Introduction to Scientific Working

Aart Middeldorp

Outline

1. **Organisation**
2. **Some Content**
3. **Announcement**

Organisation

- LVA 703073 group 2

Organisation

- LVA 703073 group 2 VU 2 – 2.5 ECTS

Organisation

- LVA 703073 group 2 VU 2 – 2.5 ECTS 08:30–10:00 in HS 11

Organisation

- LVA 703073 group 2 VU 2 – 2.5 ECTS 08:30–10:00 in HS 11
- http://cl-informatik.uibk.ac.at/teaching/ss26/ewa

Organisation

- LVA 703073 group 2 VU 2 – 2.5 ECTS 08:30–10:00 in HS 11
- `http://cl-informatik.uibk.ac.at/teaching/ss26/ewa` OLAT

Organisation

- LVA 703073 group 2 VU 2 – 2.5 ECTS 08:30–10:00 in HS 11
- `http://cl-informatik.uibk.ac.at/teaching/ss26/ewa` OLAT

Consultation Hours

Aart Middeldorp 3M07 Monday 12:00–13:30

Organisation

- LVA 703073 group 2 VU 2 – 2.5 ECTS 08:30–10:00 in HS 11
- http://cl-informatik.uibk.ac.at/teaching/ss26/ewa OLAT

Consultation Hours

Aart Middeldorp 3M07 Monday 12:00–13:30

Schedule

lecture 1	March 5	lecture 6	April 23	lecture 11	June 11
lecture 2	March 12	lecture 7	April 30	lecture 12	June 18
lecture 3	March 19	lecture 8	May 7	lecture 13	June 25
lecture 4	March 26	lecture 9	May 21		
lecture 5	April 16	lecture 10	May 28		

Organisation

- LVA 703073 group 2 VU 2 – 2.5 ECTS 08:30–10:00 in HS 11
- http://cl-informatik.uibk.ac.at/teaching/ss26/ewa OLAT

Consultation Hours

Aart Middeldorp 3M07 Monday 12:00–13:30

Schedule

lecture 1	March 5	lecture 6	April 23	lecture 11	June 11	presentations
lecture 2	March 12	lecture 7	April 30	lecture 12	June 18	presentations
lecture 3	March 19	lecture 8	May 7	lecture 13	June 25	presentations
lecture 4	March 26	lecture 9	May 21			
lecture 5	April 16	lecture 10	May 28			

Grading

$$\text{score} = E + P_1 + P_2 + R$$

Grading

score $= E + P_1 + P_2 + R$

E : points for solved exercises (at most 25)

Grading

$$\text{score} = E + P_1 + P_2 + R$$

E : points for solved exercises (at most 25)

P_1 : points for presentation of solutions (at most 10)

Grading

$$\text{score} = E + P_1 + P_2 + R$$

E : points for solved exercises (at most 25)

P_1 : points for presentation of solutions (at most 10)

P_2 : points for presentation of assigned topic (at most 25)

Grading

score $= E + P_1 + P_2 + R$

E : points for solved exercises (at most 25)

P_1 : points for presentation of solutions (at most 10)

P_2 : points for presentation of assigned topic (at most 25)

R : points for report on assigned topic (at most 40)

Grading

$$\text{score} = E + P_1 + P_2 + R$$

E : points for solved exercises (at most 25)

P_1 : points for presentation of solutions (at most 10)

P_2 : points for presentation of assigned topic (at most 25)

R : points for report on assigned topic (at most 40)

$$\text{grade} = \text{score} \in (-50) \to 5 \quad [50-63) \to 4 \quad [63-75) \to 3 \quad [75-88) \to 2 \quad [88-) \to 1$$

Grading

$$\text{score} = E + P_1 + P_2 + R$$

E : points for solved exercises (at most 25)

P_1 : points for presentation of solutions (at most 10)

P_2 : points for presentation of assigned topic (at most 25)

R : points for report on assigned topic (at most 40)

$$\text{grade} = \text{score} \in (-50) \to 5 \quad [50-63) \to 4 \quad [63-75) \to 3 \quad [75-88) \to 2 \quad [88-) \to 1$$

- solved exercises (5 times) must be marked and solutions must be uploaded in OLAT before 6 pm on Wednesday

Grading

$$\text{score} = E + P_1 + P_2 + R$$

E : points for solved exercises (at most 25)

P_1 : points for presentation of solutions (at most 10)

P_2 : points for presentation of assigned topic (at most 25)

R : points for report on assigned topic (at most 40)

$$\text{grade} = \text{score} \in (-50) \to 5 \quad [50-63) \to 4 \quad [63-75) \to 3 \quad [75-88) \to 2 \quad [88-) \to 1$$

- solved exercises (5 times) must be marked and solutions must be uploaded in OLAT before 6 pm on Wednesday
- report (LaTeX and PDF) must be uploaded in OLAT before July 2

Grading

$$\text{score} = E + P_1 + P_2 + R$$

E : points for solved exercises (at most 25)

P_1 : points for presentation of solutions (at most 10)

P_2 : points for presentation of assigned topic (at most 25)

R : points for report on assigned topic (at most 40)

$$\text{grade} = \text{score} \in (-50) \to 5 \quad [50-63) \to 4 \quad [63-75) \to 3 \quad [75-88) \to 2 \quad [88-) \to 1$$

- solved exercises (5 times) must be marked and solutions must be uploaded in OLAT before 6 pm on Wednesday
- report (LaTeX and PDF) must be uploaded in OLAT before July 2
- topics will be announced on March 19 and assigned on March 26

Grading (cont'd)

- VU $\Longrightarrow$ attendance is mandatory

Grading (cont'd)

- VU $\Longrightarrow$ attendance is mandatory
- unexcused attendance is allowed once $\Longrightarrow$ zero points

Grading (cont'd)

- VU $\Longrightarrow$ attendance is mandatory
- unexcused attendance is allowed once $\Longrightarrow$ zero points
- dropping out without grade is possible until March 19

Grading (cont'd)

- VU $\Longrightarrow$ attendance is mandatory
- unexcused attendance is allowed once $\Longrightarrow$ zero points
- dropping out without grade is possible until March 19

Presentations

- solutions will be presented in first part of every subsequent lecture

Grading (cont'd)

- VU $\Longrightarrow$ attendance is mandatory
- unexcused attendance is allowed once $\Longrightarrow$ zero points
- dropping out without grade is possible until March 19

Presentations

- solutions will be presented in first part of every subsequent lecture
- crossed exercises implies willingness to present solutions

Grading (cont'd)

- VU $\Longrightarrow$ attendance is mandatory
- unexcused attendance is allowed once $\Longrightarrow$ zero points
- dropping out without grade is possible until March 19

Presentations

- solutions will be presented in first part of every subsequent lecture
- crossed exercises implies willingness to present solutions

Topics

- citations
- ethics
- impact
- presentations
- publications
- ranking
- refereeing
- typesetting

Keywords

acknowledgement · awards · beamer · bibliography · CORE ranking · DBLP · conference · editorial board · generative AI · Google Scholar · h–index · impact factor · journal · LaTeX · LIPIcs · LNCS · open access · plagiarism · presentation · program committee · rebuttal · review · submission · TikZ · workshop · · · ·

Outline

Types of Scientific Works

- seminar report (Specialisation Seminar)

Types of Scientific Works

- seminar report (Specialisation Seminar)
- bachelor thesis

Types of Scientific Works

- seminar report (Specialisation Seminar)
- bachelor thesis
- master thesis

Types of Scientific Works

- seminar report (Specialisation Seminar)
- bachelor thesis
- master thesis
- PhD thesis
- habilitation thesis

Types of Scientific Works

- seminar report (Specialisation Seminar)
- bachelor thesis
- master thesis
- PhD thesis
- habilitation thesis
- workshop paper
- conference paper
- journal article
- book chapter
- book

Types of Scientific Works

- seminar report (Specialisation Seminar)
- bachelor thesis
- master thesis
- PhD thesis
- habilitation thesis
- workshop paper
- conference paper
- journal article
- book chapter
- book

Typesetting Resources

- CTAN – Comprehensive TEX Archive Network

Types of Scientific Works

- seminar report (Specialisation Seminar)
- bachelor thesis
- master thesis
- PhD thesis
- habilitation thesis
- workshop paper
- conference paper
- journal article
- book chapter
- book

Typesetting Resources

- CTAN – Comprehensive TEX Archive Network
- TEX Live

```
\documentclass{article}

\begin{document}

Small is beautiful.

\end{document}
```

```
\documentclass{article}

\begin{document}

Small is beautiful.

\end{document}
```

- pdflatex *filename*.tex

```
\documentclass{article}

\begin{document}

Small is beautiful.

\end{document}
```

- `pdflatex` *filename*`.tex`
- `\documentclass[`*options*`]{`*class*`}`

  class: article report book standalone ...

```
\documentclass{article}

\begin{document}

Small is beautiful.

\end{document}
```

- `pdflatex` *filename*`.tex`
- `\documentclass[`*options*`]{`*class*`}`

  class: article report book standalone ...

  options: a4paper 11pt twocolumn fleqn landscape ...

```
\documentclass{article}

\begin{document}

Small is beautiful.

\end{document}
```
src

- `pdflatex` *filename*`.tex`
- `\documentclass[`*options*`]{`*class*`}`

  class: article report book standalone ...

  options: a4paper 11pt twocolumn fleqn landscape ...

```
\documentclass{article}

\begin{document}

Small is beautiful.

\end{document}
```
src

```
\documentclass{article}
\usepackage{xcolor}
\usepackage{shapepar}
\begin{document}
\color{red}
\heartpar{Shall I compare thee ...}
\end{document}
```
src

- `pdflatex` *filename*`.tex`
- `\documentclass[`*options*`]{`*class*`}`

  class: article report book standalone ...

  options: a4paper 11pt twocolumn fleqn landscape ...

```
\documentclass{article}

\begin{document}

Small is beautiful.

\end{document}
```
src

```
\documentclass{article}
\usepackage{xcolor}
\usepackage{shapepar}
\begin{document}
\color{red}
\heartpar{Shall I compare thee ...}
\end{document}
```
src

- `pdflatex` *filename*`.tex`
- `\documentclass[`*options*`]{`*class*`}`

  class: article report book standalone ...

  options: a4paper 11pt twocolumn fleqn landscape ...
- `\usepackage[`*options*`]{`*package*`}`

```
\documentclass{article}

\begin{document}

Small is beautiful.

\end{document}
```
src

```
\documentclass{article}
\usepackage{xcolor}
\usepackage{shapepar}
\begin{document}
\color{red}
\heartpar{Shall I compare thee ...}
\end{document}
```
src

- `pdflatex` *filename*`.tex`
- `\documentclass[`*options*`]{`*class*`}`

  class: article report book standalone ...

  options: a4paper 11pt twocolumn fleqn landscape ...
- `\usepackage[`*options*`]{`*package*`}`

  package: xcolor shapepar ...

```
\documentclass{article}

\begin{document}

Small is beautiful.

\end{document}
```
src

```
\documentclass{article}
\usepackage{xcolor}
\usepackage{shapepar}
\begin{document}
\color{red}
\heartpar{Shall I compare thee ...}
\end{document}
```
src

- `pdflatex` *filename*`.tex`
- `\documentclass[`*options*`]{`*class*`}`

  class: article report book standalone ...

  options: a4paper 11pt twocolumn fleqn landscape ...
- `\usepackage[`*options*`]{`*package*`}`

  package: xcolor shapepar ... (CTAN contains more than 6878 packages)

Shall I compare
thee to a summer's day? Thou art more
lovely and more tem- perate: Rough winds do
shake the darling buds of May, And summer's lease
hath all too short a date; Sometime too hot the eye
of heaven shines, And often is his gold complexion
dimm'd; And every fair from fair sometime declines, By
chance or nature's changing course untrimm'd; But
thy eternal summer shall not fade, Nor lose pos-
session of that fair thou ow'st; Nor shall death
brag thou wander'st in his shade, When in
eternal lines to time thou grow'st: So
long as men can breathe or eyes
can see, So long lives this,
and this gives life
to thee.

♡

Shall I compare
thee to a summer's day? Thou art more
lovely and more tem- perate: Rough winds do
shake the darling buds of May, And summer's lease
hath all too short a date; Sometime too hot the eye
of heaven shines, And often is his gold complexion
dimm'd; And every fair from fair sometime declines, By
chance or nature's changing course untrimm'd; But
thy eternal summer shall not fade, Nor lose pos-
session of that fair thou ow'st; Nor shall death
brag thou wander'st in his shade, When in
eternal lines to time thou grow'st: So
long as men can breathe or eyes
can see, So long lives this,
and this gives life
to thee.
♡

William Shakespeare – Sonnet 18

Outline

Announcement (MIP seminar)

auf Anregung mehrerer Personen haben wir beschlossen, das MIP–Seminar für Doktoranden dieses Semester zum Zuhören für Studierende zu öffnen. Die Doktoranden sollen im Seminar einen Public–Outreach–Talk über ihr Forschungsthema halten. Da das für Studierende (BA/MA) sicher auch spannend ist, und damit alles ein bisschen weniger Trockenübung wird, würden wir uns über Besuch von Studierenden sehr freuen.

Es gibt in jeder Sitzung zwei Vorträge à 15 Minuten, danach kurze Diskussion. Die Termine der Sitzungen sind folgende:

Mi. 15.4., 13:45 Uhr, HS E
Mi. 22.4., 13:45 Uhr, HS E
Mi. 29.4., 13:45 Uhr, HS E
Mi. 6.5., 13:45 Uhr, HS E
Mi. 13.5., 13:45 Uhr, HS E
Mi. 20.5., 13:45 Uhr, HS E
Mi. 27.5., 13:45 Uhr, HS E