

# Chapter G:I

## I. Style Guide

- First Steps
- Slide Examples
- Slide Commands Overview
- Latex Hints
  
- Lecturenotes Typesetting Test
  
- Lecturenotes Figures

# Lecturenotes Typesetting Test

## Current Options and Dimensions

Input encoding: utf8  
Font: nimbus  
Aspect ratio: 4:3  
Language: american  
Legacy: no

# Lecturenotes Typesetting Test

## Current Options and Dimensions

Input encoding: utf8  
Font: nimbus  
Aspect ratio: 4:3  
Language: american  
Legacy: no

paperheight:	496.93pt	174.65mm	54.99ex
textheight:	477.43pt	167.8mm	52.83ex
paperwidth:	662.59pt	232.87mm	38.34em
textwidth:	638.59pt	224.44mm	36.96em
evensidemargin:	12pt	4.22mm	0.69em
topmargin:	4pt	1.41mm	0.23em
baselineskip:	23pt	8.08mm	2.54ex
parskip:	9.2pt	3.23mm	1.02ex
bsparskip:	9.2pt	3.23mm	1.02ex
leftmargin:	43.2pt	15.18mm	2.5em
leftmarginii:	25.92pt	9.11mm	1.5em
leftmarginiv:	17.28pt	6.07mm	1em
leftmarginv:	8.64pt	3.04mm	0.5em
labelsep:	12.96pt	4.55mm	0.75em
labelwidth:	30.24pt	10.63mm	1.75em

## Remarks:

- ❑ Be careful when using relative units such as em and ex: The current font is used as reference basis, and changing the family or size will lead to different results.
- ❑ Note that `\parskip` is redefined in different environments, e.g., 1.5pt and 0.0pt within the `itemize` and `minipage` environment respectively.

# Lecturenotes Typesetting Test

## Listings: itemize

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis.

- Lorem ipsum dolor sit amet, consectetur adipiscing elit.
- Lorem ipsum dolor sit amet, consectetur adipiscing elit.
  - Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis.
  - Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis.
    - Curabitur dictum gravida mauris.
    - Curabitur dictum gravida mauris.
      - Nam arcu libero, nonummy eget, consectetur id, vulputate a, magna.
      - Nam arcu libero, nonummy eget, consectetur id, vulputate a, magna.
    - Curabitur dictum gravida mauris.
  - Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis.
- Lorem ipsum dolor sit amet, consectetur adipiscing elit.

# Lecturenotes Typesetting Test

## Listings: enumerate

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis.

1. Lorem ipsum dolor sit amet, consectetur adipiscing elit.

2. Lorem ipsum dolor sit amet, consectetur adipiscing elit.

(a) Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis.

(b) Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis.

(i) Curabitur dictum gravida mauris.

(ii) Curabitur dictum gravida mauris.

A. Nam arcu libero, nonummy eget, consectetur id, vulputate a, magna.

B. Nam arcu libero, nonummy eget, consectetur id, vulputate a, magna.

(iii) Curabitur dictum gravida mauris.

(c) Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis.

3. Lorem ipsum dolor sit amet, consectetur adipiscing elit.

# Lecturenotes Typesetting Test

## Listings with `\coloritem`

`\coloritem[<COLOR>]` changes the color from the current item only and then switches back to the color that was active before.

- ❑ Lorem ipsum dolor sit amet, consectetur adipiscing elit.
- ❑ Lorem ipsum dolor sit amet, consectetur adipiscing elit.
- ❑ Lorem ipsum dolor sit amet, consectetur adipiscing elit.
- ❑ Lorem ipsum dolor sit amet, consectetur adipiscing elit.
- ➔ Lorem ipsum dolor sit amet, consectetur adipiscing elit.
- ❑ Lorem ipsum dolor sit amet, consectetur adipiscing elit.
- ➔ Lorem ipsum dolor sit amet, consectetur adipiscing elit.
- ❑ Lorem ipsum dolor sit amet, consectetur adipiscing elit.

Lorem ipsum dolor sit amet, consectetur adipiscing elit.

# Lecturenotes Typesetting Test

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- Lorem ipsum dolor sit amet, consectetur adipiscing elit.
- □ Lorem ipsum dolor sit amet, consectetur adipiscing elit.
- Lorem ipsum dolor sit amet, consectetur adipiscing elit.
- Lorem ipsum dolor sit amet, consectetur adipiscing elit.
- Lorem ipsum dolor sit amet, consectetur adipiscing elit.
- Lorem ipsum dolor sit amet, consectetur adipiscing elit.
- Lorem ipsum dolor sit amet, consectetur adipiscing elit.
- Lorem ipsum dolor sit amet, consectetur adipiscing elit.

Lorem ipsum dolor sit amet, consectetur adipiscing elit.



# Lecture notes Typesetting Test

## Listings with `\coloritem` (continued)

Since Latex is a dynamically scoped language, saving and restoring the color works for nested listings as well.

1. Lorem ipsum dolor sit amet, consectetur adipiscing elit.
2. Lorem ipsum dolor sit amet, consectetur adipiscing elit.
  - (a) Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis.
  - (b) Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis.
    - (i) Curabitur dictum gravida mauris.  
→ Curabitur dictum gravida mauris.
    - (ii) Curabitur dictum gravida mauris.
  - (c) Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis.
3. Lorem ipsum dolor sit amet, consectetur adipiscing elit.
4. Lorem ipsum dolor sit amet, consectetur adipiscing elit.

# Lecturenotes Typesetting Test

## Listings with `\coloritem` (continued)

Since Latex is a dynamically scoped language, saving and restoring the color works for nested listings as well.

1. Lorem ipsum dolor sit amet, consectetur adipiscing elit.
2. Lorem ipsum dolor sit amet, consectetur adipiscing elit.
  - (a) Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis.
  - (b) Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis.
    - (i) Curabitur dictum gravida mauris.  
**→ Curabitur dictum gravida mauris.**
    - (ii) Curabitur dictum gravida mauris.
  - (c) Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis.
3. Lorem ipsum dolor sit amet, consectetur adipiscing elit.
4. Lorem ipsum dolor sit amet, consectetur adipiscing elit.

# Lecturenotes Typesetting Test

Listings: Numbered Lines under `\small`

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.
- 9.
- 10.
- 11.
- 12.
- 13.
- 14.
- 15.
- 16.
- 17.
- 18.
- 19.

# Lecturenotes Typesetting Test

Skips: \normalsize

line

newline

par = bspar0

bspar1

bspar2

bspar3

bspar4

baselineskip:	23pt	8.08mm	2.54ex
parskip:	9.2pt	3.23mm	1.02ex
bsparskip:	9.2pt	3.23mm	1.02ex

# Lecturenotes Typesetting Test

Skips: \small

line

newline

par = bspar0

bspar1

bspar2

bspar3

bspar4

baselineskip:	18pt	6.33mm	2.39ex
parskip:	9.2pt	3.23mm	1.22ex
bsparskip:	9.2pt	3.23mm	1.22ex

# Lecturenotes Typesetting Test

Skips: Itemize + \normalsize

- line

newline

par = bspar0

bspar1

bspar2

bspar3

bspar4

- |                      |       |        |        |
|----------------------|-------|--------|--------|
| <b>baselineskip:</b> | 23pt  | 8.08mm | 2.54ex |
| <b>parskip:</b>      | 1.5pt | 0.53mm | 0.17ex |
| <b>bsparskip:</b>    | 9.2pt | 3.23mm | 1.02ex |

# Lecturenotes Typesetting Test

## Skips: Itemize + \small

- line  
newline  
par = bspar0

bspar1

bspar2

bspar3

bspar4

- |               |       |        |        |
|---------------|-------|--------|--------|
| baselineskip: | 18pt  | 6.33mm | 2.39ex |
| parskip:      | 1.5pt | 0.53mm | 0.2ex  |
| bsparskip:    | 9.2pt | 3.23mm | 1.22ex |

# Lecturenotes Typesetting Test

Skips: Minipage + \normalsize

line

newline

par = bspar0

bspar1

bspar2

bspar3

bspar4

baselineskip:	23pt	8.08mm	2.54ex
parskip:	0pt	0mm	0ex
bsparskip:	9.2pt	3.23mm	1.02ex



# Lecturenotes Typesetting Test

Skips: Minipage + \small

line

newline

par = bspar0

bspar1

bspar2

bspar3

bspar4

baselineskip:	18pt	6.33mm	2.39ex
parskip:	0pt	0mm	0ex
bsparskip:	9.2pt	3.23mm	1.22ex

# Lecture notes Typesetting Test

## Font Sizes

`\huge` **x** +  $x \cdot y$  **N** *C*  $\neq$   $\pi\Pi$  courier **bold**

`\LARGE` **x** +  $x \cdot y$  **N** *C*  $\neq$   $\pi\Pi$  courier **bold**

`\Large` **x** +  $x \cdot y$  **N** *C*  $\neq$   $\pi\Pi$  courier **bold**

`\large` **x** +  $x \cdot y$  **N** *C*  $\neq$   $\pi\Pi$  courier **bold**

`\normalsize` **x** +  $x \cdot y$  **N** *C*  $\neq$   $\pi\Pi$  courier **bold**

`\small` **x** +  $x \cdot y$  **N** *C*  $\neq$   $\pi\Pi$  courier **bold**

`\footnotesize` **x** +  $x \cdot y$  **N** *C*  $\neq$   $\pi\Pi$  courier **bold**

`\scriptsize` **x** +  $x \cdot y$  **N** *C*  $\neq$   $\pi\Pi$  courier **bold**

`\scriptsize` **x** +  $x \cdot y$  **N** *C*  $\neq$   $\pi\Pi$  courier **bold**

`\tiny` **x** +  $x \cdot y$  **N** *C*  $\neq$   $\pi\Pi$  courier **bold**

\normalsize (1) abcdefghijklmnopqrstuvwxyz ABCDEFGHI  
JKLMNOPQRSTUVWXYZ (2) abcdefghijklmnopqrstuvwxyz  
ABCDEFGHIJKLMNOPQRSTUVWXYZ (3) abcdefghijklmn  
opqrstuvwxyz ABCDEFGHIJKLMNOPQRSTUVWXYZ (4) ab  
cdefghijklmnopqrstuvwxyz ABCDEFGHIJKLMNOPQRST  
UVWXYZ (5) abcdefghijklmnopqrstuvwxyz ABCDEFGHIJK  
LMNOPQRSTUVWXYZ (6) abcdefghijklmnopqrstuvwxyz A  
BCDEFGHIJKLMNOPQRSTUVWXYZ (7) abcdefghijklmnop  
qrstuvwxyz ABCDEFGHIJKLMNOPQRSTUVWXYZ (8) abcd  
efghijklmnopqrstuvwxyz ABCDEFGHIJKLMNOPQRSTU  
WXYZ (9) abcdefghijklmnopqrstuvwxyz ABCDEFGHIJKLM  
NOPQRSTUVWXYZ (10) abcdefghijklmnopqrstuvwxyz AB  
CDEFGHIJKLMNOPQRSTUVWXYZ (11) abcdefghijklmnop  
qrstuvwxyz ABCDEFGHIJKLMNOPQRSTUVWXYZ (12) abc  
defghijklmnopqrstuvwxyz ABCDEFGHIJKLMNOPQRSTU  
WXYZ (13) abcdefghijklmnopqrstuvwxyz ABCDEFGHIJK  
LMNOPQRSTUVWXYZ (14) abcdefghijklmnopqrstuvwxyz  
ABCDEFGHIJKLMN OPQRSTUVWXYZ (15) abcdefghijklmn  
opqrstuvwxyz ABCDEFGHIJKLMNOPQRSTUVWXYZ (16) a  
bcdefghijklmnopqrstuvwxyz ABCDEFGHIJKLMNOPQRS

T U V W X Y Z (17) a b c d e f g h i j k l m n o p q r s t u v w x y z A B C D E F G H I  
J K L M N O P Q R S T U V W X Y Z (18) a b c d e f g h i j k l m n o p q r s t u v w x  
y z A B C D E F G H I J K L M N O P Q R S T U V W X Y Z (19) a b c d e f g h i j k l  
m n o p q r s t u v w x y z A B C D E F G H I J K L M N O P Q R S T U V W X Y Z  
(20) a b c d e f g h i j k l m n o p q r s t u v w x y z A B C D E F G H I J K L M N O P  
Q R S T U V W X Y Z (21) a b c d e f g h i j k l m n o p q r s t u v w x y z A B C D E F  
G H I J K L M N O P Q R S T U V W X Y Z (22) a b c d e f g h i j k l m n o p q r s t u  
v w x y z A B C D E F G H I J K L M N O P Q R S T U V W X Y Z (23) a b c d e f g h  
i j k l m n o p q r s t u v w x y z A B C D E F G H I J K L M N O P Q R S T U V W X Y  
Z (24) a b c d e f g h i j k l m n o p q r s t u v w x y z A B C D E F G H I J K L M N O  
P Q R S T U V W X Y Z

(1) abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ  
UVWXYZ (2) abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ  
STUVWXYZ (3) abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ  
QRSTUVWXYZ (4) abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMN  
OPQRSTUVWXYZ (5) abcdefghijklmnopqrstuvwxyzABCDEFGHIJKL  
MNOPQRSTUVWXYZ (6) abcdefghijklmnopqrstuvwxyzABCDEFGHIJ  
KLMNOPQRSTUVWXYZ (7) abcdefghijklmnopqrstuvwxyzABCDEFGH  
IJKLMNOPQRSTUVWXYZ (8) abcdefghijklmnopqrstuvwxyzABCDEF  
GHIJKLMNOPQRSTUVWXYZ (9) abcdefghijklmnopqrstuvwxyzABCD  
EFGHIJKLMNOPQRSTUVWXYZ (10) abcdefghijklmnopqrstuvwxyzAB  
CDEFGHIJKLMNOPQRSTUVWXYZ (11) abcdefghijklmnopqrstuvwxyz  
ABCDEFGHIJKLMN (12) abcdefghijklmnopqrstuv  
wxyz (13) abcdefghijklmnopqrstuv  
wxyz (14) abcdefghijklmnopqr  
stuvwxyz (15) abcdefghijklmno  
pqrstuvwxyz (16) abcdefghijklm  
nopqrstuvwxyz (17) abcdefghij  
klmnopqrstuvwxyz (18) abcdefg  
hijklmnopqrstuvwxyz (19) abcd  
efghijklmnopqrstuvwxyz (20) a  
bcdefghijklmnopqrstuvwxyz (21) abcdefghijklmnopqrstuvwxyz  
ABCDEF (22) abcdefghijklmnopqrstuvwxyz  
ABCDEF (23) abcdefghijklmnopqrstuvwxyz  
ABCDEF (24) abcdefghijklmnopqrstuvwxyz  
ABCDEF

`\footnotesize` (1) abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ (2) abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ (3) abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ (4) abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ (5) abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ (6) abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMN OPQRSTUVWXYZ (7) abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMN OPQRSTUVWXYZ (8) abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMN OPQRSTUVWXYZ (9) abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMN OPQRSTUVWXYZ (10) abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMN OPQRSTUVWXYZ (11) abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMN OPQRSTUVWXYZ (12) abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMN OPQRSTUVWXYZ (13) abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMN OPQRSTUVWXYZ (14) abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMN OPQRSTUVWXYZ (15) abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMN OPQRSTUVWXYZ (16) abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMN OPQRSTUVWXYZ (17) abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMN OPQRSTUVWXYZ (18) abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMN OPQRSTUVWXYZ (19) abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMN OPQRSTUVWXYZ (20) abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMN OPQRSTUVWXYZ (21) abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMN OPQRSTUVWXYZ (22) abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMN OPQRSTUVWXYZ (23) abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMN OPQRSTUVWXYZ (24) abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMN OPQRSTUVWXYZ

# Lecture notes Typesetting Test

## Verbatim

Verbatim works only outside of the bsslide environment.

```
\begin{bsslide}
\end{bsslide}
\begin{verbatim}
...
\end{verbatim}
```

The verbatim source of the current slide:

```
\begin{bsslide}[\textbufferA]
\colortext{Verbatim}
\bspar1
Verbatim works only outside of the bsslide environment.
\bspar1
{\footnotesize
\texcmd{begin}\texarg{bsslide} \\
\texcmd{end}\texarg{bsslide} \\
\texcmd{begin}\texarg{verbatim} \\
\texxt{\ldots} \\
\texcmd{end}\texarg{verbatim} \\
}
\bspar4
The verbatim source of the current slide:
\end{bsslide}
```

# Lecturenotes Typesetting Test

## Dimensions of Slide Head Define Start of First Line

Slide head argument: `'Lecturenotes Typesetting Test'`

Width, height of slideheadbox: `228.28348pt, 12.31189pt`



# Lecturenotes Typesetting Test

## Dimensions of Slide Head Define Start of First Line

Slide head argument: `'\smash{Lecturenotes Typesetting Test}'`

Width, height of slideheadbox: `228.28348pt, 0.0pt`

# Dimensions of Slide Head Define Start of First Line

Slide head argument: `'\rule{1em}{0ex}'`

Width, height of slideheadbox: 17.28pt, 0.0pt

# Dimensions of Slide Head Define Start of First Line

Slide head argument: `'\rule{0em}{1ex}'`

Width, height of slideheadbox: **0.0pt, 9.0374pt**

# Dimensions of Slide Head Define Start of First Line

Slide head argument: `'\rule{0em}{0ex}'`

Width, height of slideheadbox: `0.0pt, 0.0pt`

# Dimensions of Slide Head Define Start of First Line

Slide head argument: ”

Width, height of slideheadbox: 0.0pt, 0.0pt

# Dimensions of Slide Head Define Start of First Line

Slide head argument: `'\hypertarget{test}{'`

Width, height of slideheadbox: `0.0pt, 0.0pt`