

Through the eyes of the teacher

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Author Note

The study was carried out with the permission of the Ethics Committee of the University of Leipzig.

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Abstract

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11 This document is a supplement to the paper and shows first graphs findings from the pilot
12 study.

13 *Keywords:* Professional Vision, Expert-Novice-Paradigm, Eye-Tracking

14 Word count: 1949

Through the eyes of the teacher

State of research

Teaching and classroom management are multidimensional settings in which teachers have to respond immediately to events as they develop (Barnes, 2004). The different interests and abilities of students must be managed in a way that maximizes the active learning time of students and minimizes disruptions whilst teaching. Learning to develop such classroom management skills and to teach effectively is a complicated and complex process (Wolff, Jarodzka, & Boshuizen, 2017).

During teaching, teachers must be able to select from a variety of visual and acoustic impressions to focus their attention on the essential and to distinguish between relevant and irrelevant events. This ability is called professional vision and is a key component of teacher expertise and successful teaching (Barth, 2017). Eye tracking technology has become a reliable means to study teachers' visual focus of attention (Bogert, 2016; Pouta, Lehtinen, & Palonen, 2020; Wolff, Jarodzka, & Boshuizen, 2017)

Educational research has repeatedly shown that there are differences between experienced and novice teachers in terms of perception and behavioral competencies (Barth, 2017; Bogert, 2016; Wolff, Jarodzka, & Boshuizen, 2017). For example, experts direct their attention more often and more evenly to all students, whereas novices only direct their attention to some students. The frequency and duration of fixations as eye movement are decisive (Stuermer, Seidel, Mueller, Häusler, & Cortina, 2017). Mobile eye-tracking technology has also shown that experienced teachers distribute their focus more efficiently to solve tasks (Jarodzka, Scheiter, Gerjets, & Van Gog, 2010). Furthermore, in contrast to novices, experts are able to focus their attention on the entire class and guide the class while giving feedback to individual students and answering questions (Cortina, Miller, McKenzie, & Epstein, 2015).

Research questions

The aim of the pilot study was to investigate whether there are differences in how expert and novice teachers manage scripted classroom disruptions. The disruptions were experimentally varied using a previously written script. Thus, our aim was to find out whether differences in the allocation of attention between expertise groups can be detected in this controlled context.

In order to answer this question, the hypothesis was formulated that teachers with more professional experience not only notice more disruptions but also notice them faster. In the hypothesis, therefore, it is necessary to check what has already been shown in the research literature: In complex teaching situations, experts have a more structured and elaborate professional knowledge than novices in order to perceive and interpret relevant events and to act appropriately (Berliner, 2001; Lachner, Jarodzka, & Nückles, 2016).

Methods

We report how we determined our sample size, all data exclusions (if any), all manipulations, and all measures in the study.

Participants

For the sample recruitment of the subjects ($N = 48$, experts $n = 24$, novices $n = 24$), schools in the city of Leipzig in Saxony were contacted. The institutions as well as the subjects were informed in detail about the aim and intention of the study in advance. Participation in the study was voluntary and only took place after written consent has been given.

The selection of the subjects was based on extreme groups, whereby professional experience is the crucial criterion for the selection of experts or novices. Novices were recruited as teachers who have been working in the teaching profession for no more than 3

Table 1

Demographic Information and Teaching Experience

group	N	Male	M age	Min age	Max age	SD age	M exp.	Min exp.	Max exp.	SD exp.
expert	2	1	47.50	44	51	4.95	20.00	15.00	25.00	7.07
novice	6	2	25.67	20	33	4.89	0.68	0.00	1.50	0.68

years, whereas experts were considered to have professional experience of 10 years or more (Messner & Reusser, 2000).

Procedure/ Data collection

Set up. For this study, scripted mini-lessons with $n = 2$ experts and $n = 6$ novices were recorded in the mobile Lab of the Empirical School and Classroom Research at the University of Leipzig. The subjects were divided into groups of four, so the study was conducted on two different sessions. All participants were asked to hold a 10-minute lesson. The duration of each appointment was approximately 2h: per group 10min briefing, 4 x 10min mini-lessons, 10min technical preparation and follow-up and 4x 10min transition points between the lessons and answering questionnaires.

One person from the group of 4 acted as a teacher, the other three subjects acted as the class. The subjects, who represented the class, were given behavioral instructions in a pre-written script to simulate typical events and disruptions in the classroom (e.g. putting their heads on the table, chatting, looking at their mobile phones, etc.).

The lesson disruptions were displayed as instructions during the lesson for all “students” but not the teacher. In order to avoid learning effects, the disruptions in each lesson were distributed pseudo-randomly over the short teaching phase. In addition, the order of the data collection was taken into account in the analyses and variance caused by

82 order was controlled.



Figure 1. Example for set up during a mini-lesson

83 **Questionnaire data.** After each mini-lesson, the subjects answered items on the
 84 teaching quality using a validated questionnaire ((Helmke et al. (2014))) and scales on the
 85 teacher's presence behavior. An external observer also completed the questionnaire. In
 86 addition, the teacher was asked to give a self-assessment on his/her classroom management
 87 by completing the questionnaire.

88 **Behavioral data.** The speech, sounds and voices were recorded with an audio
 89 recorder installed in the middle of the Lab. Movements, facial expressions and gestures of
 90 the subjects were recorded by four cameras from different angles. One camera was installed
 91 to film the class from the side. Two more cameras were installed on the blackboard and at
 92 the end of the Lab to film the teacher and class from the front and back. Furthermore, the
 93 fourth camera was installed in such a way that only facial expressions and gestures of the

teacher were recorded, which enables a semi-automated analysis of the movement sequences.

Eyetracking data. A binocular Tobii Pro Glasses 2 eye-tracker consisting of a wearable head unit and a recording unit was used to record the eye movements of all 8 participants. The head unit is a measuring device with different sensitive sensors. A high-definition scene camera captures a full HD video and an integrated microphone records the surrounding sounds. Infrared light illuminators support the eye tracking sensors which record the eye orientation. The videos were recorded with a sampling rate of 50 Hz and a video resolution with 1920 x 1080 at 25 frames per second. The scene camera has a field of view of 90 deg. in 16:9 format (82 deg. horizontal and 52 deg. vertical) and has a frame dimension of 179 x 159 x 57mm (width x depth x height). The Tobii Pro Glasses Controller software was used to record and calibrate the eye movements.

Coding/ Data preparation/ Reliability

Questionnaire Data. The evaluation after each mini-lesson was conducted using paper questionnaires. Time needed to complete the questionnaire was about 5 minutes. The scales on the quality of teaching are a validated questionnaire (Helmke et al. (2014)). Whereas the scales on the teacher's presence behavior were derived from the research literature (Brophy (1986); Kiel, Frey, Weiß, and Weiss (2013); Kounin (2006); Marzano (2007); Nolting (2012)) and were used in the pilot for the first time.

The following scales were assessed:

- (1) Classroom management
- (2) Positive climate and motivation
- (3) Clarity and structuredness
- (4) Activation and support
- (5) Presence: posture/gaze

(6) Presence: voice

(7) Presence: verbal and non-verbal intervention

(8) Natural behaviour

The table at the end of the manuscript provides an overview over the mean, the range and standard deviation of all scales.

Table 2

Mean values of all scales

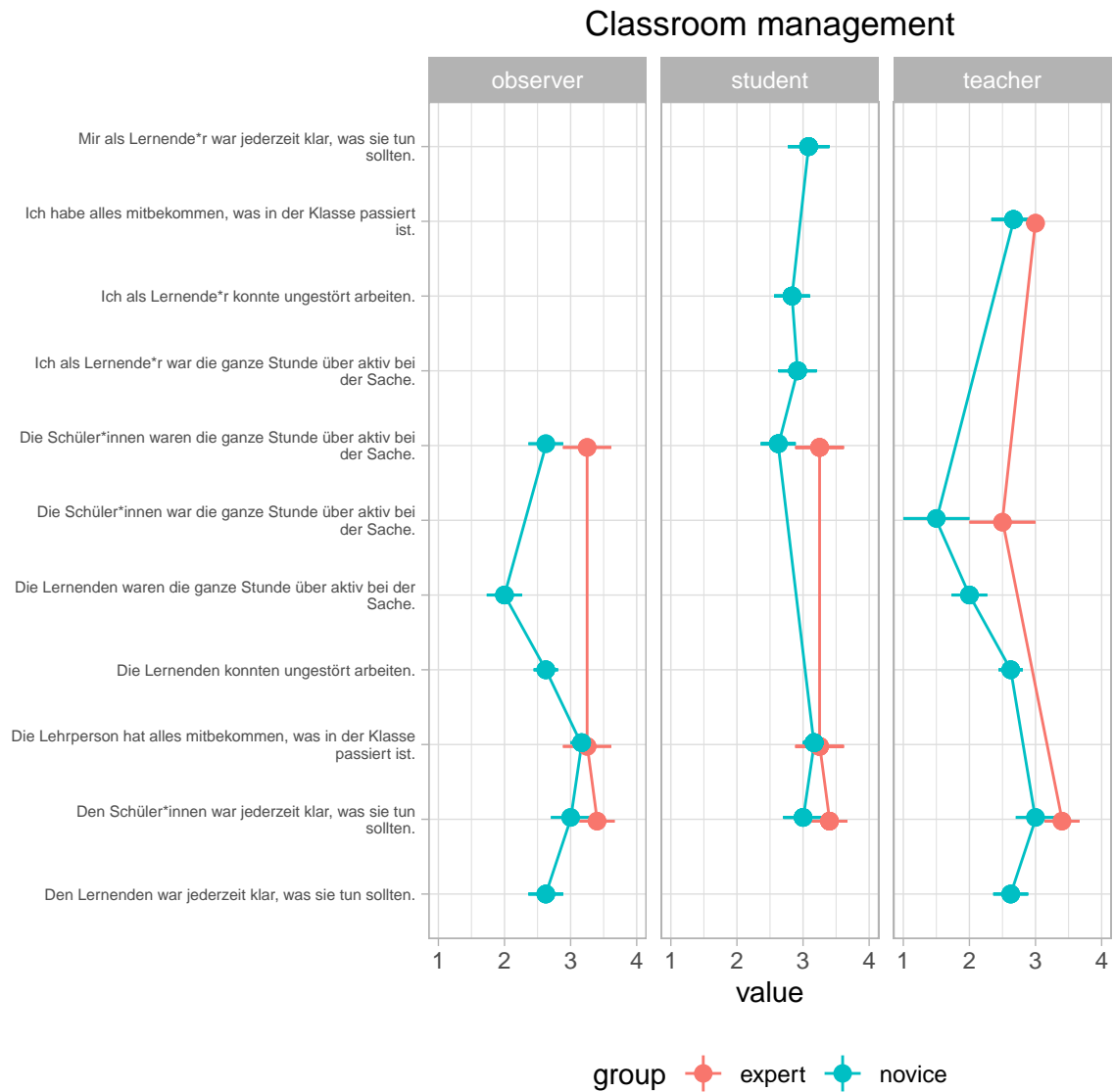
group	scale	M scale	min scale	max scale	SD scale
expert	Activation and support	3.33	2.00	4.00	0.80
	Clarity and structuredness	3.70	1.00	4.00	0.73
	Classroom management	3.23	1.00	4.00	0.90
	Natural behaviour	3.57	2.00	4.00	0.63
	Positive climate and motivation	3.60	2.00	4.00	0.62
	Presence: posture/gaze	3.29	1.00	4.00	0.92
	Presence: verbal and non-verbal intervention	3.07	2.00	4.00	0.78
	Presence: voice	3.57	2.00	4.00	0.63
novice	Activation and support	2.23	0.00	4.00	1.39
	Clarity and structuredness	3.35	1.00	4.00	0.76
	Classroom management	2.82	1.00	4.00	0.90
	Natural behaviour	3.13	2.00	4.00	0.71
	Positive climate and motivation	3.11	0.00	4.00	0.90
	Presence: posture/gaze	2.95	0.00	4.00	0.95
	Presence: verbal and non-verbal intervention	2.88	1.00	4.00	0.97
	Presence: voice	3.30	2.00	4.00	0.74

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The individual items of a scale are further represented in graphs.

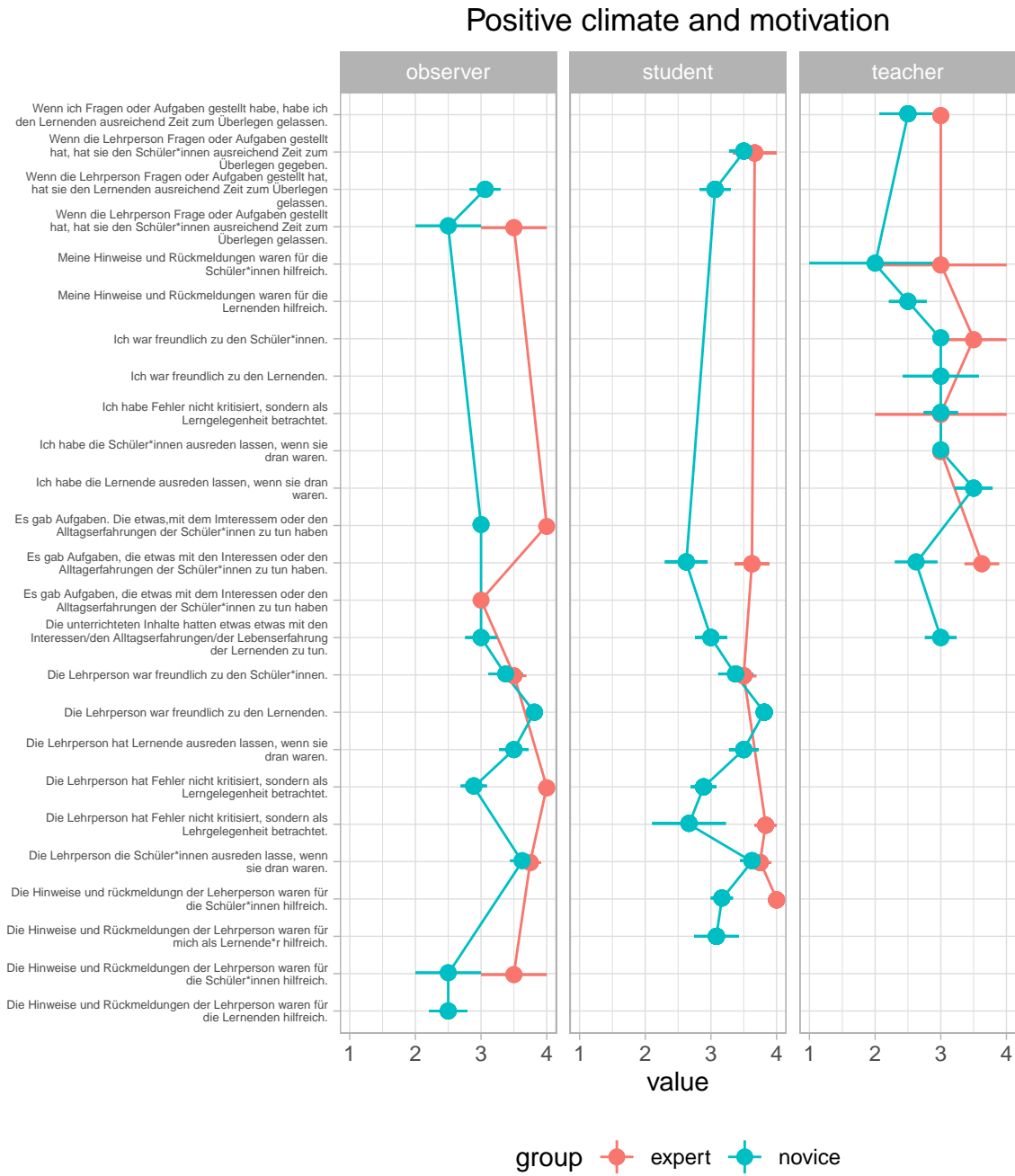
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(1) Classroom management

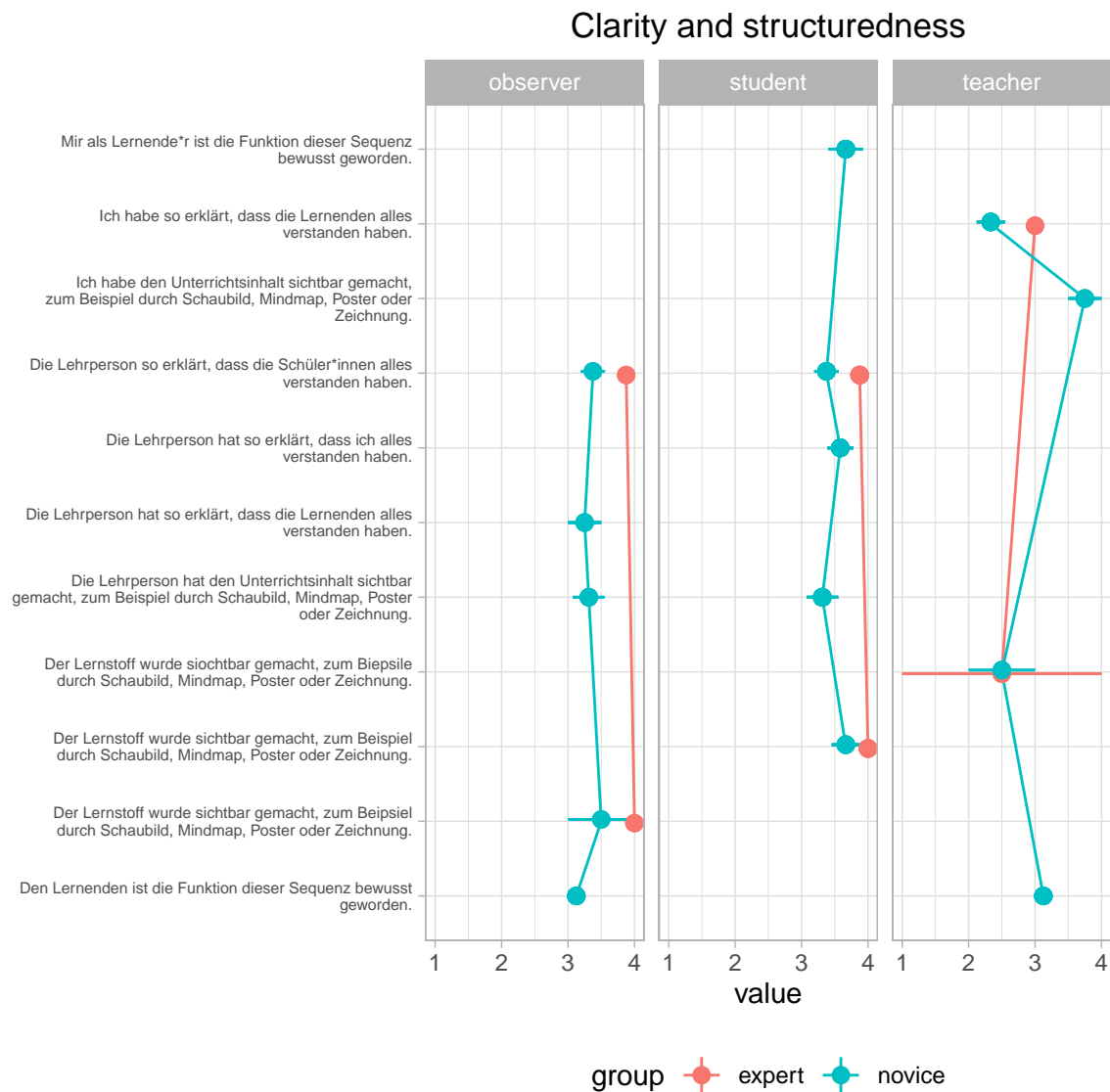


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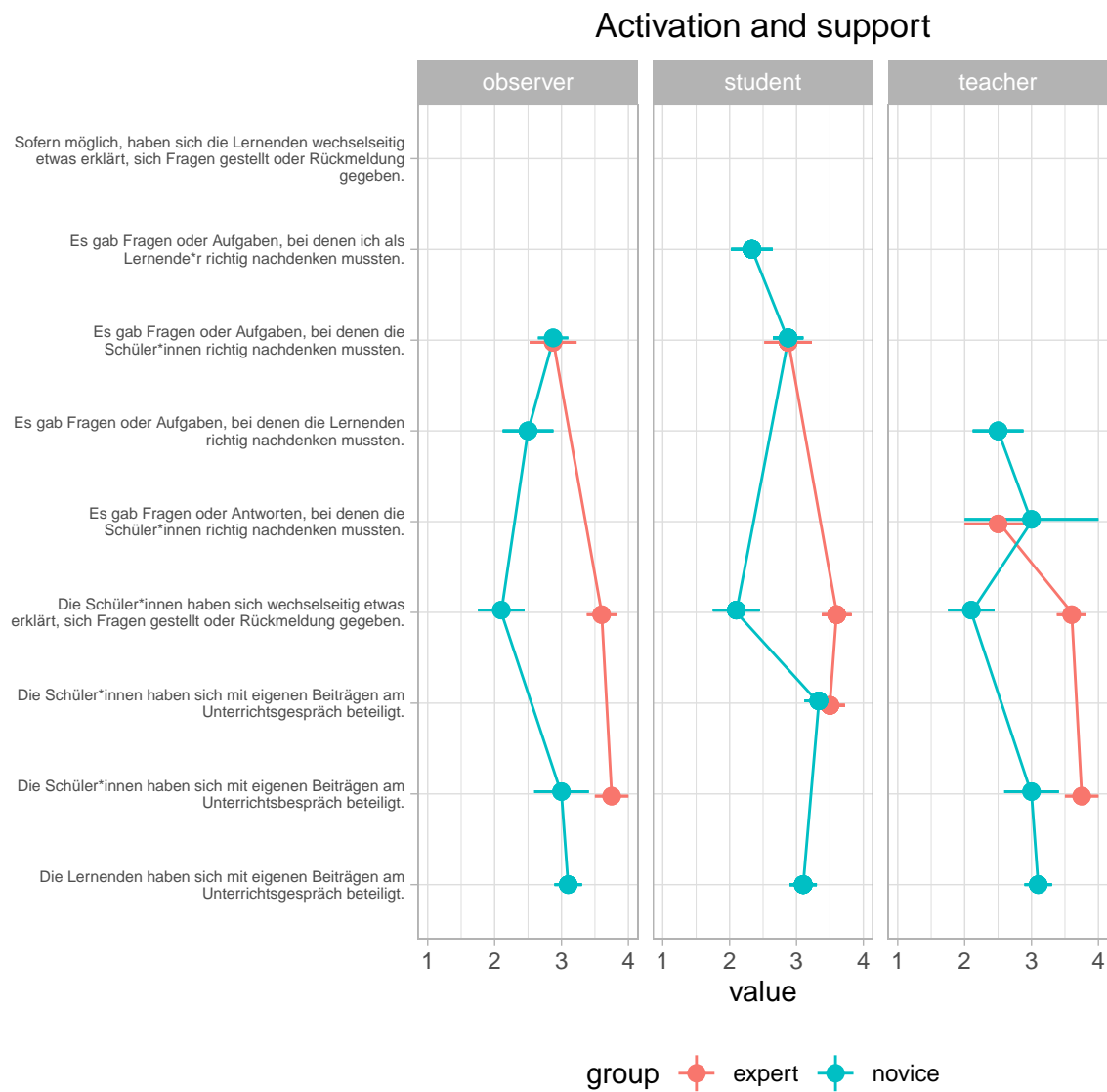
127 (2) Positive climate and motivation



129 (3) Clarity and structuredness



131 (4) Activation and support



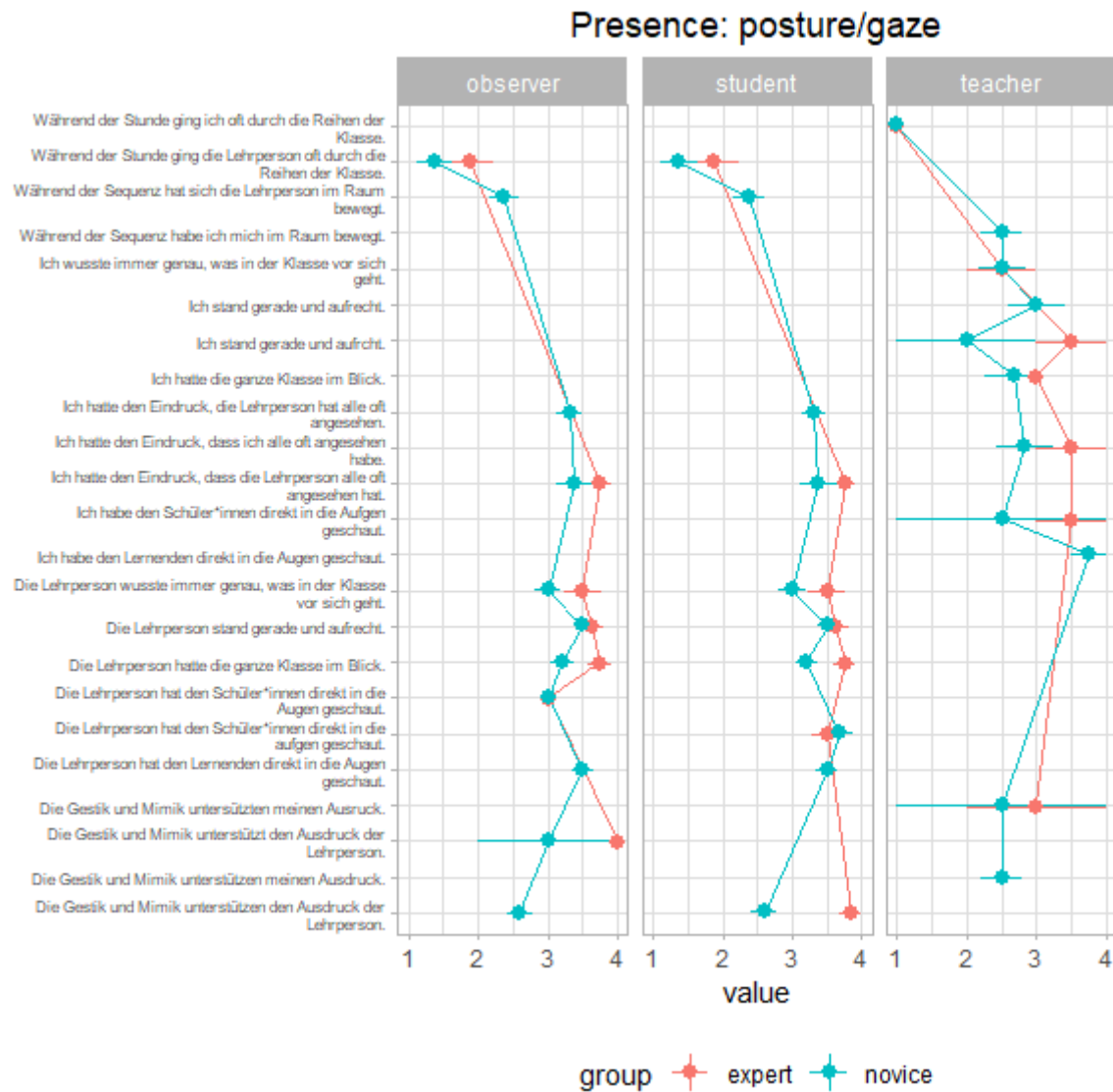


Figure 2. (5) Presence: posture/gaze

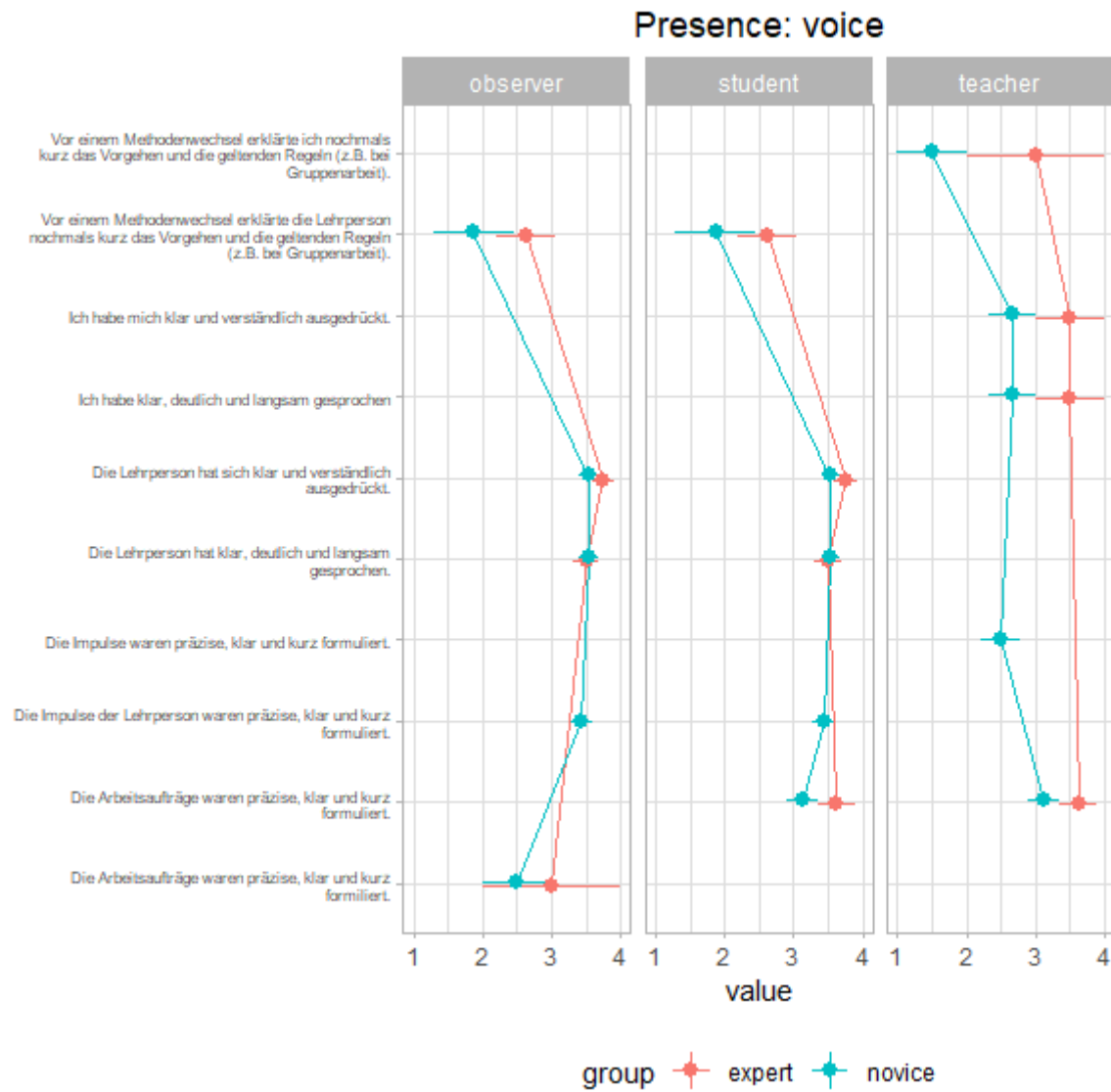


Figure 3. (6) Presence: voice

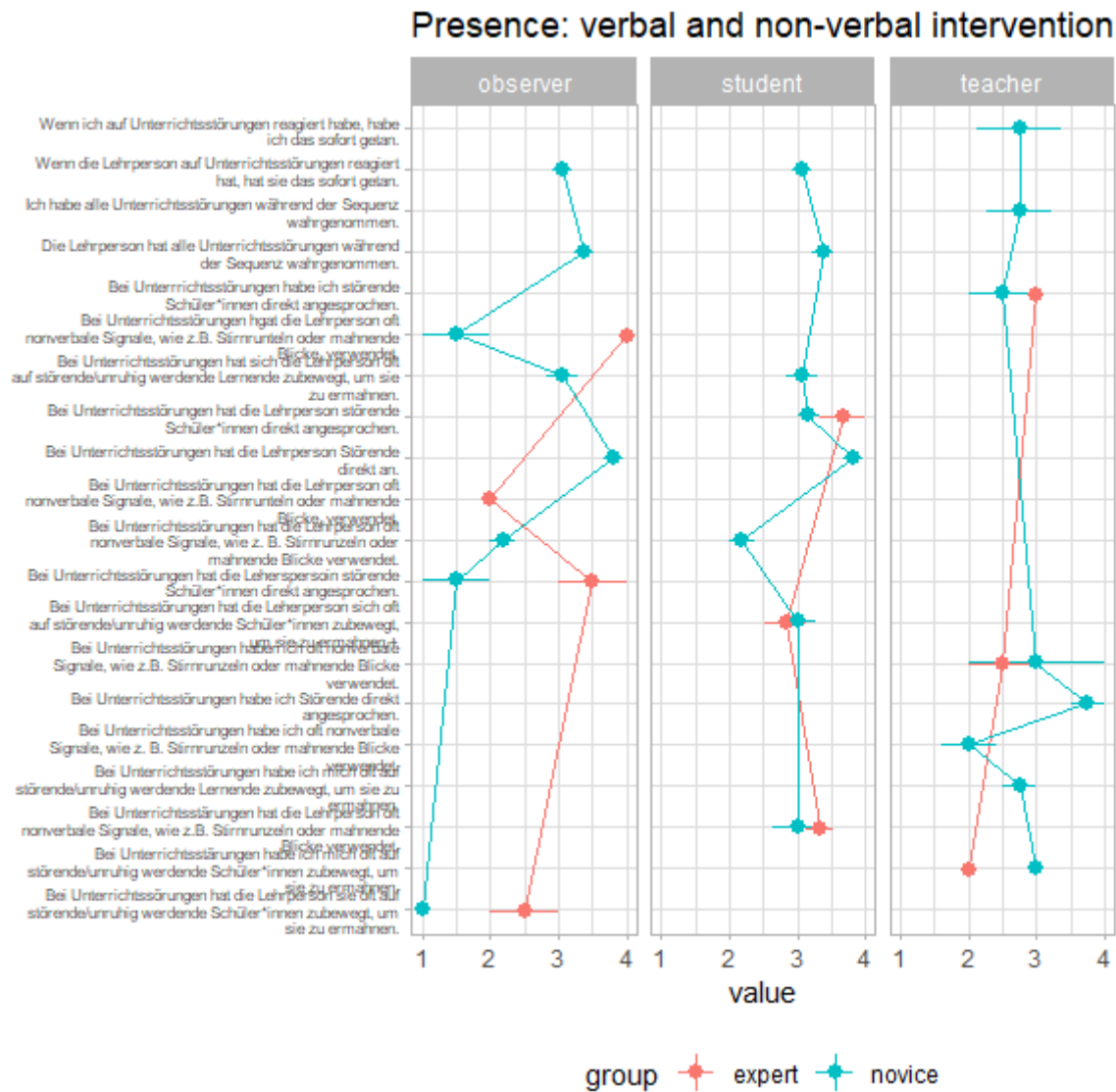
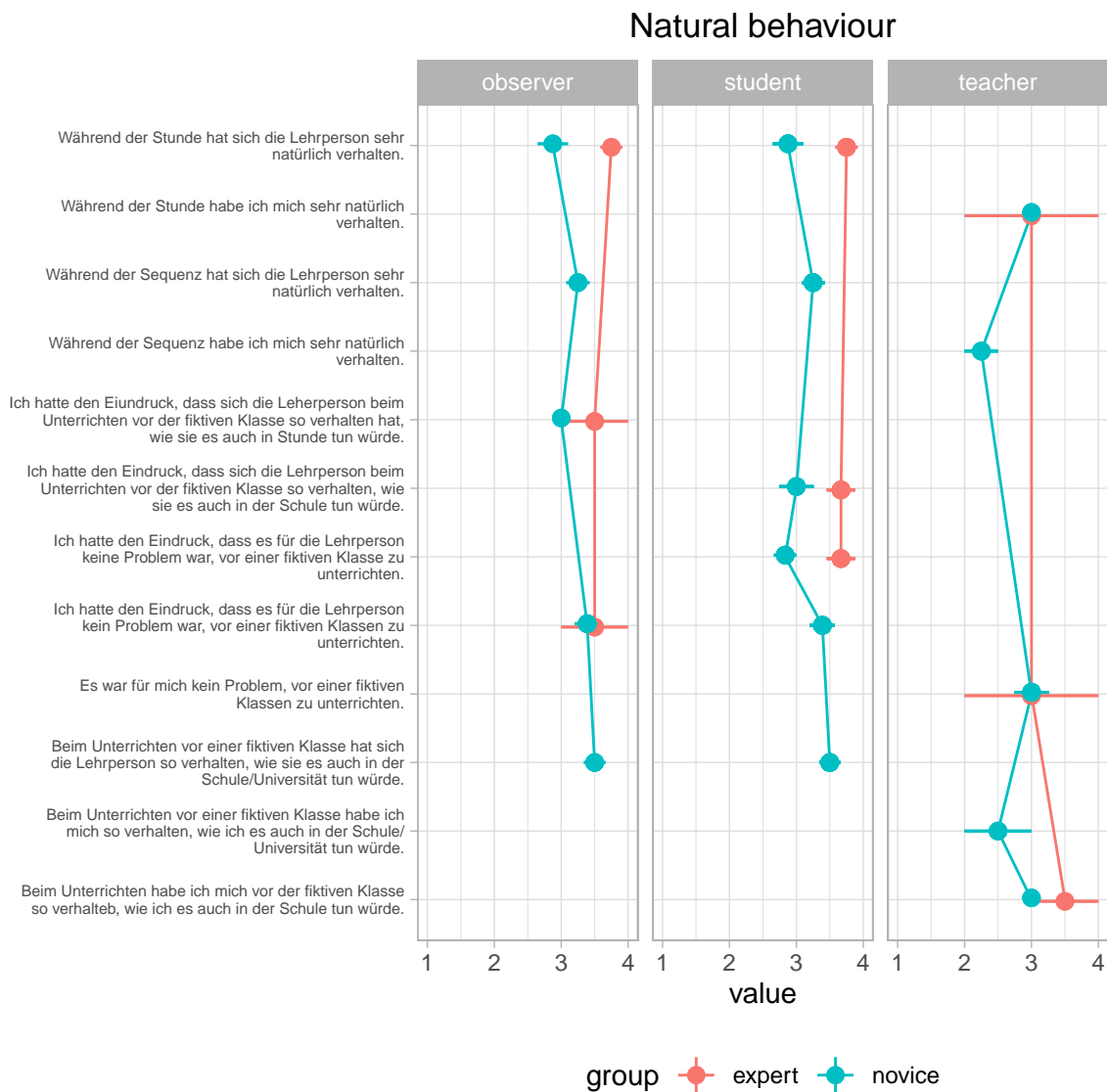
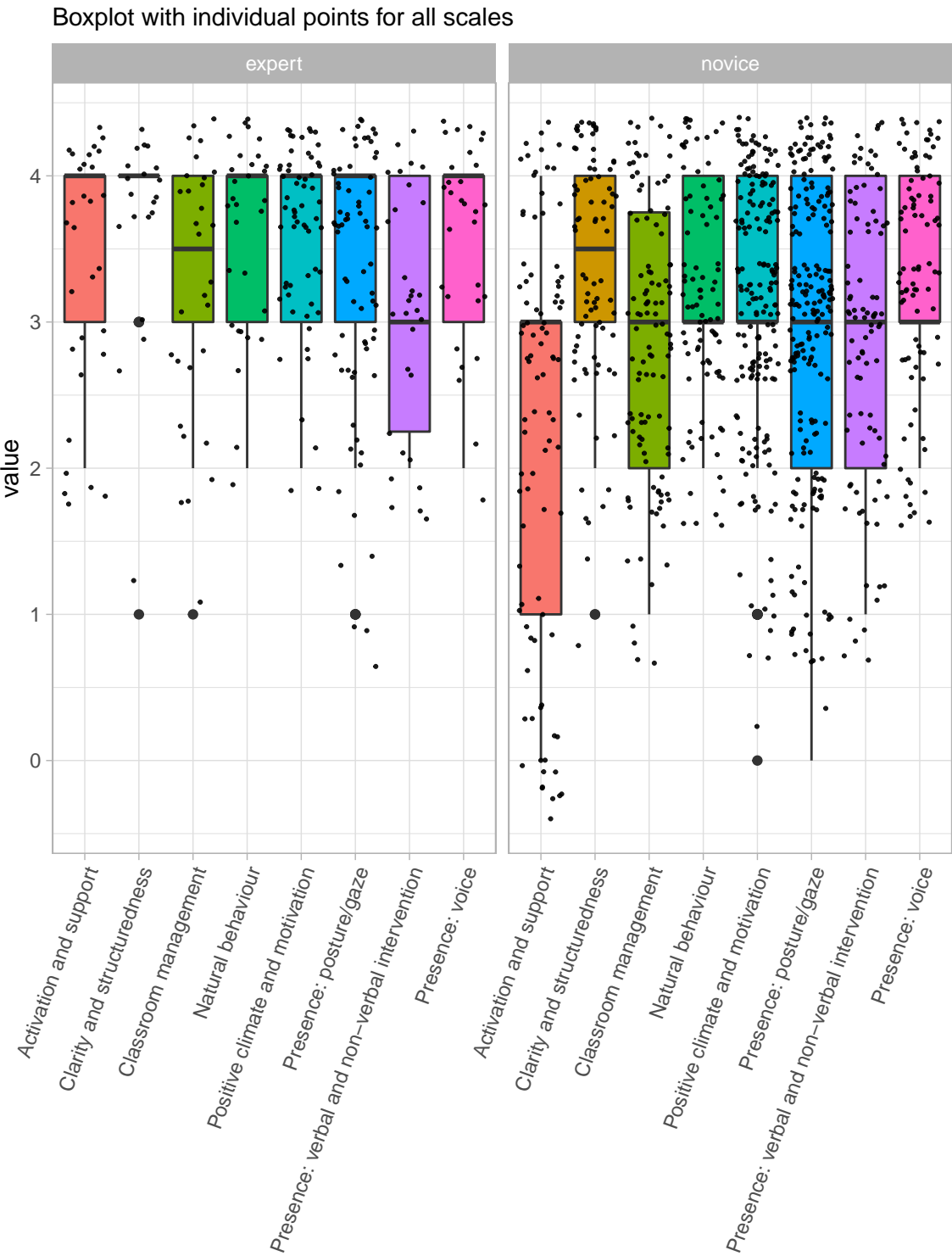


Figure 4. (7) Presence: verbal and non-verbal intervention

133 (8) Natural behaviour



135 In addition, we plotted all scales. Graph provides boxplots and individual data for
136 experts and novices.



Behavioral Data. The recorded lessons were coded in a post-hoc procedure with the coding software MAXQDA by previously trained raters (Kuckartz and Rädiker (2019)). The following coding scheme was developed:

First, we coded the speaking time of the teacher and the students to compare all perspectives: coder, observer, students, teacher. The graph below shows the result of the coded speaking duration compared to the estimated speaking duration assessed with the questionnaire.

```
## 'data.frame':  325 obs. of  7 variables:
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## $ Dokumentname    : chr  "Aperol_pilot_01_01_expert_D_cam4" "Aperol_pilot_01_01_expe
## $ Code             : chr  "Phase\\lesson begin" "speaking time\\teacher" "speaking ti
## $ Anfang          : chr  "0:00:44,0" "0:00:44,3" "0:00:49,2" "0:00:51,0" ...
## $ Ende            : chr  "0:00:44,2" "0:00:47,2" "0:00:50,7" "0:00:52,7" ...
## $ Fläche          : chr  "00:00:00,2" "00:00:02,8" "00:00:01,4" "00:00:01,6" ...
## $ Abdeckungsgrad..: num  0.04 0.39 0.19 0.22 0.12 0.13 0.19 1.58 7.3 0.54 ...

##      Dokumentgruppe Dokumentname  Code Anfang  Ende Fläche Abdeckungsgrad..
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358	## [205,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
359	## [206,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
360	## [207,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
361	## [208,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
362	## [209,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
363	## [210,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
364	## [211,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
365	## [212,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
366	## [213,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
367	## [214,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
368	## [215,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
369	## [216,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
370	## [217,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
371	## [218,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
372	## [219,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
373	## [220,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
374	## [221,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
375	## [222,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
376	## [223,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
377	## [224,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
378	## [225,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
379	## [226,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE

380	## [227,]	FALSE	FALSE FALSE	FALSE FALSE	FALSE	FALSE
381	## [228,]	FALSE	FALSE FALSE	FALSE FALSE	FALSE	FALSE
382	## [229,]	FALSE	FALSE FALSE	FALSE FALSE	FALSE	FALSE
383	## [230,]	FALSE	FALSE FALSE	FALSE FALSE	FALSE	FALSE
384	## [231,]	FALSE	FALSE FALSE	FALSE FALSE	FALSE	FALSE
385	## [232,]	FALSE	FALSE FALSE	FALSE FALSE	FALSE	FALSE
386	## [233,]	FALSE	FALSE FALSE	FALSE FALSE	FALSE	FALSE
387	## [234,]	FALSE	FALSE FALSE	FALSE FALSE	FALSE	FALSE
388	## [235,]	FALSE	FALSE FALSE	FALSE FALSE	FALSE	FALSE
389	## [236,]	FALSE	FALSE FALSE	FALSE FALSE	FALSE	FALSE
390	## [237,]	FALSE	FALSE FALSE	FALSE FALSE	FALSE	FALSE
391	## [238,]	FALSE	FALSE FALSE	FALSE FALSE	FALSE	FALSE
392	## [239,]	FALSE	FALSE FALSE	FALSE FALSE	FALSE	FALSE
393	## [240,]	FALSE	FALSE FALSE	FALSE FALSE	FALSE	FALSE
394	## [241,]	FALSE	FALSE FALSE	FALSE FALSE	FALSE	FALSE
395	## [242,]	FALSE	FALSE FALSE	FALSE FALSE	FALSE	FALSE
396	## [243,]	FALSE	FALSE FALSE	FALSE FALSE	FALSE	FALSE
397	## [244,]	FALSE	FALSE FALSE	FALSE FALSE	FALSE	FALSE
398	## [245,]	FALSE	FALSE FALSE	FALSE FALSE	FALSE	FALSE
399	## [246,]	FALSE	FALSE FALSE	FALSE FALSE	FALSE	FALSE
400	## [247,]	FALSE	FALSE FALSE	FALSE FALSE	FALSE	FALSE
401	## [248,]	FALSE	FALSE FALSE	FALSE FALSE	FALSE	FALSE
402	## [249,]	FALSE	FALSE FALSE	FALSE FALSE	FALSE	FALSE
403	## [250,]	FALSE	FALSE FALSE	FALSE FALSE	FALSE	FALSE
404	## [251,]	FALSE	FALSE FALSE	FALSE FALSE	FALSE	FALSE
405	## [252,]	FALSE	FALSE FALSE	FALSE FALSE	FALSE	FALSE
406	## [253,]	FALSE	FALSE FALSE	FALSE FALSE	FALSE	FALSE

407	## [254,]	FALSE	FALSE FALSE	FALSE FALSE	FALSE	FALSE
408	## [255,]	FALSE	FALSE FALSE	FALSE FALSE	FALSE	FALSE
409	## [256,]	FALSE	FALSE FALSE	FALSE FALSE	FALSE	FALSE
410	## [257,]	FALSE	FALSE FALSE	FALSE FALSE	FALSE	FALSE
411	## [258,]	FALSE	FALSE FALSE	FALSE FALSE	FALSE	FALSE
412	## [259,]	FALSE	FALSE FALSE	FALSE FALSE	FALSE	FALSE
413	## [260,]	FALSE	FALSE FALSE	FALSE FALSE	FALSE	FALSE
414	## [261,]	FALSE	FALSE FALSE	FALSE FALSE	FALSE	FALSE
415	## [262,]	FALSE	FALSE FALSE	FALSE FALSE	FALSE	FALSE
416	## [263,]	FALSE	FALSE FALSE	FALSE FALSE	FALSE	FALSE
417	## [264,]	FALSE	FALSE FALSE	FALSE FALSE	FALSE	FALSE
418	## [265,]	FALSE	FALSE FALSE	FALSE FALSE	FALSE	FALSE
419	## [266,]	FALSE	FALSE FALSE	FALSE FALSE	FALSE	FALSE
420	## [267,]	FALSE	FALSE FALSE	FALSE FALSE	FALSE	FALSE
421	## [268,]	FALSE	FALSE FALSE	FALSE FALSE	FALSE	FALSE
422	## [269,]	FALSE	FALSE FALSE	FALSE FALSE	FALSE	FALSE
423	## [270,]	FALSE	FALSE FALSE	FALSE FALSE	FALSE	FALSE
424	## [271,]	FALSE	FALSE FALSE	FALSE FALSE	FALSE	FALSE
425	## [272,]	FALSE	FALSE FALSE	FALSE FALSE	FALSE	FALSE
426	## [273,]	FALSE	FALSE FALSE	FALSE FALSE	FALSE	FALSE
427	## [274,]	FALSE	FALSE FALSE	FALSE FALSE	FALSE	FALSE
428	## [275,]	FALSE	FALSE FALSE	FALSE FALSE	FALSE	FALSE
429	## [276,]	FALSE	FALSE FALSE	FALSE FALSE	FALSE	FALSE
430	## [277,]	FALSE	FALSE FALSE	FALSE FALSE	FALSE	FALSE
431	## [278,]	FALSE	FALSE FALSE	FALSE FALSE	FALSE	FALSE
432	## [279,]	FALSE	FALSE FALSE	FALSE FALSE	FALSE	FALSE
433	## [280,]	FALSE	FALSE FALSE	FALSE FALSE	FALSE	FALSE

434	## [281,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
435	## [282,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
436	## [283,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
437	## [284,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
438	## [285,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
439	## [286,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
440	## [287,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
441	## [288,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
442	## [289,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
443	## [290,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
444	## [291,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
445	## [292,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
446	## [293,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
447	## [294,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
448	## [295,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
449	## [296,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
450	## [297,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
451	## [298,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
452	## [299,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
453	## [300,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
454	## [301,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
455	## [302,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
456	## [303,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
457	## [304,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
458	## [305,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
459	## [306,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
460	## [307,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE

461	## [308,]	FALSE	FALSE FALSE	FALSE FALSE	FALSE	FALSE
462	## [309,]	FALSE	FALSE FALSE	FALSE FALSE	FALSE	FALSE
463	## [310,]	FALSE	FALSE FALSE	FALSE FALSE	FALSE	FALSE
464	## [311,]	FALSE	FALSE FALSE	FALSE FALSE	FALSE	FALSE
465	## [312,]	FALSE	FALSE FALSE	FALSE FALSE	FALSE	FALSE
466	## [313,]	FALSE	FALSE FALSE	FALSE FALSE	FALSE	FALSE
467	## [314,]	FALSE	FALSE FALSE	FALSE FALSE	FALSE	FALSE
468	## [315,]	FALSE	FALSE FALSE	FALSE FALSE	FALSE	FALSE
469	## [316,]	FALSE	FALSE FALSE	FALSE FALSE	FALSE	FALSE
470	## [317,]	FALSE	FALSE FALSE	FALSE FALSE	FALSE	FALSE
471	## [318,]	FALSE	FALSE FALSE	FALSE FALSE	FALSE	FALSE
472	## [319,]	FALSE	FALSE FALSE	FALSE FALSE	FALSE	FALSE
473	## [320,]	FALSE	FALSE FALSE	FALSE FALSE	FALSE	FALSE
474	## [321,]	FALSE	FALSE FALSE	FALSE FALSE	FALSE	FALSE
475	## [322,]	FALSE	FALSE FALSE	FALSE FALSE	FALSE	FALSE
476	## [323,]	FALSE	FALSE FALSE	FALSE FALSE	FALSE	FALSE
477	## [324,]	FALSE	FALSE FALSE	FALSE FALSE	FALSE	FALSE
478	## [325,]	FALSE	FALSE FALSE	FALSE FALSE	FALSE	FALSE

479 ## integer(0)

480	##	Dokumentname	Code	Anfang	Ende	Fläche	Abdeckungsgrad..
481	##	[1,]	FALSE FALSE	FALSE FALSE	FALSE		FALSE
482	##	[2,]	FALSE FALSE	FALSE FALSE	FALSE		FALSE
483	##	[3,]	FALSE FALSE	FALSE FALSE	FALSE		FALSE
484	##	[4,]	FALSE FALSE	FALSE FALSE	FALSE		FALSE
485	##	[5,]	FALSE FALSE	FALSE FALSE	FALSE		FALSE
486	##	[6,]	FALSE FALSE	FALSE FALSE	FALSE		FALSE

487	##	[7,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
488	##	[8,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
489	##	[9,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
490	##	[10,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
491	##	[11,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
492	##	[12,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
493	##	[13,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
494	##	[14,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
495	##	[15,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
496	##	[16,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
497	##	[17,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
498	##	[18,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
499	##	[19,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
500	##	[20,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
501	##	[21,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
502	##	[22,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
503	##	[23,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
504	##	[24,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
505	##	[25,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
506	##	[26,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
507	##	[27,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
508	##	[28,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
509	##	[29,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
510	##	[30,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
511	##	[31,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
512	##	[32,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
513	##	[33,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE

514	##	[34,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
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516	##	[36,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
517	##	[37,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
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521	##	[41,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
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523	##	[43,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
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525	##	[45,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
526	##	[46,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
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530	##	[50,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
531	##	[51,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
532	##	[52,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
533	##	[53,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
534	##	[54,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
535	##	[55,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
536	##	[56,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
537	##	[57,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
538	##	[58,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
539	##	[59,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
540	##	[60,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE

541	##	[61,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
542	##	[62,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
543	##	[63,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
544	##	[64,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
545	##	[65,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
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547	##	[67,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
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549	##	[69,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
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552	##	[72,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
553	##	[73,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
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556	##	[76,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
557	##	[77,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
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559	##	[79,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
560	##	[80,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
561	##	[81,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
562	##	[82,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
563	##	[83,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
564	##	[84,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
565	##	[85,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
566	##	[86,]	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
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575	##	[95,]	FALSE	FALSE	FALSE	FALSE	FALSE
576	##	[96,]	FALSE	FALSE	FALSE	FALSE	FALSE
577	##	[97,]	FALSE	FALSE	FALSE	FALSE	FALSE
578	##	[98,]	FALSE	FALSE	FALSE	FALSE	FALSE
579	##	[99,]	FALSE	FALSE	FALSE	FALSE	FALSE
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581	##	[101,]	FALSE	FALSE	FALSE	FALSE	FALSE
582	##	[102,]	FALSE	FALSE	FALSE	FALSE	FALSE
583	##	[103,]	FALSE	FALSE	FALSE	FALSE	FALSE
584	##	[104,]	FALSE	FALSE	FALSE	FALSE	FALSE
585	##	[105,]	FALSE	FALSE	FALSE	FALSE	FALSE
586	##	[106,]	FALSE	FALSE	FALSE	FALSE	FALSE
587	##	[107,]	FALSE	FALSE	FALSE	FALSE	FALSE
588	##	[108,]	FALSE	FALSE	FALSE	FALSE	FALSE
589	##	[109,]	FALSE	FALSE	FALSE	FALSE	FALSE
590	##	[110,]	FALSE	FALSE	FALSE	FALSE	FALSE
591	##	[111,]	FALSE	FALSE	FALSE	FALSE	FALSE
592	##	[112,]	FALSE	FALSE	FALSE	FALSE	FALSE
593	##	[113,]	FALSE	FALSE	FALSE	FALSE	FALSE
594	##	[114,]	FALSE	FALSE	FALSE	FALSE	FALSE

595	##	[115,]	FALSE	FALSE	FALSE	FALSE	FALSE
596	##	[116,]	FALSE	FALSE	FALSE	FALSE	FALSE
597	##	[117,]	FALSE	FALSE	FALSE	FALSE	FALSE
598	##	[118,]	FALSE	FALSE	FALSE	FALSE	FALSE
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600	##	[120,]	FALSE	FALSE	FALSE	FALSE	FALSE
601	##	[121,]	FALSE	FALSE	FALSE	FALSE	FALSE
602	##	[122,]	FALSE	FALSE	FALSE	FALSE	FALSE
603	##	[123,]	FALSE	FALSE	FALSE	FALSE	FALSE
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613	##	[133,]	FALSE	FALSE	FALSE	FALSE	FALSE
614	##	[134,]	FALSE	FALSE	FALSE	FALSE	FALSE
615	##	[135,]	FALSE	FALSE	FALSE	FALSE	FALSE
616	##	[136,]	FALSE	FALSE	FALSE	FALSE	FALSE
617	##	[137,]	FALSE	FALSE	FALSE	FALSE	FALSE
618	##	[138,]	FALSE	FALSE	FALSE	FALSE	FALSE
619	##	[139,]	FALSE	FALSE	FALSE	FALSE	FALSE
620	##	[140,]	FALSE	FALSE	FALSE	FALSE	FALSE
621	##	[141,]	FALSE	FALSE	FALSE	FALSE	FALSE

622	## [142,]	FALSE	FALSE	FALSE	FALSE	FALSE
623	## [143,]	FALSE	FALSE	FALSE	FALSE	FALSE
624	## [144,]	FALSE	FALSE	FALSE	FALSE	FALSE
625	## [145,]	FALSE	FALSE	FALSE	FALSE	FALSE
626	## [146,]	FALSE	FALSE	FALSE	FALSE	FALSE
627	## [147,]	FALSE	FALSE	FALSE	FALSE	FALSE
628	## [148,]	FALSE	FALSE	FALSE	FALSE	FALSE
629	## [149,]	FALSE	FALSE	FALSE	FALSE	FALSE
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633	## [153,]	FALSE	FALSE	FALSE	FALSE	FALSE
634	## [154,]	FALSE	FALSE	FALSE	FALSE	FALSE
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643	## [163,]	FALSE	FALSE	FALSE	FALSE	FALSE
644	## [164,]	FALSE	FALSE	FALSE	FALSE	FALSE
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649	## [169,]	FALSE	FALSE	FALSE	FALSE	FALSE
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652	## [172,]	FALSE	FALSE	FALSE	FALSE	FALSE
653	## [173,]	FALSE	FALSE	FALSE	FALSE	FALSE
654	## [174,]	FALSE	FALSE	FALSE	FALSE	FALSE
655	## [175,]	FALSE	FALSE	FALSE	FALSE	FALSE
656	## [176,]	FALSE	FALSE	FALSE	FALSE	FALSE
657	## [177,]	FALSE	FALSE	FALSE	FALSE	FALSE
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661	## [181,]	FALSE	FALSE	FALSE	FALSE	FALSE
662	## [182,]	FALSE	FALSE	FALSE	FALSE	FALSE
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667	## [187,]	FALSE	FALSE	FALSE	FALSE	FALSE
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669	## [189,]	FALSE	FALSE	FALSE	FALSE	FALSE
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671	## [191,]	FALSE	FALSE	FALSE	FALSE	FALSE
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673	## [193,]	FALSE	FALSE	FALSE	FALSE	FALSE
674	## [194,]	FALSE	FALSE	FALSE	FALSE	FALSE
675	## [195,]	FALSE	FALSE	FALSE	FALSE	FALSE

676	##	[196,]	FALSE	FALSE	FALSE	FALSE	FALSE
677	##	[197,]	FALSE	FALSE	FALSE	FALSE	FALSE
678	##	[198,]	FALSE	FALSE	FALSE	FALSE	FALSE
679	##	[199,]	FALSE	FALSE	FALSE	FALSE	FALSE
680	##	[200,]	FALSE	FALSE	FALSE	FALSE	FALSE
681	##	[201,]	FALSE	FALSE	FALSE	FALSE	FALSE
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684	##	[204,]	FALSE	FALSE	FALSE	FALSE	FALSE
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687	##	[207,]	FALSE	FALSE	FALSE	FALSE	FALSE
688	##	[208,]	FALSE	FALSE	FALSE	FALSE	FALSE
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692	##	[212,]	FALSE	FALSE	FALSE	FALSE	FALSE
693	##	[213,]	FALSE	FALSE	FALSE	FALSE	FALSE
694	##	[214,]	FALSE	FALSE	FALSE	FALSE	FALSE
695	##	[215,]	FALSE	FALSE	FALSE	FALSE	FALSE
696	##	[216,]	FALSE	FALSE	FALSE	FALSE	FALSE
697	##	[217,]	FALSE	FALSE	FALSE	FALSE	FALSE
698	##	[218,]	FALSE	FALSE	FALSE	FALSE	FALSE
699	##	[219,]	FALSE	FALSE	FALSE	FALSE	FALSE
700	##	[220,]	FALSE	FALSE	FALSE	FALSE	FALSE
701	##	[221,]	FALSE	FALSE	FALSE	FALSE	FALSE
702	##	[222,]	FALSE	FALSE	FALSE	FALSE	FALSE

```

703 ## [223,]      FALSE FALSE  FALSE FALSE  FALSE      FALSE
704 ## [224,]      FALSE FALSE  FALSE FALSE  FALSE      FALSE
705 ## [225,]      FALSE FALSE  FALSE FALSE  FALSE      FALSE
706 ## [226,]      FALSE FALSE  FALSE FALSE  FALSE      FALSE
707 ## [227,]      FALSE FALSE  FALSE FALSE  FALSE      FALSE
708 ## [228,]      FALSE FALSE  FALSE FALSE  FALSE      FALSE
709 ## [229,]      FALSE FALSE  FALSE FALSE  FALSE      FALSE
710 ## [230,]      FALSE FALSE  FALSE FALSE  FALSE      FALSE

```

```

711 ## integer(0)

```

```

712 ## 'data.frame':   179 obs. of  5 variables:

```

```

713 ## $ Code          : chr  "Phase\\lesson begin" "speaking time\\teacher" "Phase\\tea

```

```

714 ## $ Anfang        : chr  "0:00:44,4" "0:00:44,4" "0:00:44,4" "0:01:20,8" ...

```

```

715 ## $ Ende          : chr  "0:00:44,6" "0:01:20,7" "0:01:20,7" "0:01:51,7" ...

```

```

716 ## $ Fläche        : chr  "00:00:00,1" "00:00:36,3" "00:00:36,3" "00:00:30,8" ...

```

```

717 ## $ Abdeckungsgrad...: num  0.03 5.15 5.15 4.37 0.04 0.96 0.62 0.02 0.04 0.16 ...

```

```

718 ##           Code Anfang  Ende Fläche Abdeckungsgrad..

```

```

719 ## [1,] FALSE  FALSE FALSE  FALSE      FALSE

```

```

720 ## [2,] FALSE  FALSE FALSE  FALSE      FALSE

```

```

721 ## [3,] FALSE  FALSE FALSE  FALSE      FALSE

```

```

722 ## [4,] FALSE  FALSE FALSE  FALSE      FALSE

```

```

723 ## [5,] FALSE  FALSE FALSE  FALSE      FALSE

```

```

724 ## [6,] FALSE  FALSE FALSE  FALSE      FALSE

```

```

725 ## [7,] FALSE  FALSE FALSE  FALSE      FALSE

```

```

726 ## [8,] FALSE  FALSE FALSE  FALSE      FALSE

```

```

727 ## [9,] FALSE  FALSE FALSE  FALSE      FALSE

```

728	##	[10,]	FALSE	FALSE	FALSE	FALSE	FALSE
729	##	[11,]	FALSE	FALSE	FALSE	FALSE	FALSE
730	##	[12,]	FALSE	FALSE	FALSE	FALSE	FALSE
731	##	[13,]	FALSE	FALSE	FALSE	FALSE	FALSE
732	##	[14,]	FALSE	FALSE	FALSE	FALSE	FALSE
733	##	[15,]	FALSE	FALSE	FALSE	FALSE	FALSE
734	##	[16,]	FALSE	FALSE	FALSE	FALSE	FALSE
735	##	[17,]	FALSE	FALSE	FALSE	FALSE	FALSE
736	##	[18,]	FALSE	FALSE	FALSE	FALSE	FALSE
737	##	[19,]	FALSE	FALSE	FALSE	FALSE	FALSE
738	##	[20,]	FALSE	FALSE	FALSE	FALSE	FALSE
739	##	[21,]	FALSE	FALSE	FALSE	FALSE	FALSE
740	##	[22,]	FALSE	FALSE	FALSE	FALSE	FALSE
741	##	[23,]	FALSE	FALSE	FALSE	FALSE	FALSE
742	##	[24,]	FALSE	FALSE	FALSE	FALSE	FALSE
743	##	[25,]	FALSE	FALSE	FALSE	FALSE	FALSE
744	##	[26,]	FALSE	FALSE	FALSE	FALSE	FALSE
745	##	[27,]	FALSE	FALSE	FALSE	FALSE	FALSE
746	##	[28,]	FALSE	FALSE	FALSE	FALSE	FALSE
747	##	[29,]	FALSE	FALSE	FALSE	FALSE	FALSE
748	##	[30,]	FALSE	FALSE	FALSE	FALSE	FALSE
749	##	[31,]	FALSE	FALSE	FALSE	FALSE	FALSE
750	##	[32,]	FALSE	FALSE	FALSE	FALSE	FALSE
751	##	[33,]	FALSE	FALSE	FALSE	FALSE	FALSE
752	##	[34,]	FALSE	FALSE	FALSE	FALSE	FALSE
753	##	[35,]	FALSE	FALSE	FALSE	FALSE	FALSE
754	##	[36,]	FALSE	FALSE	FALSE	FALSE	FALSE

755	##	[37,]	FALSE	FALSE	FALSE	FALSE	FALSE
756	##	[38,]	FALSE	FALSE	FALSE	FALSE	FALSE
757	##	[39,]	FALSE	FALSE	FALSE	FALSE	FALSE
758	##	[40,]	FALSE	FALSE	FALSE	FALSE	FALSE
759	##	[41,]	FALSE	FALSE	FALSE	FALSE	FALSE
760	##	[42,]	FALSE	FALSE	FALSE	FALSE	FALSE
761	##	[43,]	FALSE	FALSE	FALSE	FALSE	FALSE
762	##	[44,]	FALSE	FALSE	FALSE	FALSE	FALSE
763	##	[45,]	FALSE	FALSE	FALSE	FALSE	FALSE
764	##	[46,]	FALSE	FALSE	FALSE	FALSE	FALSE
765	##	[47,]	FALSE	FALSE	FALSE	FALSE	FALSE
766	##	[48,]	FALSE	FALSE	FALSE	FALSE	FALSE
767	##	[49,]	FALSE	FALSE	FALSE	FALSE	FALSE
768	##	[50,]	FALSE	FALSE	FALSE	FALSE	FALSE
769	##	[51,]	FALSE	FALSE	FALSE	FALSE	FALSE
770	##	[52,]	FALSE	FALSE	FALSE	FALSE	FALSE
771	##	[53,]	FALSE	FALSE	FALSE	FALSE	FALSE
772	##	[54,]	FALSE	FALSE	FALSE	FALSE	FALSE
773	##	[55,]	FALSE	FALSE	FALSE	FALSE	FALSE
774	##	[56,]	FALSE	FALSE	FALSE	FALSE	FALSE
775	##	[57,]	FALSE	FALSE	FALSE	FALSE	FALSE
776	##	[58,]	FALSE	FALSE	FALSE	FALSE	FALSE
777	##	[59,]	FALSE	FALSE	FALSE	FALSE	FALSE
778	##	[60,]	FALSE	FALSE	FALSE	FALSE	FALSE
779	##	[61,]	FALSE	FALSE	FALSE	FALSE	FALSE
780	##	[62,]	FALSE	FALSE	FALSE	FALSE	FALSE
781	##	[63,]	FALSE	FALSE	FALSE	FALSE	FALSE

782	##	[64,]	FALSE	FALSE	FALSE	FALSE	FALSE
783	##	[65,]	FALSE	FALSE	FALSE	FALSE	FALSE
784	##	[66,]	FALSE	FALSE	FALSE	FALSE	FALSE
785	##	[67,]	FALSE	FALSE	FALSE	FALSE	FALSE
786	##	[68,]	FALSE	FALSE	FALSE	FALSE	FALSE
787	##	[69,]	FALSE	FALSE	FALSE	FALSE	FALSE
788	##	[70,]	FALSE	FALSE	FALSE	FALSE	FALSE
789	##	[71,]	FALSE	FALSE	FALSE	FALSE	FALSE
790	##	[72,]	FALSE	FALSE	FALSE	FALSE	FALSE
791	##	[73,]	FALSE	FALSE	FALSE	FALSE	FALSE
792	##	[74,]	FALSE	FALSE	FALSE	FALSE	FALSE
793	##	[75,]	FALSE	FALSE	FALSE	FALSE	FALSE
794	##	[76,]	FALSE	FALSE	FALSE	FALSE	FALSE
795	##	[77,]	FALSE	FALSE	FALSE	FALSE	FALSE
796	##	[78,]	FALSE	FALSE	FALSE	FALSE	FALSE
797	##	[79,]	FALSE	FALSE	FALSE	FALSE	FALSE
798	##	[80,]	FALSE	FALSE	FALSE	FALSE	FALSE
799	##	[81,]	FALSE	FALSE	FALSE	FALSE	FALSE
800	##	[82,]	FALSE	FALSE	FALSE	FALSE	FALSE
801	##	[83,]	FALSE	FALSE	FALSE	FALSE	FALSE
802	##	[84,]	FALSE	FALSE	FALSE	FALSE	FALSE
803	##	[85,]	FALSE	FALSE	FALSE	FALSE	FALSE
804	##	[86,]	FALSE	FALSE	FALSE	FALSE	FALSE
805	##	[87,]	FALSE	FALSE	FALSE	FALSE	FALSE
806	##	[88,]	FALSE	FALSE	FALSE	FALSE	FALSE
807	##	[89,]	FALSE	FALSE	FALSE	FALSE	FALSE
808	##	[90,]	FALSE	FALSE	FALSE	FALSE	FALSE

809	##	[91,]	FALSE	FALSE	FALSE	FALSE	FALSE
810	##	[92,]	FALSE	FALSE	FALSE	FALSE	FALSE
811	##	[93,]	FALSE	FALSE	FALSE	FALSE	FALSE
812	##	[94,]	FALSE	FALSE	FALSE	FALSE	FALSE
813	##	[95,]	FALSE	FALSE	FALSE	FALSE	FALSE
814	##	[96,]	FALSE	FALSE	FALSE	FALSE	FALSE
815	##	[97,]	FALSE	FALSE	FALSE	FALSE	FALSE
816	##	[98,]	FALSE	FALSE	FALSE	FALSE	FALSE
817	##	[99,]	FALSE	FALSE	FALSE	FALSE	FALSE
818	##	[100,]	FALSE	FALSE	FALSE	FALSE	FALSE
819	##	[101,]	FALSE	FALSE	FALSE	FALSE	FALSE
820	##	[102,]	FALSE	FALSE	FALSE	FALSE	FALSE
821	##	[103,]	FALSE	FALSE	FALSE	FALSE	FALSE
822	##	[104,]	FALSE	FALSE	FALSE	FALSE	FALSE
823	##	[105,]	FALSE	FALSE	FALSE	FALSE	FALSE
824	##	[106,]	FALSE	FALSE	FALSE	FALSE	FALSE
825	##	[107,]	FALSE	FALSE	FALSE	FALSE	FALSE
826	##	[108,]	FALSE	FALSE	FALSE	FALSE	FALSE
827	##	[109,]	FALSE	FALSE	FALSE	FALSE	FALSE
828	##	[110,]	FALSE	FALSE	FALSE	FALSE	FALSE
829	##	[111,]	FALSE	FALSE	FALSE	FALSE	FALSE
830	##	[112,]	FALSE	FALSE	FALSE	FALSE	FALSE
831	##	[113,]	FALSE	FALSE	FALSE	FALSE	FALSE
832	##	[114,]	FALSE	FALSE	FALSE	FALSE	FALSE
833	##	[115,]	FALSE	FALSE	FALSE	FALSE	FALSE
834	##	[116,]	FALSE	FALSE	FALSE	FALSE	FALSE
835	##	[117,]	FALSE	FALSE	FALSE	FALSE	FALSE

836	##	[118,]	FALSE	FALSE	FALSE	FALSE	FALSE
837	##	[119,]	FALSE	FALSE	FALSE	FALSE	FALSE
838	##	[120,]	FALSE	FALSE	FALSE	FALSE	FALSE
839	##	[121,]	FALSE	FALSE	FALSE	FALSE	FALSE
840	##	[122,]	FALSE	FALSE	FALSE	FALSE	FALSE
841	##	[123,]	FALSE	FALSE	FALSE	FALSE	FALSE
842	##	[124,]	FALSE	FALSE	FALSE	FALSE	FALSE
843	##	[125,]	FALSE	FALSE	FALSE	FALSE	FALSE
844	##	[126,]	FALSE	FALSE	FALSE	FALSE	FALSE
845	##	[127,]	FALSE	FALSE	FALSE	FALSE	FALSE
846	##	[128,]	FALSE	FALSE	FALSE	FALSE	FALSE
847	##	[129,]	FALSE	FALSE	FALSE	FALSE	FALSE
848	##	[130,]	FALSE	FALSE	FALSE	FALSE	FALSE
849	##	[131,]	FALSE	FALSE	FALSE	FALSE	FALSE
850	##	[132,]	FALSE	FALSE	FALSE	FALSE	FALSE
851	##	[133,]	FALSE	FALSE	FALSE	FALSE	FALSE
852	##	[134,]	FALSE	FALSE	FALSE	FALSE	FALSE
853	##	[135,]	FALSE	FALSE	FALSE	FALSE	FALSE
854	##	[136,]	FALSE	FALSE	FALSE	FALSE	FALSE
855	##	[137,]	FALSE	FALSE	FALSE	FALSE	FALSE
856	##	[138,]	FALSE	FALSE	FALSE	FALSE	FALSE
857	##	[139,]	FALSE	FALSE	FALSE	FALSE	FALSE
858	##	[140,]	FALSE	FALSE	FALSE	FALSE	FALSE
859	##	[141,]	FALSE	FALSE	FALSE	FALSE	FALSE
860	##	[142,]	FALSE	FALSE	FALSE	FALSE	FALSE
861	##	[143,]	FALSE	FALSE	FALSE	FALSE	FALSE
862	##	[144,]	FALSE	FALSE	FALSE	FALSE	FALSE

863	##	[145,]	FALSE	FALSE	FALSE	FALSE	FALSE
864	##	[146,]	FALSE	FALSE	FALSE	FALSE	FALSE
865	##	[147,]	FALSE	FALSE	FALSE	FALSE	FALSE
866	##	[148,]	FALSE	FALSE	FALSE	FALSE	FALSE
867	##	[149,]	FALSE	FALSE	FALSE	FALSE	FALSE
868	##	[150,]	FALSE	FALSE	FALSE	FALSE	FALSE
869	##	[151,]	FALSE	FALSE	FALSE	FALSE	FALSE
870	##	[152,]	FALSE	FALSE	FALSE	FALSE	FALSE
871	##	[153,]	FALSE	FALSE	FALSE	FALSE	FALSE
872	##	[154,]	FALSE	FALSE	FALSE	FALSE	FALSE
873	##	[155,]	FALSE	FALSE	FALSE	FALSE	FALSE
874	##	[156,]	FALSE	FALSE	FALSE	FALSE	FALSE
875	##	[157,]	FALSE	FALSE	FALSE	FALSE	FALSE
876	##	[158,]	FALSE	FALSE	FALSE	FALSE	FALSE
877	##	[159,]	FALSE	FALSE	FALSE	FALSE	FALSE
878	##	[160,]	FALSE	FALSE	FALSE	FALSE	FALSE
879	##	[161,]	FALSE	FALSE	FALSE	FALSE	FALSE
880	##	[162,]	FALSE	FALSE	FALSE	FALSE	FALSE
881	##	[163,]	FALSE	FALSE	FALSE	FALSE	FALSE
882	##	[164,]	FALSE	FALSE	FALSE	FALSE	FALSE
883	##	[165,]	FALSE	FALSE	FALSE	FALSE	FALSE
884	##	[166,]	FALSE	FALSE	FALSE	FALSE	FALSE
885	##	[167,]	FALSE	FALSE	FALSE	FALSE	FALSE
886	##	[168,]	FALSE	FALSE	FALSE	FALSE	FALSE
887	##	[169,]	FALSE	FALSE	FALSE	FALSE	FALSE
888	##	[170,]	FALSE	FALSE	FALSE	FALSE	FALSE
889	##	[171,]	FALSE	FALSE	FALSE	FALSE	FALSE

```

890 ## [172,] FALSE FALSE FALSE FALSE FALSE
891 ## [173,] FALSE FALSE FALSE FALSE FALSE
892 ## [174,] FALSE FALSE FALSE FALSE FALSE
893 ## [175,] FALSE FALSE FALSE FALSE FALSE
894 ## [176,] FALSE FALSE FALSE FALSE FALSE
895 ## [177,] FALSE FALSE FALSE FALSE FALSE
896 ## [178,] FALSE FALSE FALSE FALSE FALSE
897 ## [179,] FALSE FALSE FALSE FALSE FALSE

898 ## integer(0)

899 ## 'data.frame': 190 obs. of 5 variables:
900 ## $ Code : chr "Phase\\lesson begin" "speaking time\\teacher" "speaking t
901 ## $ Anfang : chr "0:00:56,9" "0:00:56,9" "0:01:00,7" "0:01:01,8" ...
902 ## $ Ende : chr "0:00:57,6" "0:01:01,0" "0:01:03,0" "0:01:03,0" ...
903 ## $ Fläche : chr "00:00:00,6" "00:00:04,0" "00:00:02,3" "00:00:01,1" ...
904 ## $ Abdeckungsgrad...: num 0.09 0.59 0.34 0.17 0.24 0.24 0.1 5.54 0.07 3.39 ...

905 ## Code Anfang Ende Fläche Abdeckungsgrad..
906 ## [1,] FALSE FALSE FALSE FALSE FALSE
907 ## [2,] FALSE FALSE FALSE FALSE FALSE
908 ## [3,] FALSE FALSE FALSE FALSE FALSE
909 ## [4,] FALSE FALSE FALSE FALSE FALSE
910 ## [5,] FALSE FALSE FALSE FALSE FALSE
911 ## [6,] FALSE FALSE FALSE FALSE FALSE
912 ## [7,] FALSE FALSE FALSE FALSE FALSE
913 ## [8,] FALSE FALSE FALSE FALSE FALSE
914 ## [9,] FALSE FALSE FALSE FALSE FALSE

```

915	##	[10,]	FALSE	FALSE	FALSE	FALSE	FALSE
916	##	[11,]	FALSE	FALSE	FALSE	FALSE	FALSE
917	##	[12,]	FALSE	FALSE	FALSE	FALSE	FALSE
918	##	[13,]	FALSE	FALSE	FALSE	FALSE	FALSE
919	##	[14,]	FALSE	FALSE	FALSE	FALSE	FALSE
920	##	[15,]	FALSE	FALSE	FALSE	FALSE	FALSE
921	##	[16,]	FALSE	FALSE	FALSE	FALSE	FALSE
922	##	[17,]	FALSE	FALSE	FALSE	FALSE	FALSE
923	##	[18,]	FALSE	FALSE	FALSE	FALSE	FALSE
924	##	[19,]	FALSE	FALSE	FALSE	FALSE	FALSE
925	##	[20,]	FALSE	FALSE	FALSE	FALSE	FALSE
926	##	[21,]	FALSE	FALSE	FALSE	FALSE	FALSE
927	##	[22,]	FALSE	FALSE	FALSE	FALSE	FALSE
928	##	[23,]	FALSE	FALSE	FALSE	FALSE	FALSE
929	##	[24,]	FALSE	FALSE	FALSE	FALSE	FALSE
930	##	[25,]	FALSE	FALSE	FALSE	FALSE	FALSE
931	##	[26,]	FALSE	FALSE	FALSE	FALSE	FALSE
932	##	[27,]	FALSE	FALSE	FALSE	FALSE	FALSE
933	##	[28,]	FALSE	FALSE	FALSE	FALSE	FALSE
934	##	[29,]	FALSE	FALSE	FALSE	FALSE	FALSE
935	##	[30,]	FALSE	FALSE	FALSE	FALSE	FALSE
936	##	[31,]	FALSE	FALSE	FALSE	FALSE	FALSE
937	##	[32,]	FALSE	FALSE	FALSE	FALSE	FALSE
938	##	[33,]	FALSE	FALSE	FALSE	FALSE	FALSE
939	##	[34,]	FALSE	FALSE	FALSE	FALSE	FALSE
940	##	[35,]	FALSE	FALSE	FALSE	FALSE	FALSE
941	##	[36,]	FALSE	FALSE	FALSE	FALSE	FALSE

942	##	[37,]	FALSE	FALSE	FALSE	FALSE	FALSE
943	##	[38,]	FALSE	FALSE	FALSE	FALSE	FALSE
944	##	[39,]	FALSE	FALSE	FALSE	FALSE	FALSE
945	##	[40,]	FALSE	FALSE	FALSE	FALSE	FALSE
946	##	[41,]	FALSE	FALSE	FALSE	FALSE	FALSE
947	##	[42,]	FALSE	FALSE	FALSE	FALSE	FALSE
948	##	[43,]	FALSE	FALSE	FALSE	FALSE	FALSE
949	##	[44,]	FALSE	FALSE	FALSE	FALSE	FALSE
950	##	[45,]	FALSE	FALSE	FALSE	FALSE	FALSE
951	##	[46,]	FALSE	FALSE	FALSE	FALSE	FALSE
952	##	[47,]	FALSE	FALSE	FALSE	FALSE	FALSE
953	##	[48,]	FALSE	FALSE	FALSE	FALSE	FALSE
954	##	[49,]	FALSE	FALSE	FALSE	FALSE	FALSE
955	##	[50,]	FALSE	FALSE	FALSE	FALSE	FALSE
956	##	[51,]	FALSE	FALSE	FALSE	FALSE	FALSE
957	##	[52,]	FALSE	FALSE	FALSE	FALSE	FALSE
958	##	[53,]	FALSE	FALSE	FALSE	FALSE	FALSE
959	##	[54,]	FALSE	FALSE	FALSE	FALSE	FALSE
960	##	[55,]	FALSE	FALSE	FALSE	FALSE	FALSE
961	##	[56,]	FALSE	FALSE	FALSE	FALSE	FALSE
962	##	[57,]	FALSE	FALSE	FALSE	FALSE	FALSE
963	##	[58,]	FALSE	FALSE	FALSE	FALSE	FALSE
964	##	[59,]	FALSE	FALSE	FALSE	FALSE	FALSE
965	##	[60,]	FALSE	FALSE	FALSE	FALSE	FALSE
966	##	[61,]	FALSE	FALSE	FALSE	FALSE	FALSE
967	##	[62,]	FALSE	FALSE	FALSE	FALSE	FALSE
968	##	[63,]	FALSE	FALSE	FALSE	FALSE	FALSE

969	##	[64,]	FALSE	FALSE	FALSE	FALSE	FALSE
970	##	[65,]	FALSE	FALSE	FALSE	FALSE	FALSE
971	##	[66,]	FALSE	FALSE	FALSE	FALSE	FALSE
972	##	[67,]	FALSE	FALSE	FALSE	FALSE	FALSE
973	##	[68,]	FALSE	FALSE	FALSE	FALSE	FALSE
974	##	[69,]	FALSE	FALSE	FALSE	FALSE	FALSE
975	##	[70,]	FALSE	FALSE	FALSE	FALSE	FALSE
976	##	[71,]	FALSE	FALSE	FALSE	FALSE	FALSE
977	##	[72,]	FALSE	FALSE	FALSE	FALSE	FALSE
978	##	[73,]	FALSE	FALSE	FALSE	FALSE	FALSE
979	##	[74,]	FALSE	FALSE	FALSE	FALSE	FALSE
980	##	[75,]	FALSE	FALSE	FALSE	FALSE	FALSE
981	##	[76,]	FALSE	FALSE	FALSE	FALSE	FALSE
982	##	[77,]	FALSE	FALSE	FALSE	FALSE	FALSE
983	##	[78,]	FALSE	FALSE	FALSE	FALSE	FALSE
984	##	[79,]	FALSE	FALSE	FALSE	FALSE	FALSE
985	##	[80,]	FALSE	FALSE	FALSE	FALSE	FALSE
986	##	[81,]	FALSE	FALSE	FALSE	FALSE	FALSE
987	##	[82,]	FALSE	FALSE	FALSE	FALSE	FALSE
988	##	[83,]	FALSE	FALSE	FALSE	FALSE	FALSE
989	##	[84,]	FALSE	FALSE	FALSE	FALSE	FALSE
990	##	[85,]	FALSE	FALSE	FALSE	FALSE	FALSE
991	##	[86,]	FALSE	FALSE	FALSE	FALSE	FALSE
992	##	[87,]	FALSE	FALSE	FALSE	FALSE	FALSE
993	##	[88,]	FALSE	FALSE	FALSE	FALSE	FALSE
994	##	[89,]	FALSE	FALSE	FALSE	FALSE	FALSE
995	##	[90,]	FALSE	FALSE	FALSE	FALSE	FALSE

996	##	[91,]	FALSE	FALSE	FALSE	FALSE	FALSE
997	##	[92,]	FALSE	FALSE	FALSE	FALSE	FALSE
998	##	[93,]	FALSE	FALSE	FALSE	FALSE	FALSE
999	##	[94,]	FALSE	FALSE	FALSE	FALSE	FALSE
1000	##	[95,]	FALSE	FALSE	FALSE	FALSE	FALSE
1001	##	[96,]	FALSE	FALSE	FALSE	FALSE	FALSE
1002	##	[97,]	FALSE	FALSE	FALSE	FALSE	FALSE
1003	##	[98,]	FALSE	FALSE	FALSE	FALSE	FALSE
1004	##	[99,]	FALSE	FALSE	FALSE	FALSE	FALSE
1005	##	[100,]	FALSE	FALSE	FALSE	FALSE	FALSE
1006	##	[101,]	FALSE	FALSE	FALSE	FALSE	FALSE
1007	##	[102,]	FALSE	FALSE	FALSE	FALSE	FALSE
1008	##	[103,]	FALSE	FALSE	FALSE	FALSE	FALSE
1009	##	[104,]	FALSE	FALSE	FALSE	FALSE	FALSE
1010	##	[105,]	FALSE	FALSE	FALSE	FALSE	FALSE
1011	##	[106,]	FALSE	FALSE	FALSE	FALSE	FALSE
1012	##	[107,]	FALSE	FALSE	FALSE	FALSE	FALSE
1013	##	[108,]	FALSE	FALSE	FALSE	FALSE	FALSE
1014	##	[109,]	FALSE	FALSE	FALSE	FALSE	FALSE
1015	##	[110,]	FALSE	FALSE	FALSE	FALSE	FALSE
1016	##	[111,]	FALSE	FALSE	FALSE	FALSE	FALSE
1017	##	[112,]	FALSE	FALSE	FALSE	FALSE	FALSE
1018	##	[113,]	FALSE	FALSE	FALSE	FALSE	FALSE
1019	##	[114,]	FALSE	FALSE	FALSE	FALSE	FALSE
1020	##	[115,]	FALSE	FALSE	FALSE	FALSE	FALSE
1021	##	[116,]	FALSE	FALSE	FALSE	FALSE	FALSE
1022	##	[117,]	FALSE	FALSE	FALSE	FALSE	FALSE

1023	##	[118,]	FALSE	FALSE	FALSE	FALSE	FALSE
1024	##	[119,]	FALSE	FALSE	FALSE	FALSE	FALSE
1025	##	[120,]	FALSE	FALSE	FALSE	FALSE	FALSE
1026	##	[121,]	FALSE	FALSE	FALSE	FALSE	FALSE
1027	##	[122,]	FALSE	FALSE	FALSE	FALSE	FALSE
1028	##	[123,]	FALSE	FALSE	FALSE	FALSE	FALSE
1029	##	[124,]	FALSE	FALSE	FALSE	FALSE	FALSE
1030	##	[125,]	FALSE	FALSE	FALSE	FALSE	FALSE
1031	##	[126,]	FALSE	FALSE	FALSE	FALSE	FALSE
1032	##	[127,]	FALSE	FALSE	FALSE	FALSE	FALSE
1033	##	[128,]	FALSE	FALSE	FALSE	FALSE	FALSE
1034	##	[129,]	FALSE	FALSE	FALSE	FALSE	FALSE
1035	##	[130,]	FALSE	FALSE	FALSE	FALSE	FALSE
1036	##	[131,]	FALSE	FALSE	FALSE	FALSE	FALSE
1037	##	[132,]	FALSE	FALSE	FALSE	FALSE	FALSE
1038	##	[133,]	FALSE	FALSE	FALSE	FALSE	FALSE
1039	##	[134,]	FALSE	FALSE	FALSE	FALSE	FALSE
1040	##	[135,]	FALSE	FALSE	FALSE	FALSE	FALSE
1041	##	[136,]	FALSE	FALSE	FALSE	FALSE	FALSE
1042	##	[137,]	FALSE	FALSE	FALSE	FALSE	FALSE
1043	##	[138,]	FALSE	FALSE	FALSE	FALSE	FALSE
1044	##	[139,]	FALSE	FALSE	FALSE	FALSE	FALSE
1045	##	[140,]	FALSE	FALSE	FALSE	FALSE	FALSE
1046	##	[141,]	FALSE	FALSE	FALSE	FALSE	FALSE
1047	##	[142,]	FALSE	FALSE	FALSE	FALSE	FALSE
1048	##	[143,]	FALSE	FALSE	FALSE	FALSE	FALSE
1049	##	[144,]	FALSE	FALSE	FALSE	FALSE	FALSE

1050	##	[145,]	FALSE	FALSE	FALSE	FALSE	FALSE
1051	##	[146,]	FALSE	FALSE	FALSE	FALSE	FALSE
1052	##	[147,]	FALSE	FALSE	FALSE	FALSE	FALSE
1053	##	[148,]	FALSE	FALSE	FALSE	FALSE	FALSE
1054	##	[149,]	FALSE	FALSE	FALSE	FALSE	FALSE
1055	##	[150,]	FALSE	FALSE	FALSE	FALSE	FALSE
1056	##	[151,]	FALSE	FALSE	FALSE	FALSE	FALSE
1057	##	[152,]	FALSE	FALSE	FALSE	FALSE	FALSE
1058	##	[153,]	FALSE	FALSE	FALSE	FALSE	FALSE
1059	##	[154,]	FALSE	FALSE	FALSE	FALSE	FALSE
1060	##	[155,]	FALSE	FALSE	FALSE	FALSE	FALSE
1061	##	[156,]	FALSE	FALSE	FALSE	FALSE	FALSE
1062	##	[157,]	FALSE	FALSE	FALSE	FALSE	FALSE
1063	##	[158,]	FALSE	FALSE	FALSE	FALSE	FALSE
1064	##	[159,]	FALSE	FALSE	FALSE	FALSE	FALSE
1065	##	[160,]	FALSE	FALSE	FALSE	FALSE	FALSE
1066	##	[161,]	FALSE	FALSE	FALSE	FALSE	FALSE
1067	##	[162,]	FALSE	FALSE	FALSE	FALSE	FALSE
1068	##	[163,]	FALSE	FALSE	FALSE	FALSE	FALSE
1069	##	[164,]	FALSE	FALSE	FALSE	FALSE	FALSE
1070	##	[165,]	FALSE	FALSE	FALSE	FALSE	FALSE
1071	##	[166,]	FALSE	FALSE	FALSE	FALSE	FALSE
1072	##	[167,]	FALSE	FALSE	FALSE	FALSE	FALSE
1073	##	[168,]	FALSE	FALSE	FALSE	FALSE	FALSE
1074	##	[169,]	FALSE	FALSE	FALSE	FALSE	FALSE
1075	##	[170,]	FALSE	FALSE	FALSE	FALSE	FALSE
1076	##	[171,]	FALSE	FALSE	FALSE	FALSE	FALSE

```

1077 ## [172,] FALSE FALSE FALSE FALSE FALSE
1078 ## [173,] FALSE FALSE FALSE FALSE FALSE
1079 ## [174,] FALSE FALSE FALSE FALSE FALSE
1080 ## [175,] FALSE FALSE FALSE FALSE FALSE
1081 ## [176,] FALSE FALSE FALSE FALSE FALSE
1082 ## [177,] FALSE FALSE FALSE FALSE FALSE
1083 ## [178,] FALSE FALSE FALSE FALSE FALSE
1084 ## [179,] FALSE FALSE FALSE FALSE FALSE
1085 ## [180,] FALSE FALSE FALSE FALSE FALSE
1086 ## [181,] FALSE FALSE FALSE FALSE FALSE
1087 ## [182,] FALSE FALSE FALSE FALSE FALSE
1088 ## [183,] FALSE FALSE FALSE FALSE FALSE
1089 ## [184,] FALSE FALSE FALSE FALSE FALSE
1090 ## [185,] FALSE FALSE FALSE FALSE FALSE
1091 ## [186,] FALSE FALSE FALSE FALSE FALSE
1092 ## [187,] FALSE FALSE FALSE FALSE FALSE
1093 ## [188,] FALSE FALSE FALSE FALSE FALSE
1094 ## [189,] FALSE FALSE FALSE FALSE FALSE
1095 ## [190,] FALSE FALSE FALSE FALSE FALSE

```

```

1096 ## integer(0)

```

```

1097 ## 'data.frame': 125 obs. of 5 variables:

```

```

1098 ## $ Code : chr "Phase\\lesson begin" "speaking time\\teacher" "speaking ti
1099 ## $ Anfang : chr "0:00:41,5" "0:00:41,8" "0:00:42,3" "0:00:45,9" ...
1100 ## $ Ende : chr "0:00:41,7" "0:00:42,3" "0:00:44,7" "0:00:47,6" ...
1101 ## $ Fläche : chr "00:00:00,2" "00:00:00,5" "00:00:02,3" "00:00:01,6" ...
1102 ## $ Abdeckungsgrad... : num 0.03 0.07 0.32 0.23 0.41 2.17 0.47 0.11 0.27 4.01 ...

```

1103	##	Code	Anfang	Ende	Fläche	Abdeckungsgrad..
1104	##	[1,]	FALSE	FALSE	FALSE	FALSE
1105	##	[2,]	FALSE	FALSE	FALSE	FALSE
1106	##	[3,]	FALSE	FALSE	FALSE	FALSE
1107	##	[4,]	FALSE	FALSE	FALSE	FALSE
1108	##	[5,]	FALSE	FALSE	FALSE	FALSE
1109	##	[6,]	FALSE	FALSE	FALSE	FALSE
1110	##	[7,]	FALSE	FALSE	FALSE	FALSE
1111	##	[8,]	FALSE	FALSE	FALSE	FALSE
1112	##	[9,]	FALSE	FALSE	FALSE	FALSE
1113	##	[10,]	FALSE	FALSE	FALSE	FALSE
1114	##	[11,]	FALSE	FALSE	FALSE	FALSE
1115	##	[12,]	FALSE	FALSE	FALSE	FALSE
1116	##	[13,]	FALSE	FALSE	FALSE	FALSE
1117	##	[14,]	FALSE	FALSE	FALSE	FALSE
1118	##	[15,]	FALSE	FALSE	FALSE	FALSE
1119	##	[16,]	FALSE	FALSE	FALSE	FALSE
1120	##	[17,]	FALSE	FALSE	FALSE	FALSE
1121	##	[18,]	FALSE	FALSE	FALSE	FALSE
1122	##	[19,]	FALSE	FALSE	FALSE	FALSE
1123	##	[20,]	FALSE	FALSE	FALSE	FALSE
1124	##	[21,]	FALSE	FALSE	FALSE	FALSE
1125	##	[22,]	FALSE	FALSE	FALSE	FALSE
1126	##	[23,]	FALSE	FALSE	FALSE	FALSE
1127	##	[24,]	FALSE	FALSE	FALSE	FALSE
1128	##	[25,]	FALSE	FALSE	FALSE	FALSE
1129	##	[26,]	FALSE	FALSE	FALSE	FALSE

1130	##	[27,]	FALSE	FALSE	FALSE	FALSE	FALSE
1131	##	[28,]	FALSE	FALSE	FALSE	FALSE	FALSE
1132	##	[29,]	FALSE	FALSE	FALSE	FALSE	FALSE
1133	##	[30,]	FALSE	FALSE	FALSE	FALSE	FALSE
1134	##	[31,]	FALSE	FALSE	FALSE	FALSE	FALSE
1135	##	[32,]	FALSE	FALSE	FALSE	FALSE	FALSE
1136	##	[33,]	FALSE	FALSE	FALSE	FALSE	FALSE
1137	##	[34,]	FALSE	FALSE	FALSE	FALSE	FALSE
1138	##	[35,]	FALSE	FALSE	FALSE	FALSE	FALSE
1139	##	[36,]	FALSE	FALSE	FALSE	FALSE	FALSE
1140	##	[37,]	FALSE	FALSE	FALSE	FALSE	FALSE
1141	##	[38,]	FALSE	FALSE	FALSE	FALSE	FALSE
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```

1229 ## integer(0)

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```

1230 ## 'data.frame': 425 obs. of 6 variables:

```

```

1231 ## $ Dokumentgruppe : chr "kodiert von Anna" "kodiert von Anna" "kodiert von Anna" "k

```

```

1232 ## $ Code : chr "Phase\\lesson begin" "speaking time\\teacher" "speaking ti

```

```

1233 ## $ Anfang : chr "0:00:10,8" "0:00:10,9" "0:00:15,7" "0:00:19,2" ...

```

```

1234 ## $ Ende : chr "0:00:11,1" "0:00:14,8" "0:00:19,0" "0:00:20,7" ...

```

```

1235 ## $ Fläche : chr "00:00:00,2" "00:00:03,8" "00:00:03,3" "00:00:01,5" ...

```

```

1236 ## $ Abdeckungsgrad... : num 0.03 0.56 0.49 0.22 1.45 1.74 2.59 2.82 0.09 0.04 ...

```

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1245	##	[8,]	FALSE	FALSE	FALSE	FALSE	FALSE
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1663 ## integer(0)

1664 ## 'data.frame':   335 obs. of  6 variables:
1665 ## $ Dokumentgruppe : chr  "02_03_kodiert von Mandy" "02_03_kodiert von Mandy" "02_03_
1666 ## $ Code            : chr  "Phase\\lesson begin" "speaking time\\teacher" "Phase\\tea
1667 ## $ Anfang          : chr  "0:00:14,7" "0:00:15,0" "0:00:22,0" "0:00:22,1" ...

```

```

1668 ## $ Ende          : chr  "0:00:15,0" "0:00:20,7" "0:00:55,2" "0:00:28,0" ...
1669 ## $ Fläche          : chr  "00:00:00,3" "00:00:05,7" "00:00:33,2" "00:00:05,8" ...
1670 ## $ Abdeckungsgrad..: num  0.04 0.84 4.89 0.86 3.71 ...

```

	##	Dokumentgruppe	Code	Anfang	Ende	Fläche	Abdeckungsgrad..
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1679	##	[8,]	FALSE	FALSE	FALSE	FALSE	FALSE
1680	##	[9,]	FALSE	FALSE	FALSE	FALSE	FALSE
1681	##	[10,]	FALSE	FALSE	FALSE	FALSE	FALSE
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1686	##	[15,]	FALSE	FALSE	FALSE	FALSE	FALSE
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1689	##	[18,]	FALSE	FALSE	FALSE	FALSE	FALSE
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1691	##	[20,]	FALSE	FALSE	FALSE	FALSE	FALSE
1692	##	[21,]	FALSE	FALSE	FALSE	FALSE	FALSE
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1917	##	[246,]	FALSE	FALSE	FALSE	FALSE	FALSE
1918	##	[247,]	FALSE	FALSE	FALSE	FALSE	FALSE
1919	##	[248,]	FALSE	FALSE	FALSE	FALSE	FALSE
1920	##	[249,]	FALSE	FALSE	FALSE	FALSE	FALSE
1921	##	[250,]	FALSE	FALSE	FALSE	FALSE	FALSE
1922	##	[251,]	FALSE	FALSE	FALSE	FALSE	FALSE
1923	##	[252,]	FALSE	FALSE	FALSE	FALSE	FALSE
1924	##	[253,]	FALSE	FALSE	FALSE	FALSE	FALSE
1925	##	[254,]	FALSE	FALSE	FALSE	FALSE	FALSE
1926	##	[255,]	FALSE	FALSE	FALSE	FALSE	FALSE
1927	##	[256,]	FALSE	FALSE	FALSE	FALSE	FALSE
1928	##	[257,]	FALSE	FALSE	FALSE	FALSE	FALSE
1929	##	[258,]	FALSE	FALSE	FALSE	FALSE	FALSE
1930	##	[259,]	FALSE	FALSE	FALSE	FALSE	FALSE
1931	##	[260,]	FALSE	FALSE	FALSE	FALSE	FALSE
1932	##	[261,]	FALSE	FALSE	FALSE	FALSE	FALSE
1933	##	[262,]	FALSE	FALSE	FALSE	FALSE	FALSE
1934	##	[263,]	FALSE	FALSE	FALSE	FALSE	FALSE
1935	##	[264,]	FALSE	FALSE	FALSE	FALSE	FALSE
1936	##	[265,]	FALSE	FALSE	FALSE	FALSE	FALSE
1937	##	[266,]	FALSE	FALSE	FALSE	FALSE	FALSE

1938	##	[267,]	FALSE	FALSE	FALSE	FALSE	FALSE
1939	##	[268,]	FALSE	FALSE	FALSE	FALSE	FALSE
1940	##	[269,]	FALSE	FALSE	FALSE	FALSE	FALSE
1941	##	[270,]	FALSE	FALSE	FALSE	FALSE	FALSE
1942	##	[271,]	FALSE	FALSE	FALSE	FALSE	FALSE
1943	##	[272,]	FALSE	FALSE	FALSE	FALSE	FALSE
1944	##	[273,]	FALSE	FALSE	FALSE	FALSE	FALSE
1945	##	[274,]	FALSE	FALSE	FALSE	FALSE	FALSE
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1947	##	[276,]	FALSE	FALSE	FALSE	FALSE	FALSE
1948	##	[277,]	FALSE	FALSE	FALSE	FALSE	FALSE
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1961	##	[290,]	FALSE	FALSE	FALSE	FALSE	FALSE
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1963	##	[292,]	FALSE	FALSE	FALSE	FALSE	FALSE
1964	##	[293,]	FALSE	FALSE	FALSE	FALSE	FALSE

1965	##	[294,]	FALSE	FALSE	FALSE	FALSE	FALSE
1966	##	[295,]	FALSE	FALSE	FALSE	FALSE	FALSE
1967	##	[296,]	FALSE	FALSE	FALSE	FALSE	FALSE
1968	##	[297,]	FALSE	FALSE	FALSE	FALSE	FALSE
1969	##	[298,]	FALSE	FALSE	FALSE	FALSE	FALSE
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1971	##	[300,]	FALSE	FALSE	FALSE	FALSE	FALSE
1972	##	[301,]	FALSE	FALSE	FALSE	FALSE	FALSE
1973	##	[302,]	FALSE	FALSE	FALSE	FALSE	FALSE
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1980	##	[309,]	FALSE	FALSE	FALSE	FALSE	FALSE
1981	##	[310,]	FALSE	FALSE	FALSE	FALSE	FALSE
1982	##	[311,]	FALSE	FALSE	FALSE	FALSE	FALSE
1983	##	[312,]	FALSE	FALSE	FALSE	FALSE	FALSE
1984	##	[313,]	FALSE	FALSE	FALSE	FALSE	FALSE
1985	##	[314,]	FALSE	FALSE	FALSE	FALSE	FALSE
1986	##	[315,]	FALSE	FALSE	FALSE	FALSE	FALSE
1987	##	[316,]	FALSE	FALSE	FALSE	FALSE	FALSE
1988	##	[317,]	FALSE	FALSE	FALSE	FALSE	FALSE
1989	##	[318,]	FALSE	FALSE	FALSE	FALSE	FALSE
1990	##	[319,]	FALSE	FALSE	FALSE	FALSE	FALSE
1991	##	[320,]	FALSE	FALSE	FALSE	FALSE	FALSE

```

1992 ## [321,]          FALSE FALSE  FALSE FALSE  FALSE          FALSE
1993 ## [322,]          FALSE FALSE  FALSE FALSE  FALSE          FALSE
1994 ## [323,]          FALSE FALSE  FALSE FALSE  FALSE          FALSE
1995 ## [324,]          FALSE FALSE  FALSE FALSE  FALSE          FALSE
1996 ## [325,]          FALSE FALSE  FALSE FALSE  FALSE          FALSE
1997 ## [326,]          FALSE FALSE  FALSE FALSE  FALSE          FALSE
1998 ## [327,]          FALSE FALSE  FALSE FALSE  FALSE          FALSE
1999 ## [328,]          FALSE FALSE  FALSE FALSE  FALSE          FALSE
2000 ## [329,]          FALSE FALSE  FALSE FALSE  FALSE          FALSE
2001 ## [330,]          FALSE FALSE  FALSE FALSE  FALSE          FALSE
2002 ## [331,]          FALSE FALSE  FALSE FALSE  FALSE          FALSE
2003 ## [332,]          FALSE FALSE  FALSE FALSE  FALSE          FALSE
2004 ## [333,]          FALSE FALSE  FALSE FALSE  FALSE          FALSE
2005 ## [334,]          FALSE FALSE  FALSE FALSE  FALSE          FALSE
2006 ## [335,]          FALSE FALSE  FALSE FALSE  FALSE          FALSE

2007 ## integer(0)

2008 ## 'data.frame':   271 obs. of  5 variables:
2009 ## $ Code           : chr  "Phase\\lesson begin" "speaking time\\teacher" "speaking t
2010 ## $ Anfang          : chr  "0:00:17,1" "0:00:17,1" "0:00:21,6" "0:00:24,6" ...
2011 ## $ Ende            : chr  "0:00:17,4" "0:00:19,9" "0:00:22,8" "0:00:25,5" ...
2012 ## $ Fläche          : chr  "00:00:00,2" "00:00:02,7" "00:00:01,1" "00:00:00,8" ...
2013 ## $ Abdeckungsgrad...: num  0.04 0.39 0.16 0.12 0.37 0.47 2.05 2.3 0.13 0.14 ...

2014 ##           Code Anfang  Ende Fläche Abdeckungsgrad..
2015 ## [1,] FALSE  FALSE FALSE  FALSE          FALSE
2016 ## [2,] FALSE  FALSE FALSE  FALSE          FALSE

```

2017	##	[3,]	FALSE	FALSE	FALSE	FALSE	FALSE
2018	##	[4,]	FALSE	FALSE	FALSE	FALSE	FALSE
2019	##	[5,]	FALSE	FALSE	FALSE	FALSE	FALSE
2020	##	[6,]	FALSE	FALSE	FALSE	FALSE	FALSE
2021	##	[7,]	FALSE	FALSE	FALSE	FALSE	FALSE
2022	##	[8,]	FALSE	FALSE	FALSE	FALSE	FALSE
2023	##	[9,]	FALSE	FALSE	FALSE	FALSE	FALSE
2024	##	[10,]	FALSE	FALSE	FALSE	FALSE	FALSE
2025	##	[11,]	FALSE	FALSE	FALSE	FALSE	FALSE
2026	##	[12,]	FALSE	FALSE	FALSE	FALSE	FALSE
2027	##	[13,]	FALSE	FALSE	FALSE	FALSE	FALSE
2028	##	[14,]	FALSE	FALSE	FALSE	FALSE	FALSE
2029	##	[15,]	FALSE	FALSE	FALSE	FALSE	FALSE
2030	##	[16,]	FALSE	FALSE	FALSE	FALSE	FALSE
2031	##	[17,]	FALSE	FALSE	FALSE	FALSE	FALSE
2032	##	[18,]	FALSE	FALSE	FALSE	FALSE	FALSE
2033	##	[19,]	FALSE	FALSE	FALSE	FALSE	FALSE
2034	##	[20,]	FALSE	FALSE	FALSE	FALSE	FALSE
2035	##	[21,]	FALSE	FALSE	FALSE	FALSE	FALSE
2036	##	[22,]	FALSE	FALSE	FALSE	FALSE	FALSE
2037	##	[23,]	FALSE	FALSE	FALSE	FALSE	FALSE
2038	##	[24,]	FALSE	FALSE	FALSE	FALSE	FALSE
2039	##	[25,]	FALSE	FALSE	FALSE	FALSE	FALSE
2040	##	[26,]	FALSE	FALSE	FALSE	FALSE	FALSE
2041	##	[27,]	FALSE	FALSE	FALSE	FALSE	FALSE
2042	##	[28,]	FALSE	FALSE	FALSE	FALSE	FALSE
2043	##	[29,]	FALSE	FALSE	FALSE	FALSE	FALSE

2044	##	[30,]	FALSE	FALSE	FALSE	FALSE	FALSE
2045	##	[31,]	FALSE	FALSE	FALSE	FALSE	FALSE
2046	##	[32,]	FALSE	FALSE	FALSE	FALSE	FALSE
2047	##	[33,]	FALSE	FALSE	FALSE	FALSE	FALSE
2048	##	[34,]	FALSE	FALSE	FALSE	FALSE	FALSE
2049	##	[35,]	FALSE	FALSE	FALSE	FALSE	FALSE
2050	##	[36,]	FALSE	FALSE	FALSE	FALSE	FALSE
2051	##	[37,]	FALSE	FALSE	FALSE	FALSE	FALSE
2052	##	[38,]	FALSE	FALSE	FALSE	FALSE	FALSE
2053	##	[39,]	FALSE	FALSE	FALSE	FALSE	FALSE
2054	##	[40,]	FALSE	FALSE	FALSE	FALSE	FALSE
2055	##	[41,]	FALSE	FALSE	FALSE	FALSE	FALSE
2056	##	[42,]	FALSE	FALSE	FALSE	FALSE	FALSE
2057	##	[43,]	FALSE	FALSE	FALSE	FALSE	FALSE
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2060	##	[46,]	FALSE	FALSE	FALSE	FALSE	FALSE
2061	##	[47,]	FALSE	FALSE	FALSE	FALSE	FALSE
2062	##	[48,]	FALSE	FALSE	FALSE	FALSE	FALSE
2063	##	[49,]	FALSE	FALSE	FALSE	FALSE	FALSE
2064	##	[50,]	FALSE	FALSE	FALSE	FALSE	FALSE
2065	##	[51,]	FALSE	FALSE	FALSE	FALSE	FALSE
2066	##	[52,]	FALSE	FALSE	FALSE	FALSE	FALSE
2067	##	[53,]	FALSE	FALSE	FALSE	FALSE	FALSE
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2069	##	[55,]	FALSE	FALSE	FALSE	FALSE	FALSE
2070	##	[56,]	FALSE	FALSE	FALSE	FALSE	FALSE

2071	##	[57,]	FALSE	FALSE	FALSE	FALSE	FALSE
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2073	##	[59,]	FALSE	FALSE	FALSE	FALSE	FALSE
2074	##	[60,]	FALSE	FALSE	FALSE	FALSE	FALSE
2075	##	[61,]	FALSE	FALSE	FALSE	FALSE	FALSE
2076	##	[62,]	FALSE	FALSE	FALSE	FALSE	FALSE
2077	##	[63,]	FALSE	FALSE	FALSE	FALSE	FALSE
2078	##	[64,]	FALSE	FALSE	FALSE	FALSE	FALSE
2079	##	[65,]	FALSE	FALSE	FALSE	FALSE	FALSE
2080	##	[66,]	FALSE	FALSE	FALSE	FALSE	FALSE
2081	##	[67,]	FALSE	FALSE	FALSE	FALSE	FALSE
2082	##	[68,]	FALSE	FALSE	FALSE	FALSE	FALSE
2083	##	[69,]	FALSE	FALSE	FALSE	FALSE	FALSE
2084	##	[70,]	FALSE	FALSE	FALSE	FALSE	FALSE
2085	##	[71,]	FALSE	FALSE	FALSE	FALSE	FALSE
2086	##	[72,]	FALSE	FALSE	FALSE	FALSE	FALSE
2087	##	[73,]	FALSE	FALSE	FALSE	FALSE	FALSE
2088	##	[74,]	FALSE	FALSE	FALSE	FALSE	FALSE
2089	##	[75,]	FALSE	FALSE	FALSE	FALSE	FALSE
2090	##	[76,]	FALSE	FALSE	FALSE	FALSE	FALSE
2091	##	[77,]	FALSE	FALSE	FALSE	FALSE	FALSE
2092	##	[78,]	FALSE	FALSE	FALSE	FALSE	FALSE
2093	##	[79,]	FALSE	FALSE	FALSE	FALSE	FALSE
2094	##	[80,]	FALSE	FALSE	FALSE	FALSE	FALSE
2095	##	[81,]	FALSE	FALSE	FALSE	FALSE	FALSE
2096	##	[82,]	FALSE	FALSE	FALSE	FALSE	FALSE
2097	##	[83,]	FALSE	FALSE	FALSE	FALSE	FALSE

2098	##	[84,]	FALSE	FALSE	FALSE	FALSE	FALSE
2099	##	[85,]	FALSE	FALSE	FALSE	FALSE	FALSE
2100	##	[86,]	FALSE	FALSE	FALSE	FALSE	FALSE
2101	##	[87,]	FALSE	FALSE	FALSE	FALSE	FALSE
2102	##	[88,]	FALSE	FALSE	FALSE	FALSE	FALSE
2103	##	[89,]	FALSE	FALSE	FALSE	FALSE	FALSE
2104	##	[90,]	FALSE	FALSE	FALSE	FALSE	FALSE
2105	##	[91,]	FALSE	FALSE	FALSE	FALSE	FALSE
2106	##	[92,]	FALSE	FALSE	FALSE	FALSE	FALSE
2107	##	[93,]	FALSE	FALSE	FALSE	FALSE	FALSE
2108	##	[94,]	FALSE	FALSE	FALSE	FALSE	FALSE
2109	##	[95,]	FALSE	FALSE	FALSE	FALSE	FALSE
2110	##	[96,]	FALSE	FALSE	FALSE	FALSE	FALSE
2111	##	[97,]	FALSE	FALSE	FALSE	FALSE	FALSE
2112	##	[98,]	FALSE	FALSE	FALSE	FALSE	FALSE
2113	##	[99,]	FALSE	FALSE	FALSE	FALSE	FALSE
2114	##	[100,]	FALSE	FALSE	FALSE	FALSE	FALSE
2115	##	[101,]	FALSE	FALSE	FALSE	FALSE	FALSE
2116	##	[102,]	FALSE	FALSE	FALSE	FALSE	FALSE
2117	##	[103,]	FALSE	FALSE	FALSE	FALSE	FALSE
2118	##	[104,]	FALSE	FALSE	FALSE	FALSE	FALSE
2119	##	[105,]	FALSE	FALSE	FALSE	FALSE	FALSE
2120	##	[106,]	FALSE	FALSE	FALSE	FALSE	FALSE
2121	##	[107,]	FALSE	FALSE	FALSE	FALSE	FALSE
2122	##	[108,]	FALSE	FALSE	FALSE	FALSE	FALSE
2123	##	[109,]	FALSE	FALSE	FALSE	FALSE	FALSE
2124	##	[110,]	FALSE	FALSE	FALSE	FALSE	FALSE

2125	##	[111,]	FALSE	FALSE	FALSE	FALSE	FALSE
2126	##	[112,]	FALSE	FALSE	FALSE	FALSE	FALSE
2127	##	[113,]	FALSE	FALSE	FALSE	FALSE	FALSE
2128	##	[114,]	FALSE	FALSE	FALSE	FALSE	FALSE
2129	##	[115,]	FALSE	FALSE	FALSE	FALSE	FALSE
2130	##	[116,]	FALSE	FALSE	FALSE	FALSE	FALSE
2131	##	[117,]	FALSE	FALSE	FALSE	FALSE	FALSE
2132	##	[118,]	FALSE	FALSE	FALSE	FALSE	FALSE
2133	##	[119,]	FALSE	FALSE	FALSE	FALSE	FALSE
2134	##	[120,]	FALSE	FALSE	FALSE	FALSE	FALSE
2135	##	[121,]	FALSE	FALSE	FALSE	FALSE	FALSE
2136	##	[122,]	FALSE	FALSE	FALSE	FALSE	FALSE
2137	##	[123,]	FALSE	FALSE	FALSE	FALSE	FALSE
2138	##	[124,]	FALSE	FALSE	FALSE	FALSE	FALSE
2139	##	[125,]	FALSE	FALSE	FALSE	FALSE	FALSE
2140	##	[126,]	FALSE	FALSE	FALSE	FALSE	FALSE
2141	##	[127,]	FALSE	FALSE	FALSE	FALSE	FALSE
2142	##	[128,]	FALSE	FALSE	FALSE	FALSE	FALSE
2143	##	[129,]	FALSE	FALSE	FALSE	FALSE	FALSE
2144	##	[130,]	FALSE	FALSE	FALSE	FALSE	FALSE
2145	##	[131,]	FALSE	FALSE	FALSE	FALSE	FALSE
2146	##	[132,]	FALSE	FALSE	FALSE	FALSE	FALSE
2147	##	[133,]	FALSE	FALSE	FALSE	FALSE	FALSE
2148	##	[134,]	FALSE	FALSE	FALSE	FALSE	FALSE
2149	##	[135,]	FALSE	FALSE	FALSE	FALSE	FALSE
2150	##	[136,]	FALSE	FALSE	FALSE	FALSE	FALSE
2151	##	[137,]	FALSE	FALSE	FALSE	FALSE	FALSE

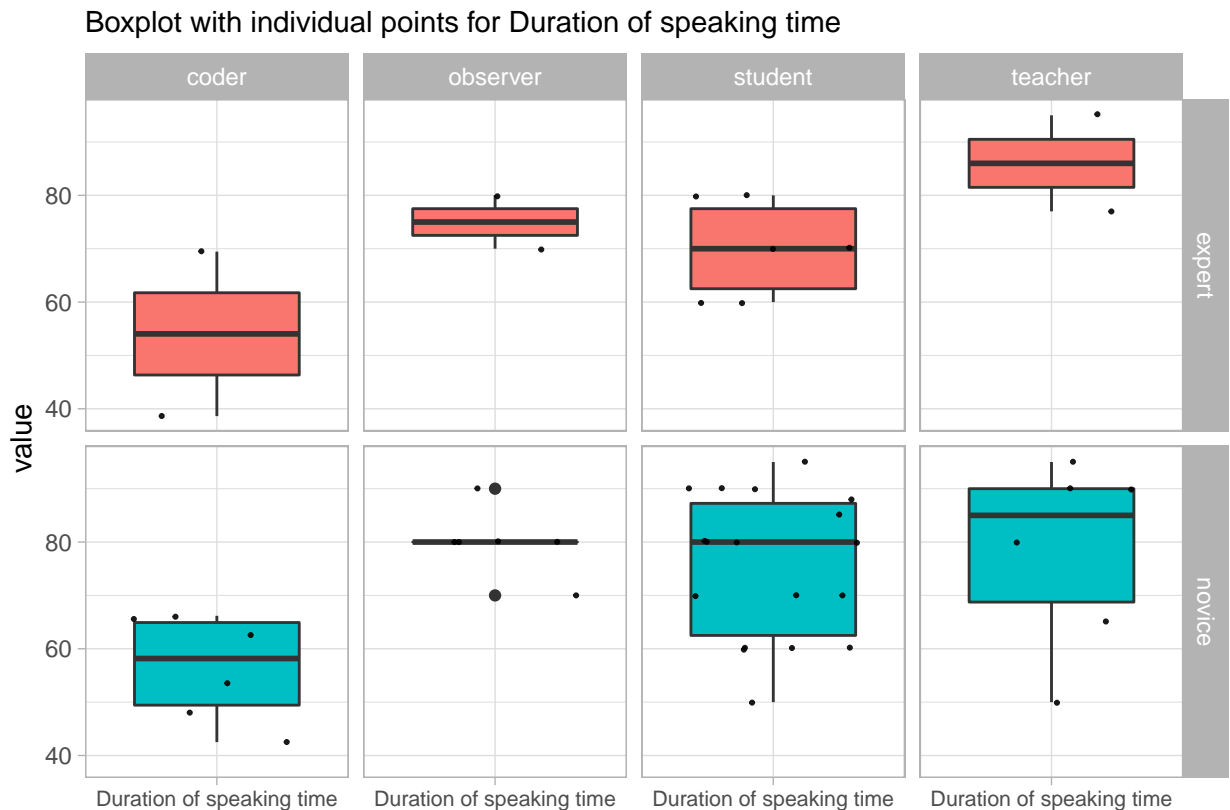
2152	##	[138,]	FALSE	FALSE	FALSE	FALSE	FALSE
2153	##	[139,]	FALSE	FALSE	FALSE	FALSE	FALSE
2154	##	[140,]	FALSE	FALSE	FALSE	FALSE	FALSE
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2159	##	[145,]	FALSE	FALSE	FALSE	FALSE	FALSE
2160	##	[146,]	FALSE	FALSE	FALSE	FALSE	FALSE
2161	##	[147,]	FALSE	FALSE	FALSE	FALSE	FALSE
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2164	##	[150,]	FALSE	FALSE	FALSE	FALSE	FALSE
2165	##	[151,]	FALSE	FALSE	FALSE	FALSE	FALSE
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2170	##	[156,]	FALSE	FALSE	FALSE	FALSE	FALSE
2171	##	[157,]	FALSE	FALSE	FALSE	FALSE	FALSE
2172	##	[158,]	FALSE	FALSE	FALSE	FALSE	FALSE
2173	##	[159,]	FALSE	FALSE	FALSE	FALSE	FALSE
2174	##	[160,]	FALSE	FALSE	FALSE	FALSE	FALSE
2175	##	[161,]	FALSE	FALSE	FALSE	FALSE	FALSE
2176	##	[162,]	FALSE	FALSE	FALSE	FALSE	FALSE
2177	##	[163,]	FALSE	FALSE	FALSE	FALSE	FALSE
2178	##	[164,]	FALSE	FALSE	FALSE	FALSE	FALSE

2179	##	[165,]	FALSE	FALSE	FALSE	FALSE	FALSE
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2183	##	[169,]	FALSE	FALSE	FALSE	FALSE	FALSE
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2185	##	[171,]	FALSE	FALSE	FALSE	FALSE	FALSE
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2187	##	[173,]	FALSE	FALSE	FALSE	FALSE	FALSE
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2190	##	[176,]	FALSE	FALSE	FALSE	FALSE	FALSE
2191	##	[177,]	FALSE	FALSE	FALSE	FALSE	FALSE
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2195	##	[181,]	FALSE	FALSE	FALSE	FALSE	FALSE
2196	##	[182,]	FALSE	FALSE	FALSE	FALSE	FALSE
2197	##	[183,]	FALSE	FALSE	FALSE	FALSE	FALSE
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2202	##	[188,]	FALSE	FALSE	FALSE	FALSE	FALSE
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2205	##	[191,]	FALSE	FALSE	FALSE	FALSE	FALSE

2206	##	[192,]	FALSE	FALSE	FALSE	FALSE	FALSE
2207	##	[193,]	FALSE	FALSE	FALSE	FALSE	FALSE
2208	##	[194,]	FALSE	FALSE	FALSE	FALSE	FALSE
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2214	##	[200,]	FALSE	FALSE	FALSE	FALSE	FALSE
2215	##	[201,]	FALSE	FALSE	FALSE	FALSE	FALSE
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2217	##	[203,]	FALSE	FALSE	FALSE	FALSE	FALSE
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2219	##	[205,]	FALSE	FALSE	FALSE	FALSE	FALSE
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2223	##	[209,]	FALSE	FALSE	FALSE	FALSE	FALSE
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2246	##	[232,]	FALSE	FALSE	FALSE	FALSE	FALSE
2247	##	[233,]	FALSE	FALSE	FALSE	FALSE	FALSE
2248	##	[234,]	FALSE	FALSE	FALSE	FALSE	FALSE
2249	##	[235,]	FALSE	FALSE	FALSE	FALSE	FALSE
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2251	##	[237,]	FALSE	FALSE	FALSE	FALSE	FALSE
2252	##	[238,]	FALSE	FALSE	FALSE	FALSE	FALSE
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2255	##	[241,]	FALSE	FALSE	FALSE	FALSE	FALSE
2256	##	[242,]	FALSE	FALSE	FALSE	FALSE	FALSE
2257	##	[243,]	FALSE	FALSE	FALSE	FALSE	FALSE
2258	##	[244,]	FALSE	FALSE	FALSE	FALSE	FALSE
2259	##	[245,]	FALSE	FALSE	FALSE	FALSE	FALSE


```
2260 ## [246,] FALSE FALSE FALSE FALSE FALSE
2261 ## [247,] FALSE FALSE FALSE FALSE FALSE
2262 ## [248,] FALSE FALSE FALSE FALSE FALSE
2263 ## [249,] FALSE FALSE FALSE FALSE FALSE
2264 ## [250,] FALSE FALSE FALSE FALSE FALSE
2265 ## [251,] FALSE FALSE FALSE FALSE FALSE
2266 ## [252,] FALSE FALSE FALSE FALSE FALSE
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2272 ## [258,] FALSE FALSE FALSE FALSE FALSE
2273 ## [259,] FALSE FALSE FALSE FALSE FALSE
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2279 ## [265,] FALSE FALSE FALSE FALSE FALSE
2280 ## [266,] FALSE FALSE FALSE FALSE FALSE
2281 ## [267,] FALSE FALSE FALSE FALSE FALSE
2282 ## [268,] FALSE FALSE FALSE FALSE FALSE
2283 ## [269,] FALSE FALSE FALSE FALSE FALSE
2284 ## [270,] FALSE FALSE FALSE FALSE FALSE
2285 ## [271,] FALSE FALSE FALSE FALSE FALSE
2286 ## integer(0)
```



2287

2288 **Eyetracking Data.** The Tobii Pro Lab 2 software was used to analyze the
 2289 teachers' visual attention during each mini-lesson. The software allows for non-screen based
 2290 recordings of a participants' attention while moving in real-world settings. The recordings
 2291 of the glasses contain both HD-video from the subjects' perspective as well as the
 2292 respective gaze data mapped onto the video. In order to map multiple recordings to AOIs,
 2293 we first imported the eye-tracking recordings into the Tobii Pro Analyzer software. Second,
 2294 we created dynamic Areas of Interest (AOI) manually to plot the gaze data. Once the
 2295 AOIs are created, the gaze recordings of multiple recordings can be mapped and analyzed
 2296 in aggregated form. Tobii Pro does not allow to do AOI based analyses within Pro Lab. So
 2297 we exported a tsv. file to do further analyses in the software R.

2298 ***Gaze relational index (GRI).***

2299 The GRI is a measure of visual expertise in information processing. This metric is
 2300 calculated as the ratio of mean fixation duration to fixation count. The GRI is higher for

2301 novices than for experts. (Gegenfurtner et al. (2020))

```

2302 ## 'data.frame':      80 obs. of  15 variables:
2303 ## $ ID                  : int  1 2 3 4 5 6 7 8 9 10 ...
2304 ## $ Recording           : int  33 33 33 33 33 33 33 33 33 33 ...
2305 ## $ Label               : chr  "Aperol_pilot_01_04_novice_C_glas
2306 ## $ Group               : chr  "novice" "novice" "novice" "novic
2307 ## $ PersonID            : chr  "C" "C" "C" "C" ...
2308 ## $ Session             : int  1 1 1 1 1 1 1 1 1 1 ...
2309 ## $ Unit                : int  1 1 1 1 1 1 1 1 1 1 ...
2310 ## $ Type.of.disruption   : chr  "chatting with neighbor" "yelling
2311 ## $ Total.duration.of.fixation.in.AOI..sec. : num  5.89 9.5 5.74 6.62 0.92 ...
2312 ## $ Total.duration.of.fixation.in.AOI..msec. : num  5889 9500 5745 6617 920 ...
2313 ## $ Average.duration.of.fixation.in.AOI..sec. : num  0.28 0.73 0.96 0.33 0.31 0.67 0.3
2314 ## $ Average.duration.of.fixation.in.AOI..msec.: num  280 731 957 331 307 ...
2315 ## $ Number.of.fixations.in.AOI              : int  21 13 6 20 3 17 12 8 8 15 ...
2316 ## $ Total.Time.of.Interest.Duration..sec.    : num  724 724 724 724 724 ...
2317 ## $ Total.Time.of.Interest.Duration..msec.    : num  723922 723922 723922 723922 72392

```

2318 Data analysis

2319 We used R [Version 4.0.3; R Core Team (2019)] and the R-packages *dplyr*
2320 *[@]R-dplyr*, *forcats* [Version 0.5.0; Wickham (2020a)], *ggplot2* [Version 3.3.2; Wickham
2321 (2016)], *papaja* [Version 0.1.0.9997; Aust and Barth (2020)], *papayar* (Muschelli, 2016),
2322 *purrr* [Version 0.3.4; Henry and Wickham (2020)], *readr* [Version 1.4.0; Wickham, Hester,
2323 and Francois (2018)], *stringr* [Version 1.4.0; Wickham (2019)], *tibble* [Version 3.0.4; Müller
2324 and Wickham (2021)], *tidyr* [Version 1.1.2; Wickham (2020b)], and *tidyverse* [Version 1.3.0;
2325 Wickham et al. (2019)] for all our analyses.

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Questionnaire Data.

Behavioral Data.

Eyetracking Data.

Discussion

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Table 3

Number and Duration (in msec) of Fixations

PersonID	Group	Fixation Number	Fixation Duration	Average Duration Fixation	SE Duration Fixation
A	expert	14.00	6,980.81	498.63	1,034.60
A	expert	7.00	4,674.45	667.78	1,034.60
A	expert	15.00	4,217.56	281.17	1,034.60
A	expert	26.00	4,740.12	182.31	1,034.60
A	expert	26.00	7,275.66	279.83	1,034.60
A	expert	22.00	9,295.02	422.50	1,034.60
A	expert	19.00	7,155.72	376.62	1,034.60
A	expert	30.00	11,273.40	375.78	1,034.60
A	expert	25.00	5,387.20	215.49	1,034.60
A	expert	13.00	14,400.23	1,107.71	1,034.60
A	novice	9.00	1,499.18	166.58	1,144.21
A	novice	21.00	8,307.13	395.58	1,144.21
A	novice	1.00	159.91	159.91	1,144.21
A	novice	5.00	341.45	68.29	1,144.21
A	novice	38.00	7,131.35	187.67	1,144.21
A	novice	18.00	2,154.55	119.70	1,144.21
A	novice	8.00	1,363.86	170.48	1,144.21
A	novice	20.00	3,437.99	170.48	1,144.21
A	novice	9.00	1,174.07	130.45	1,144.21
A	novice	28.00	10,183.38	363.69	1,144.21
B	novice	16.00	11,435.47	714.72	1,235.77
B	novice	8.00	5,403.07	675.38	1,235.77
B	novice	9.00	7,182.87	798.10	1,235.77
B	novice	21.00	19,342.95	921.09	1,235.77
B	novice	21.00	20,068.02	955.62	1,235.77
B	novice	6.00	8,090.41	1,348.40	1,235.77
B	novice	10.00	5,353.29	535.33	1,235.77