDiag13
TUMDiag2 TUMDiag8 TUMDiag14
TUMDiag3 TUMDiag9 TUMDiag15
TUMDiag4 TUMDiag10 TUMDiag16
TUMDiag5 TUMDiag11 TUMDiag17
TUMDiag6 TUMDiag12 TUMDiag18

TUMGray TUMDarkGray TUMLightGray

AMmath

e	`\e`	$\mathrm{d}x$	`\dd`
Re	`\konstante{Re}`	$\dot{\boldsymbol{r}}$	`\vdot\{r\}`
$\mathrm{const.}$	`\const`	$\ddot{\boldsymbol{r}}$	`\vddot\{r\}`
prox	`\prox`	$\boldsymbol{\mathrm{prox}}$	`\vprox`
$\mathbb{R}$	`\MR`	$\mathbb{C}$	`\MC`
$\mathbb{Q}$	`\MQ`	$\mathbb{Z}$	`\MZ`
$\nVdash$	`\Mone`	$\mathbb{N}$	`\MN`
$\mathrel{\widehat{=}}$	`\eqhat`	$\mathrel{\overset{!}{=}}$	`\eqexcl`
$\mathrel{\overset{\mathrm{def.}}{=}}$	`\eqdef`	$\coloneqq$	`\defined`
asin	`\asin`	acos	`\acos`
atan	`\atan`	div	`\dive`
sgn	`\sgn`	$\mathrm{O}(n)$	`\order(n)`
$\mathrm{Re}\{A\}$	`\real\{A\}`	$\mathrm{Im}\{A\}$	`\imag\{A\}`
$\lvert\boldsymbol{A}\rvert$	`\abs{\vA}`	$\lVert\boldsymbol{A}\rVert$	`\norm{\vA}`
$\mathrm{proj}_{\boldsymbol{e}}\,\boldsymbol{r}_{OK}$	`\proj_{\ve}\vr_{OK}`	$\frac{\partial f(x)}{\partial x_j}$	`\pdiff{f(x)}{{x_j}}`

AMmath

$\mathbf{0}$	\vnull	$\mathbf{1}$	\vone				
$\boldsymbol{a}$	\va	$\boldsymbol{b}$	\vb	$\boldsymbol{c}$	\vc	$\boldsymbol{d}$	\vd
$\boldsymbol{e}$	\ve	$\boldsymbol{f}$	\vf	$\boldsymbol{g}$	\vg	$\boldsymbol{h}$	\vh
$\boldsymbol{i}$	\vi	$\boldsymbol{j}$	\vj	$\boldsymbol{k}$	\vk	$\boldsymbol{l}$	\vl
$\boldsymbol{m}$	\vm	$\boldsymbol{n}$	\vn	$\boldsymbol{o}$	\vo	$\boldsymbol{p}$	\vp
$\boldsymbol{q}$	\vq	$\boldsymbol{r}$	\vr	$\boldsymbol{s}$	\vs	$\boldsymbol{t}$	\vt
$\boldsymbol{u}$	\vu	$\boldsymbol{v}$	\vv	$\boldsymbol{w}$	\vw	$\boldsymbol{x}$	\vx
$\boldsymbol{y}$	\vy	$\boldsymbol{z}$	\vz				
$\boldsymbol{\alpha}$	\valpha	$\boldsymbol{\beta}$	\vbeta	$\boldsymbol{\gamma}$	\vgamma	$\boldsymbol{\delta}$	\vdelta
$\boldsymbol{\varepsilon}$	\vepsilon	$\boldsymbol{\zeta}$	\vzeta	$\boldsymbol{\eta}$	\veta	$\boldsymbol{\vartheta}$	\vtheta
$\boldsymbol{\iota}$	\viota	$\boldsymbol{\kappa}$	\vkappa	$\boldsymbol{\lambda}$	\vlambda	$\boldsymbol{\mu}$	\vmu
$\boldsymbol{\nu}$	\vnu	$\boldsymbol{\xi}$	\vxi	$\boldsymbol{\pi}$	\vpi	$\boldsymbol{\varrho}$	\vrho
$\boldsymbol{\sigma}$	\vsigma	$\boldsymbol{\tau}$	\vtau	$\boldsymbol{\upsilon}$	\vupsilon	$\boldsymbol{\varphi}$	\vphi
$\boldsymbol{\chi}$	\vchi	$\boldsymbol{\psi}$	\vpsi	$\boldsymbol{\omega}$	\vomega		
$\mathbf{\Gamma}$	\vGamma	$\mathbf{\Delta}$	\vDelta	$\mathbf{\Theta}$	\vTheta	$\mathbf{\Lambda}$	\vLambda
$\mathbf{\Xi}$	\vXi	$\mathbf{\Pi}$	\vPi	$\mathbf{\Sigma}$	\vSigma	$\mathbf{\Upsilon}$	\vUpsilon
$\mathbf{\Phi}$	\vPhi	$\mathbf{\Psi}$	\vPsi	$\mathbf{\Omega}$	\vOmega		

How to install AMlatex?

1. Get a AMLaTeX texmf directory
2. Make your system aware of it

Where?

- `common/Vorlagen/AMlatex/texmf`
- `software/AMlatex/texmf`
- intranet → LaTeX → zip-Archiv
- `https://gitlab.lrz.de/AM/AMlatex/wikis/Releases`

On Windows (MiKTEX)

1. Open MiKTEX settings (Admin)
2. Go in tab “Roots”
3. Add texmf path (example: `software/AMlatex/texmf`)
4. Go in tab “General”
5. Clic button “Refresh FNDB”

On Linux

Easy way: enter in a terminal

```
$> cd common/Vorlagen/AMlatex/
$> ./setup.sh install texhash default
```

With Git:

```
$> git clone git@gitlab.lrz.de:AM/AMlatex.git
$> AMlatex/setup.sh extract all
$> AMlatex/setup.sh install
```

Both methods should also work on MAC OS
They work also under Windows with Git Bash

Incoming work

- Update Documentation (AMclsguide.pdf)
- Package `AMvideo` for video inclusion.
- More informations on `https://gitlab.lrz.de/AM/AMlatex`