

# The Learning*Online* Network with CAPA



## New in 3.0

Peter Riegler

Wolfenbüttel University of Applied Sciences



# Genesis

Situation at Wolfenbüttel

- Students' strategy: Attack the weak points
- Today's kids are spoiled by stylish web pages
- ...

→ LC redesign as part of curricular course work



# Goals

- Make LC more fashionable
  - LC-GUI is well done in terms of the 90s, but time's changing
  - Use today's powerful CSS possibilities
- Make course coordinators not feel intimidated
- Make user interface more consistent



# LC at times is inconsistent

same functionality – different user interfaces

The image displays three overlapping screenshots of a learning management system (LMS) interface, illustrating inconsistent user interfaces for the same functionality. The screenshots are:

- Top Left Screenshot:** Shows the **Main Menu** for a course. The user is Peter Riegler, Course Coordinator. The menu includes sections for **My Roles**, **Communication**, **My Space**, and **Content Library**.
- Top Middle Screenshot:** Shows the **Change Preferences** page. It lists various settings such as **Change Password**, **Change Screen Name**, **Change Color Scheme**, **Change Language Preferences**, and **Change Discussion Display Preferences**.
- Bottom Right Screenshot:** Shows the **Parameter Manager** page. It is divided into sections for **Settings for Your Course** (e.g., **Set Course Environment**, **Set Portfolio Metadata**), **New and Existing Parameter Settings for Your Resources** (e.g., **Set/Modify Resource Parameters - Helper Mode**), and **Existing Parameter Settings for Your Resources** (e.g., **Modify Resource Parameters - Overview Mode**).



## Goals

- Disentangle code and user interface
- Don't add new functionality
- Keep with traditions



## New in 3.0

- Mostly GUI features
- 3.0: big bang instead of gradual change



## Time line (planned)

- Current status: 20/80
- Sep 30: feature freeze
- Followed by testing
- 2010: release of 3.0



# Comparison

2.8 vs. 3.0 ()

- Login
- User Roles
- Main Menu
- Navigate Contents
- Edit Course
- Work on problem





# LON-CAPA

The LearningOnline Network with CAPA

[Accessibility Options](#)  
[About LON-CAPA](#)  
[Course Catalog](#)

## Log in

Username:

Password:

Domain:

[Log-in Help](#)

[Forgot password?](#)

Domain: nds  
Server: nds11  
(library)  
Server Load: 0.0%  
User Load: 0.00%

Done

## Herzlich Willkommen zu LON-CAPA

### Lern- und Übungsplattform Niedersächsischer Schulen und Hochschulen

Anmeldung	Hilfreiche Links
Verwenden Sie die Ihnen zugewiesene Benutzerkennung zusammen mit Ihrem geheimen Passwort. Fragen zu Ihrem Login und zu Ihren Kursen beantwortet der/die jeweilige DozentIn.	<ul style="list-style-type: none"><li>• <a href="#">Kurzeinleitung für Studierende</a></li><li>• <a href="#">ELAN III-Projekt <i>eÜbungen</i></a></li><li>• <a href="#">Projekt <i>Vita</i></a></li><li>• <a href="#">Demoaufgaben</a></li><li>• <a href="#">LON-CAPA</a></li></ul>



### Log in

**Username:**

**Password:**

**Domain:**

fhwfdev

Log in

[Log-in Help](#)

[Forgot password?](#)

[Contact Helpdesk](#)

[Course Catalog](#)

## The LearningOnline Network with CAPA



### Testserver

Es ist kein Login möglich!!

Ihre Lernplattform finden Sie unter  
<https://vita.fh-wolfenbuettel.de>

### Test Server

No login possible!

Your Learning Management System is available at  
<https://vita.fh-wolfenbuettel.de>

Wolfenbuettel University of Applied Sciences BS/WF LON-CAPA Development Server

Domain: fhwfdev  
Server: fhwf1dev1 (library)  
Server Load: 0.0 percent  
User Load: 0.00 percent




# Main Menu (fhwf\_7F123183330ae45b8fhwfl1)

Peter Riegler


Student


discrete structures - Groningen


## My Roles

 Switch to another user role


## Communication


 31 Course announcements and my calendar


 Send and receive messages


 Enter the chatroom for the course


## My Space

 Enter my groups in the course


 Enter my portfolio space

 Edit blogs, RSS feeds, and podcasts


 Set my user preferences

 Use or edit my bookmark collection

## Content Library


 Search the contents of this course or accessible portfolio files

## Grading and Statistics


 View current problem status and grading information

## Course Content

 View documents included in this course

 Navigate the table of contents for this course

## Other

 Exit LON-CAPA

 Display catalog of courses

Testkurs Wang


Main Menu | Return to Last Location | Navigate Contents

# Main Menu




Peter Riegler  
Student  
Testkurs Wang

## Testkurs Wang

### My Roles

 Switch to another user role


### Communication

-  Course announcements and my calendar
-  Send and receive messages
-  Enter the chat room for the course


### My Space

-  Enter my groups in the course
-  Enter my portfolio space
-  Edit blogs, RSS feeds, and podcasts
-  Set my user preferences
-  Use or edit my bookmark collection



### Course Management

 Manage reservations




### Grading and Statistics

 View current problem status and grading information

### Course Content

-  View documents included in this course
-  Navigate the table of contents for this course





### Other

-  Logout
-  Display catalog of courses
-  Request creation of a new course



# Benutzerrollen

Peter Riegler  
Keine Rolle, kumulative PrivilegienAlle Rollen anzeigen:  Anzeigen

	Benutzerrolle	Bereich Zuletzt verwendete Rollen	Anfang	Ende
<a href="#">Server wechseln</a>	Autor	Domäne: fhwf Server: vita.fh-wolfenbuettel.de	Di., 7. März 2006, 18:17:59 Uhr (CET)	
	 			
<a href="#">Server wechseln</a>	Co-Autor	Benutzer: bellmer Domäne: fhwf Server: vita.fh-wolfenbuettel.de	Fr., 11. Mai 2007, 10:44:33 Uhr (CEST)	
	 			
<input type="button" value="Auswählen"/>	Kurs-Koordinator	FbI - Multimediatechnik SS2009 <a href="#">Kursüberblick</a> Domäne: fhwf		
<input type="button" value="Auswählen"/>	Kurs-Koordinator	FbI - Numerical Computing SS2009 <a href="#">Kursüberblick</a> Domäne: fhwf		
<input type="button" value="Auswählen"/>	Kurs-Koordinator	FbI - Theoretische Informatik SS2009 <a href="#">Kursüberblick</a> Domäne: fhwf		
		FbI - ...		





Main Menu

# My Roles

Peter Riegler  
No Role, Cumulative Privileges

Menu » **User Roles**

Show all roles:

User Role	Extent	Start	End
<b>Construction Space</b>			
<input type="button" value="Select"/> Author	Domain: fhwfdev Server: polya.informatik.fh-wolfenbuettel.de	Wed Feb 20 12:09:11 pm 2008 (CET)	
<input type="button" value="Select"/> Co-Author	User: bisitz Domain: fhwfdev Server: polya.informatik.fh-wolfenbuettel.de	Fri Dec 5 05:33:18 pm 2008 (CET)	
<b>Course</b>			
<input type="button" value="Select"/> Course Coordinator	Mathematik für Philosophen <a href="#">Syllabus</a> Domain:fhwfdev		
<input type="button" value="Select"/> Student	Testkurs Wang <a href="#">Syllabus</a>	Mon Mar 9 09:13:10 am 2009 (CET)	Sat Sep 5 10:13:10 am 2009 (CEST)



# Navigate Course Contents (fhwf\_7F123183330ae45b8fhwfl1)

Peter Riegler  
Student  
discrete structures - Groningen

Select Action  Sort by: Default

- > [Syllabus](#) <
- Chapter 6 Problems
- [Lecture Materials](#)
- 1-1 Series and Sequences
- ? [Argument einer komplexen Zahl bestimmen](#) Not currently assigned.



## Testkurs Wang

[Main Menu](#)[Return to Last Location](#)[Navigate Contents](#)

# Course Contents

[Peter Riegler](#)  
Student  
Testkurs Wang

Testkurs Wang » **Course Contents**

Tools:

Sort by: Default

**Syllabus**

## ▶ einige Aufgaben

 einfache Seite einfache Aufgabe

Not currently assigned.

 noch eine einfache Seite

## ▶ Gerds funktionierendes Beispiel für eine konditionale Sequenz

 eine Seite bullboard Traxelierung der Montille

Open at Thursday, Feb 11 2010 at 00:00 (CET)

 eine dritte einfache Seite Über-mich-Seite von riegler:fhwfdev

## ▶ Neues Verzeichnis

 Kulturelle Sprachen in Deutschland

Not currently assigned.

 test (2 parts)

Not currently assigned.

 test-2 (2 parts)

Open, no due date





**Course Documents** (fhwf\_3b14959d691ad4981fhwf1  
ss2009fbi\_numerics)

Peter Riegler  
Course Coordinator  
FbI - Numerical Computing  
SS2009

Verify Content

Check/Set Resource Versions

Dump Course DOCS to Construction Space

Export Course to IMS

List Syms

Show Log

Editing the Table of Contents for your Course

Haupt-Kursdokumente ▶ **Vorlesungsaufzeichnungen**

◆ (1) ▼	<a href="#">Remove</a> <a href="#">Cut</a> <a href="#">Rename</a> <a href="#">Copy</a>	pdf	nc-20090305.pdf	<input type="checkbox"/> Hidden	<input type="checkbox"/> URL hidden
◆ (2) ▼	<a href="#">Remove</a> <a href="#">Cut</a> <a href="#">Rename</a> <a href="#">Copy</a>	pdf	nc-20090312.pdf	<input type="checkbox"/> Hidden	<input type="checkbox"/> URL hidden
◆ (3) ▼	<a href="#">Remove</a> <a href="#">Cut</a> <a href="#">Rename</a> <a href="#">Copy</a>	pdf	nc-20090402.pdf	<input type="checkbox"/> Hidden	<input type="checkbox"/> URL hidden
◆ (4) ▼	<a href="#">Remove</a> <a href="#">Cut</a> <a href="#">Rename</a> <a href="#">Copy</a>	pdf	nc-20090416.pdf	<input type="checkbox"/> Hidden	<input type="checkbox"/> URL hidden
◆ (5) ▼	<a href="#">Remove</a> <a href="#">Cut</a> <a href="#">Rename</a> <a href="#">Copy</a>	pdf	nc-20090507.pdf	<input type="checkbox"/> Hidden	<input type="checkbox"/> URL hidden

**Upload a new main course document**

**Import a document**

**Special documents**

File:

Title:

If HTML file, upload embedded images/multimedia files?

Published documents

All documents out of a published map into this folder

**Mathematik für Philosophen**[Main Menu](#)[Return to Last Location](#)[Navigate Contents](#)[Edit Course](#)[Groups](#)

Switch course role to... ▾

# Course Documents

[Peter Riegler](#)

Course Coordinator

Mathematik für Philosophen

Mathematik für Philosophen » **Course Documents****Main Course Documents****Supplemental Course Documents**[Editing the Table of Contents for your Course](#) ⓘ**Main Course Documents**[New Document](#)[Published Documents](#)[Special Documents](#)[Tools](#)[Hide all Options](#) ▾Haupt-Kursdokumente » **Beispielübungsblatt Nr. 1**

↑ ↓	(1) ▾	<a href="#">Remove</a> <a href="#">Cut</a> <a href="#">Rename</a> <a href="#">Copy</a>	? <a href="#">Arqument komplexer Zahlen</a>	<input type="checkbox"/> Hidden	<input type="checkbox"/> URL hidden
↑ ↓	(2) ▾	<a href="#">Remove</a> <a href="#">Cut</a> <a href="#">Rename</a> <a href="#">Copy</a>	? <a href="#">auswahl.problem</a>	<input type="checkbox"/> Hidden	<input type="checkbox"/> URL hidden
↑ ↓	(3) ▾	<a href="#">Remove</a> <a href="#">Cut</a> <a href="#">Rename</a> <a href="#">Copy</a>	? <a href="#">Traxelierung der Montille</a>	<input type="checkbox"/> Hidden	<input type="checkbox"/> URL hidden
↑ ↓	(4) ▾	<a href="#">Remove</a> <a href="#">Cut</a> <a href="#">Rename</a> <a href="#">Copy</a>	? <a href="#">Schwinqung</a>	<input type="checkbox"/> Hidden	<input type="checkbox"/> URL hidden
↑ ↓	(5) ▾	<a href="#">Remove</a> <a href="#">Cut</a> <a href="#">Rename</a> <a href="#">Copy</a>	? <a href="#">Beispielfunktion</a>	<input type="checkbox"/> Hidden	<input type="checkbox"/> URL hidden



LON-CAPA Impulse Concepts - Mozilla Firefox

File Edit View History Bookmarks Tools Help

Main Menu Navigate Contents Edit Course Groups Switch course role to... Other Roles Help Exit

Go to the previous resource in the course sequence

Go to the next resource in the course sequence

Show catalog information

Modify user grades for this assessment resource

Modify parameter settings for this resource

Provide my evaluation of this resource

Provide feedback messages or contribute to the course discussion about this resource

Prepare a printable document

Set a bookmark for this resource

Make notes and annotations about this resource

FBI - Physik SS2009, Impuls und Stöße: Impulse Concepts

A small cart carrying a small physics student (total mass =  $M$ ) is designed to coast into the wall (at speed  $v_i$ ) and bounce off traveling in the opposite direction (at speed  $v_f$ ). In doing so, the wall must deliver an impulse to the cart. Which of the following suggestions would increase the magnitude of the impulse delivered by the wall. All nonspecified variables ( $v_i$ ,  $v_f$ , and  $M$ ) remain constant unless the stated conditions imply some change. For each statement select either Yes or No.

Yes: Make the cart experience a greater change in momentum.

No: Design the cart with a new bumper so contact time is increased.

Yes: Increase the total mass of the cart and rider.

No: Halve the force and double the time of contact with the wall.

No: Decrease  $v_f$ .

No: Turn the cart around and back into the wall.


Computer's answer now shown above. Tries 0/4









Post Discussion

Send Message

Done

vita.sonia.de

[Main Menu](#) [Navigate Contents](#) [Edit Course](#) [Groups](#)  

 Course Content ▶ ... ▶ Practise ▶ **Problem Problem 42**       

Enter your question text here. The current answer is "NaCl" and it is case sensitive.



Tries 0

 Post Discussion  Send Message

[Main Menu](#) [Navigate Contents](#) [Edit Course](#) [Groups](#)  



 Course Content ▶ ... ▶ Practise ▶ **Problem Problem 42**       

Additional Functions

 [Modify user grades for this assessment resource](#)  [Modify parameter settings for this resource](#)

Enter your question text here. The current answer is "NaCl" and it is case sensitive.

Tries 0

 Post Discussion  Send Message





# Miscellaneous

Likely to be released already with 2.9:

- Consistent wording
- Chinese user interface
- Mimetex alignment



Suppose that  $S$  is not bounded above. Then for any  $n \in \mathbf{N}$  there is  $y_n \in S$  so that  $y_n > \boxed{\phantom{0}}$ . It follows that  $K = \{y_n : n \in \mathbf{N}\}$  is an infinite  of  $S$ . By our assumption, there is  $b \in S$  that is an  of  $K$ . We suppose that  $b \notin K$ . Otherwise, we replace  $K$  by  $K \setminus \{b\}$ .

Let  $m \in \mathbf{N}$  be so that  $m \leq b < m+1$ . Let  $\epsilon = (1/2) \cdot \min\{|b - y_i| : 1 \leq i \leq m+1\}$ . Since  $b \notin K$  it follows that  $\epsilon > \boxed{\phantom{0}}$ . Clearly,  $N^*(b, \epsilon) \cap K \boxed{\phantom{0}} \emptyset$ . This  our assumption that  $b$  is an  of  $K$ . Therefore,  $K$  does not exist and  $S$  must be  above. Similarly, we show that  $S$  is bounded below.



## Please

- Don't hardcode **jsmath** in your problems.
- Instead: Configure your course environment such that **jsmath** is the default rendering method.

Force all students in the course to use a specific math rendering engine.  
("jsMath", "mimetex" (Convert to Images), "tth" (TeX to HTML), or  
blank for student's preference)



# Praise





Thanks

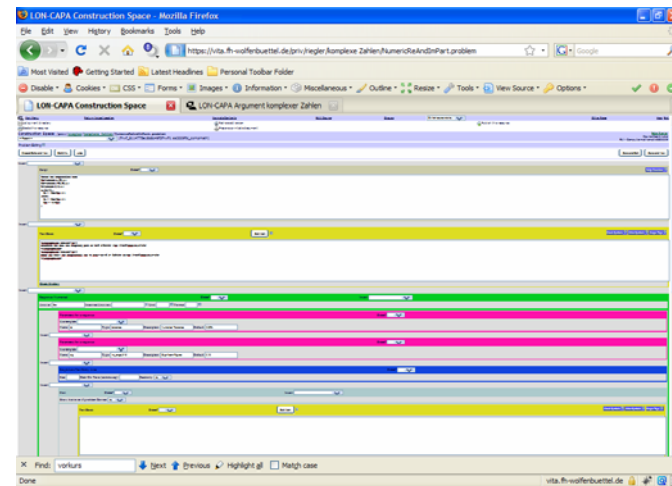






# Future

- Redesign needs to be ongoing.
- We need code/style policy and police.
- As usual any helping hand is useful and welcome.





## Come & See

- 11:00 am in E-26A