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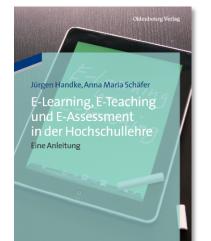
Education in the 21st Century Electronic Assessment

9 February 2017, Lugano, J. Handke



References











2012

Handke, J./Schäfer, A.M.

2015

Handke, J.

2015 HFD, AP #3

2016

HFD, AP #15



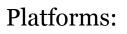
English Linguistics @ Marburg University

... some of our milestones ...

2000	The Virtual Linguistics Campus
2006	INVERTED CLASSROOM
2009	E-Assessment (summative)
2012	You Tube
2013	Inverted Classroom Mastery Learning BYOD, collaborative scenarios
2016	BYOD in E-Assessment
2017 ++	



English Linguistics @ Marburg University 3





~ 14.000 users



~ 550 educational videos

~ 34.000 subscribers ~ 3.5 mill. clicks



The Virtual Linguistics Campus

Students:

- Teacher Degree (ca. 750)
- BA (ca. 300)
- MA (ca. 50)
- **Course Formats:**
- 2-in-1
 - FLOCK
 - SPOOC
 - MOOC
 - pMOOC

E-Assessment (on campus):

E-Assessment (pMOOCs):

- ~ 1.000 summative e-tests/year
- ~ 10.000 formative e-tests/year
- ~ 30.000 summative e-tests/year











- 2. Scenarios of Testing
- 3. Test Types and Formats
- 4. Benefits and Consequences





The Elements of E-Education









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11h

• Scenarios







• Stages



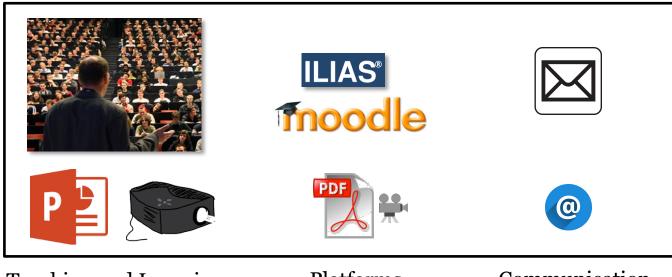












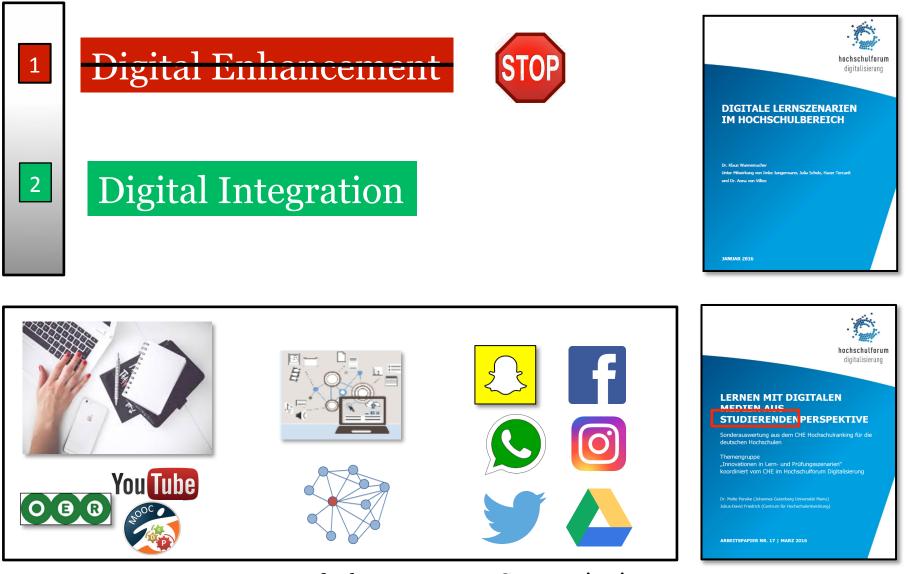
Teaching and Learning

Platforms

Communication







Teaching and Learning

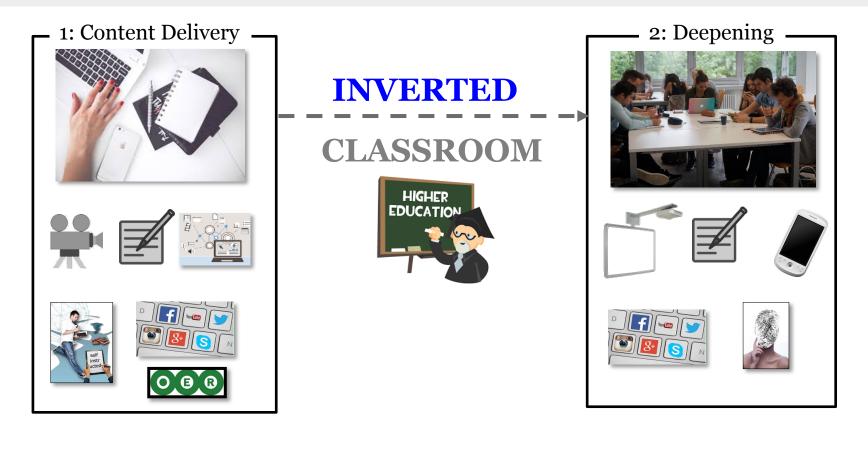
Platforms

Communication



The Inverted Classroom Model









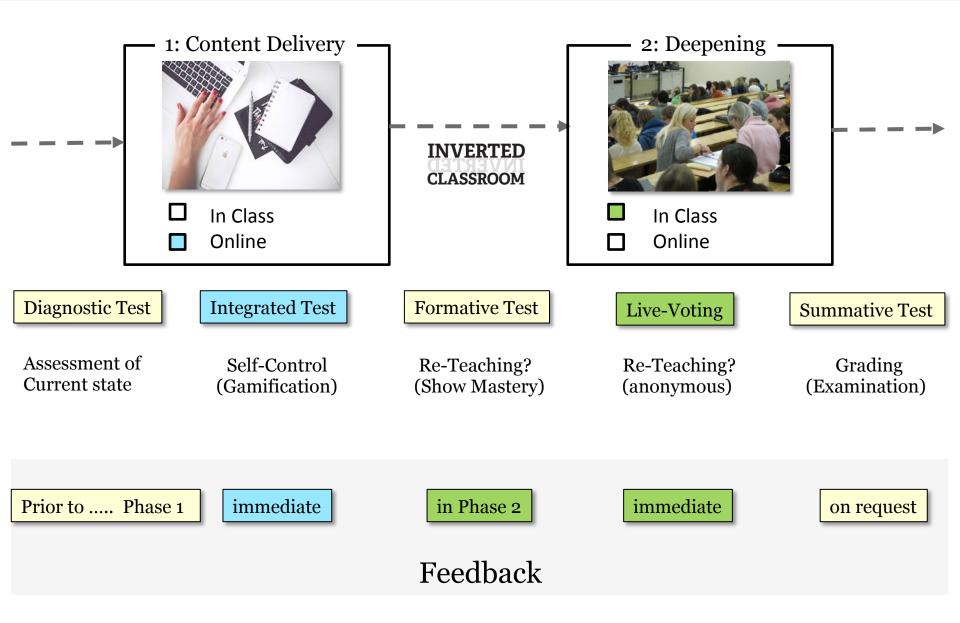
- 1. Digital Teaching and Learning
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Feedback









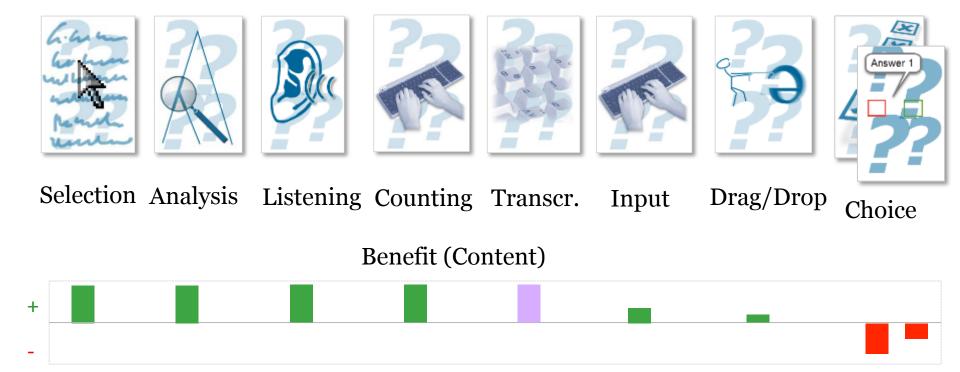
- 1. Digital Teaching and Learning
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Benefit (administrative)

- correction effort
- result transmission
- objectivity



-2))

Diagnostic (Pre-) Tests



Diagnostic Test

Active: 15 October 2015, 13:59:00 CEST - 15 October 2015, 16:00:00 CEST

This e-exam consists of the following components:

Test	Туре	Description		No. of questions	Time allowed (mins.)	Status
General Questions	Multiple Choice	General questions about the class	50	50	00:37:30	Access
Input Task	Naming Task	Questions about the class	20	20	No time limit	Access
IPA Consonants	Listening Task	Identification of IPA consonants	10	30	No time limit	Access
Transcribing RP Words	Transcription Task	The phonemic transcription of RP words	10	12	No time limit	Access
Transcribing AmE Words	Transcription Task	The phonemic transcription of AmE words	10	12	No time limit	Access

- knowledge survey
- formative effects via additional offers

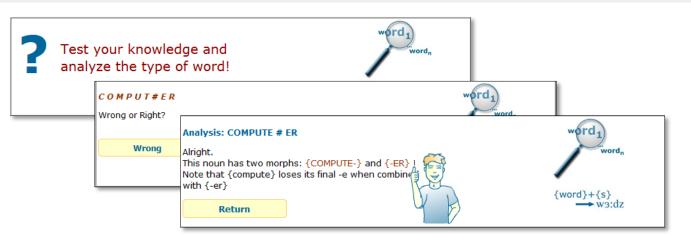
About the Exam General Questions Input Task IPA Consonants Transcribing RP Words Transcribing AmE Words

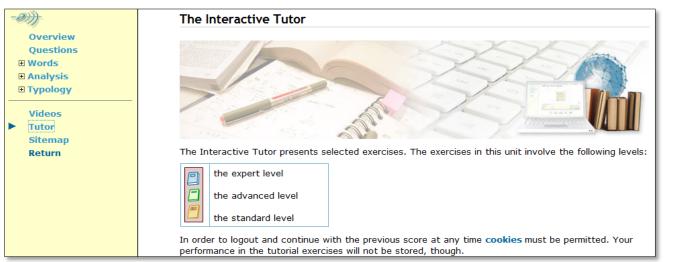
Finish Exam



Integrated Tests







- gamification
- immediate feedback
- learner motivation
- no storage of results





Test Types

- Choice
- Drag & Drop
- Pointing

Formative Tests





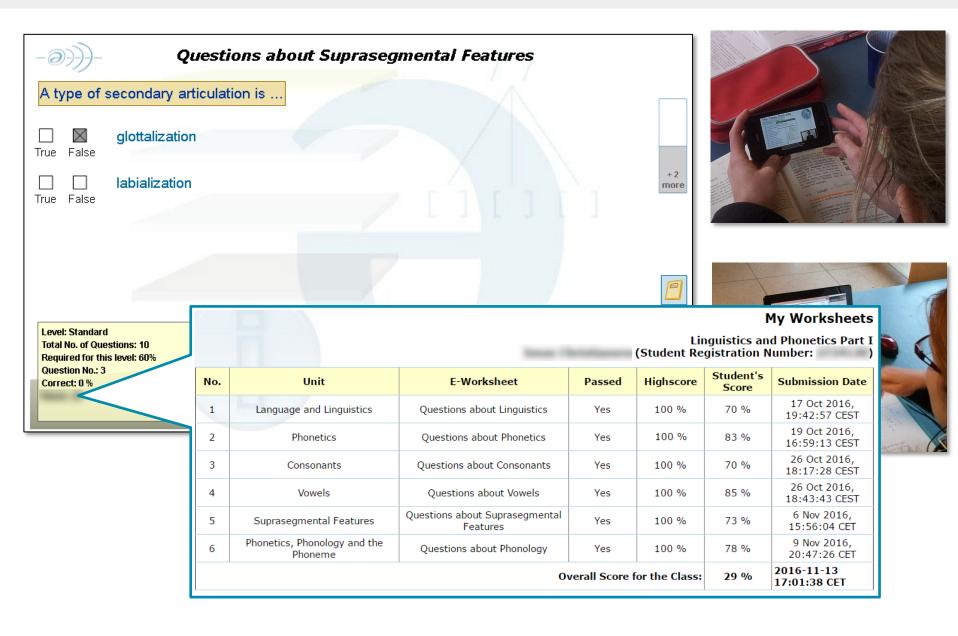
- survey of required knowledge
- formative effects: re-teaching or not?
- not anonymous
- storage of results

Test Types

- Single Choice
- Multiple Choice
- Dynamic Choice
- Input

Formative Tests

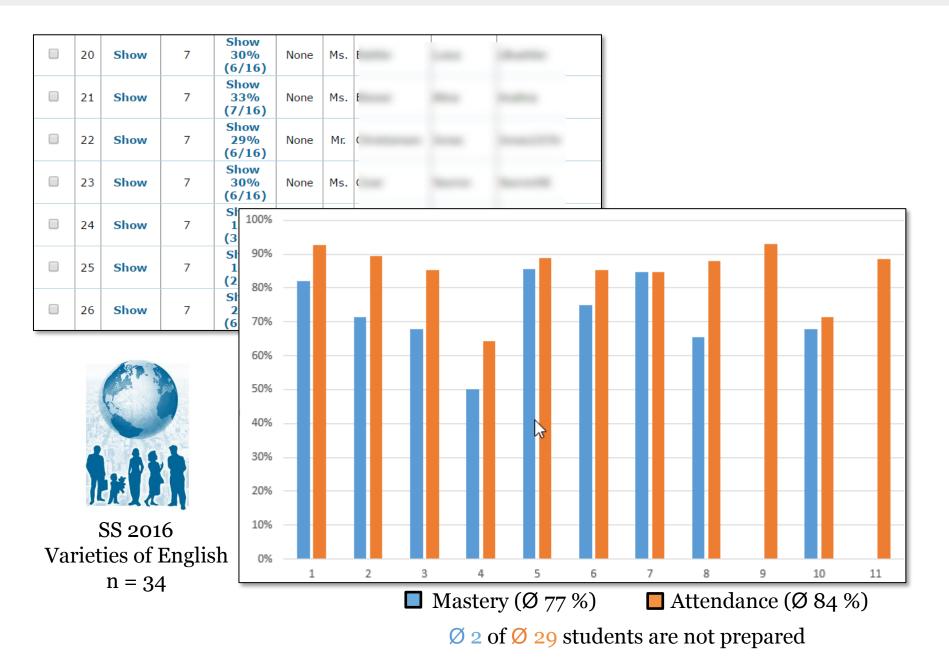






Formative Tests and Attendance







Live-Voting







- survey of required knowledge
- formative effects: direct reaction in class
- anonymous



Summative Tests



BYOD

E-Exam

Active: 11 February 2017, 09:59:00 CET - 11 February 2017, 11:30:00 CET

This e-exam consists of the following components:

Test	Туре	Description			Time allowed (mins.)	Status
Counting Task (Analysis)	Counting Task	Counting elements in context	10	10	No time limit	Access
Input Task	Naming Task	Questions about the class	30	30	No time limit	Access
EMnE Consonants	Listening Task	Identification of EMnE Consonants	10	10	No time limit	Access
Selection Task	Selection Task	Elements in context	20	20	No time limit	Access
Counting Task	Counting Task	Counting elements in context	30	15	No time limit	Access



Test Types

- Selection Tasks
- Counting Tasks
- Input Tasks
- Audio-Based Tasks
- Segmentation Tasks
- grading
- certification



Summative Tests and the Internet









E-Exam - Google Chrome	
) linguistics.online.uni-marburg.de/secure/gen	eralmodules/e_exams_real/e_exam_unit_standalone/genun#tart.html?e_exam_info_ID=215
-2)))-	Selection Task
About the Exam Selection Task Input Task (Phonetics) Counting Task Counting Task (Analysis) Morphological Analysis Input Task (Linguistics) Segmenting Words Selection Task (Syntax)	Identify the Correct Pair in RP! fall-stall blood-bud meet-met dead-fed done-won greet-grade
Finish Exam	Click on all pairs in the set that are NOT minimal pairs I

History of English, E-Exam: 90 minutes

First "BYOD"/Exam-Statistics

- 36 participants (all used the web)
 - 28 passed (3 x time-out)
 - 8 failed (3 x time-out)
- average time spent on web: 10 mins
- average no. of internet accesses: 18





- 1. Digital Teaching and Learning
- 2. Scenarios of Testing
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The central question ...









"What is the benefit of E-Assessment?



Benefit – for whom?





The Guides



The Institution





The students



Politics



The Institution





- quality assurance
- new financial sources
- new partners

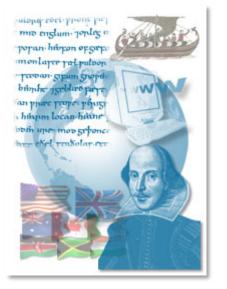


- technical infra-structure
- investment
- e-assessment administration



Traditional Assessment





History of English, traditional (until 2010) #Students ~ 120

Scenario	# Tests	# Students	Total
Summative (unit)	4 * 1	120	480
Summative (course)	1*4	120	480



#Tests = 960



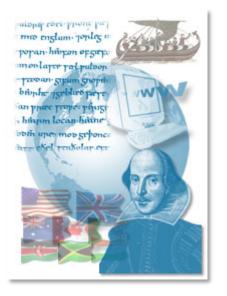
Correction time per test: 5 - 10 Min. Estimated correction time per test = 5 Min => 4.800 Min => 80 Hrs= 10 days à 8 Hrs !!

Summative (course) only, per Test = 3 Min => 1.440 Min => 24 hrs= 3 days à 8 Hrs !!



E-Assessment





History of English, ICMM, On Campus, WT 2014/15 #Students = 147

Scenario	# Tests	# Students	Total
Diagnostic	1*4	124	494
Integrated	42	?	?
Formative	13	147	1.911
Live-voting	13	?	?
Summative (Unit)	4 * 1	141	564
Summative (Course)	1*4	147	588





#Tests = 3.557 (10.671 Min. ~ 178 Hrs. ~ 22 Days)

Correction effort *History of English* (E-Assessment): **4** Hrs = **0**,**5** working days (incl. Live-Voting = **1**,**0** Day) !!



The Guides





- reduction of correction effort
- simple test-compilation
- immediate result statistics
- new test options





- high developmental effort
- high organisational effort
- guidance may be required
- compromises needed



The Students





- fast result transmission
- objectivity
- possibility of guessing



- objectivity
- high difficulty level

E-Exams +
$$\mathcal{BYOD}$$
 = tests become more difficult









Guides

- Coaching
- more media competence
- testing of new formats



Students

- high self-responsibility
- E-Assessment as a standard
- high media competence



- creating incentives
- building the technical infra-structure
 - simple e-assessment-administration





The Future ?



The Future is already here! (Gibson, 2003)

- ICMM, 2-in-1, FLOCK
- SPOOC, MOOC, pMOOC (part of our curriculum)





- mobile assessment
- robot assistance
- collaborative assessment



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Thanks for your attention !

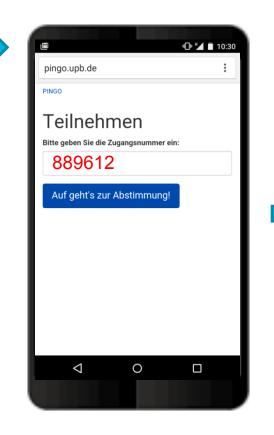
Jürgen Handke handke@uni-marburg.de



Electronic Assessment



http://pingo.upb.de





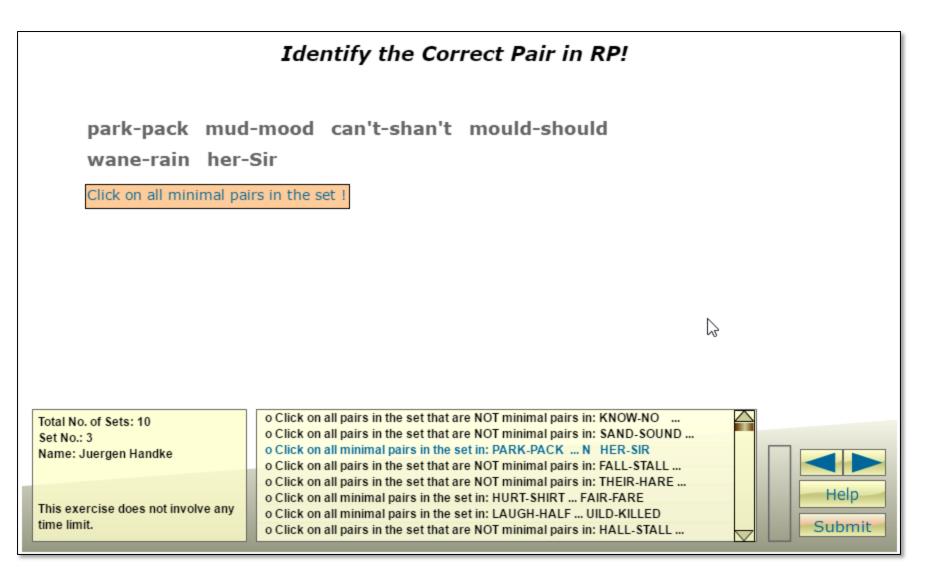


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Selection Tasks

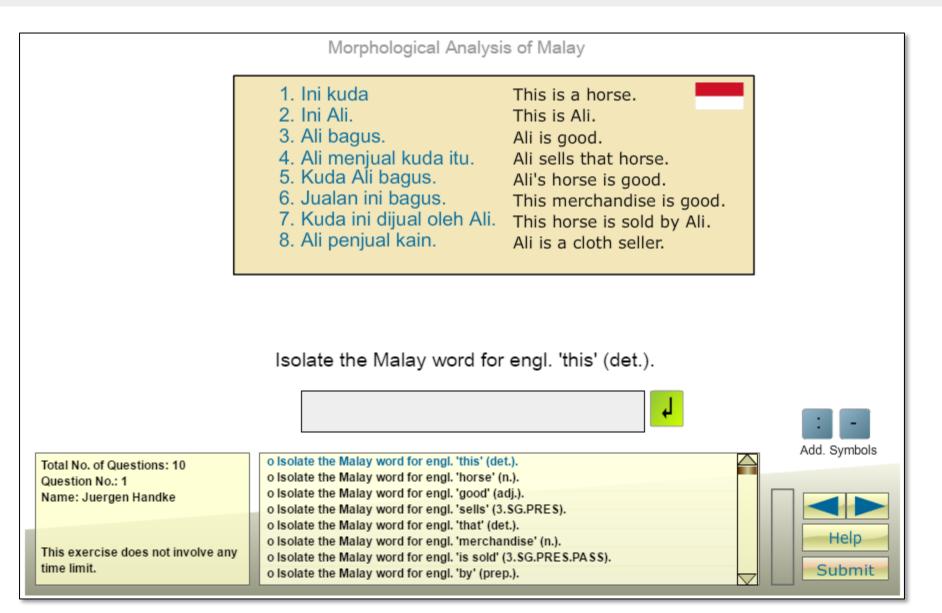






Analysis Tasks







Listening Tasks

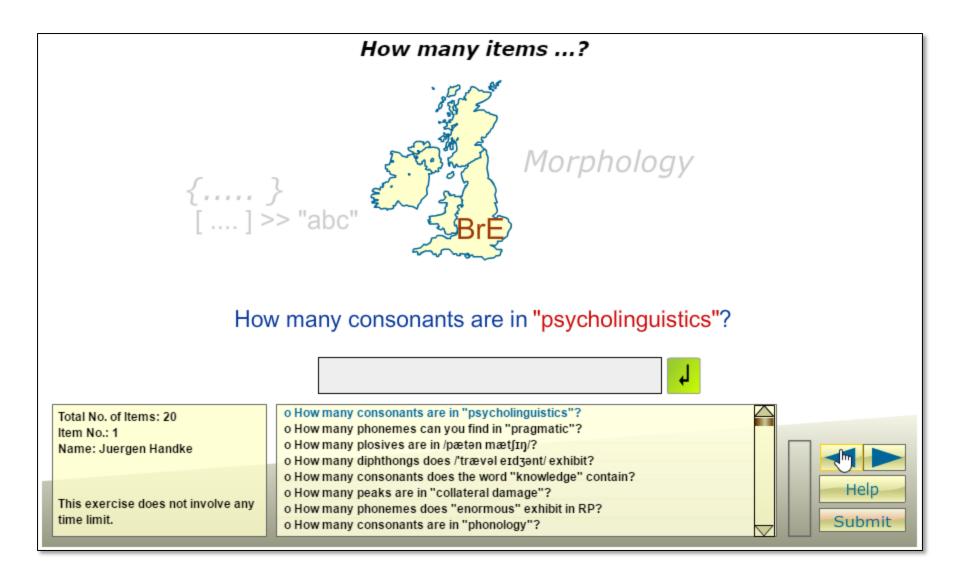


				Con	ison	ants	(EMı	nE)					
	LET	Bilabial	Labio- dental	Dental	Alveola	Post- alveolar	Retroflex	Palatal	Velar	Uvular	Pharyn- geal	Glottal	
	Plosive	p b			t d				k g				Alt .
	Nasal												
	Trill												
	Affricate					<u>tf</u>							
	Fricative		fv	θð	S Z	J 3						h	
	Lateral Fricative												
	Approximant												
	Lateral Approximant												
Total No. of Co Consonant No Name: Juerge	.: 1		Your a	nswer	has be	en sto	red!				Draw	/	LET
This exercise time limit.	does not involve any										Help		Submit



Counting Tasks

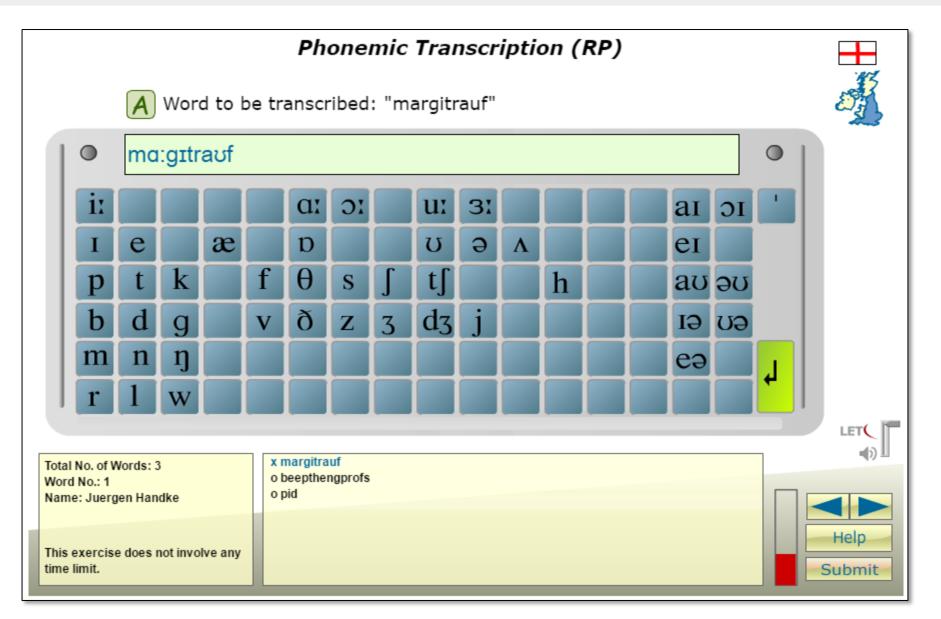






Transcription Tasks







Input Tasks



Questions about English Linguistics



The 'central' component of a speech act that describes what the speaker does by uttering a sentence is known as the ...

	ل
Total No. of Questions: 20 Question No.: 1 Name: Juergen Handke	o The 'central' component of a speech act tence is known as the o When a lexeme comes to refer to only par ing we have a case of o Which syntactic function is in a copular ionship with another one? o What is the complement in [I find him a funny guy.]?
This exercise does not involve any time limit.	o Which types of major sentence may occur without an overt subject? o What is the pink area referred to? o What is the verb in [My other daughter is called Jessica.]? o What is the verb in [We will be walking down the street.]?