



# Mobile Learning and usage of tablets in primary schools in Hessen

# Media usage of children & young people



- At age of 9 to 10 Jahren 90% use internet on a regular base
- No change at age of 15
- At minimum age of 13 active in social networks
- 47% of the 13-17 age old ones only daily

(MediKuS-Study 2012)

## Digital media found their way into schools, but not into classroom teaching



Reason: lack of concepts for classroom teaching & learning

(Initiative D21 2011)



## Project objectives

- Media competencies of students and teachers
- Scenarios of classroom teaching and usage of tablets
- Infrastructure, technology, experiences
- Study, evaluation, transferable results

# Project implementation

Selection of 6 schools in the state

## Prerequisites

- ▶ School's strategy committent
- ▶ Wifi
- ▶ Scenarios of classroom teaching and usage of tablets

# Project implementation

## Project characteristics

- ▶ 3 years, first year no 1:1 equipment
- ▶ Support by regional media centers
- ▶ Teacher trainings, networking
- ▶ Documentation and exchange of scenarios of classroom teaching and usage of tablets







Goodreader



iMovie



Book Creator



Goodnotes

Online-Whiteboard-Software  
**EasyChalk**  
[www.easychalk.de](http://www.easychalk.de)

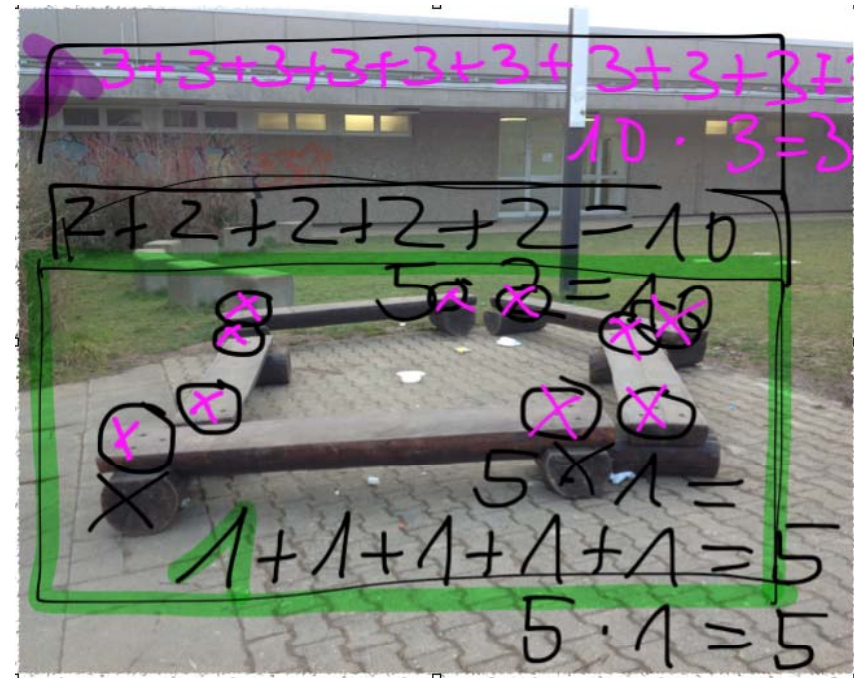


# Examples

Till erklärt die Notenwerte, erstellt mit der App Screenshomp:



<http://schuleameschilishov.wordpress.com/unterrichtskonzepte/mole-projekt/>



## Scientific study

- ▶ **What?** - Attitude, media competencies, infrastructure
  - Effects
  - Successful scenarios/settings?
  - Need for training?
- ▶ **Who?** Teachers, students, parents, management,...
- ▶ **When?** Project start, after each year and continuously
- ▶ **How?** Questionnaires, observation, interviews, notes

# MOLE-App


iPad 17:31 Not Charging

MOLE

Mole-Projekt Schülerbefragung Weiter

## Angaben zum Lernen mit den iPads in letzter Zeit

Was hat dir in der letzten Zeit mit dem iPad gut gefallen?

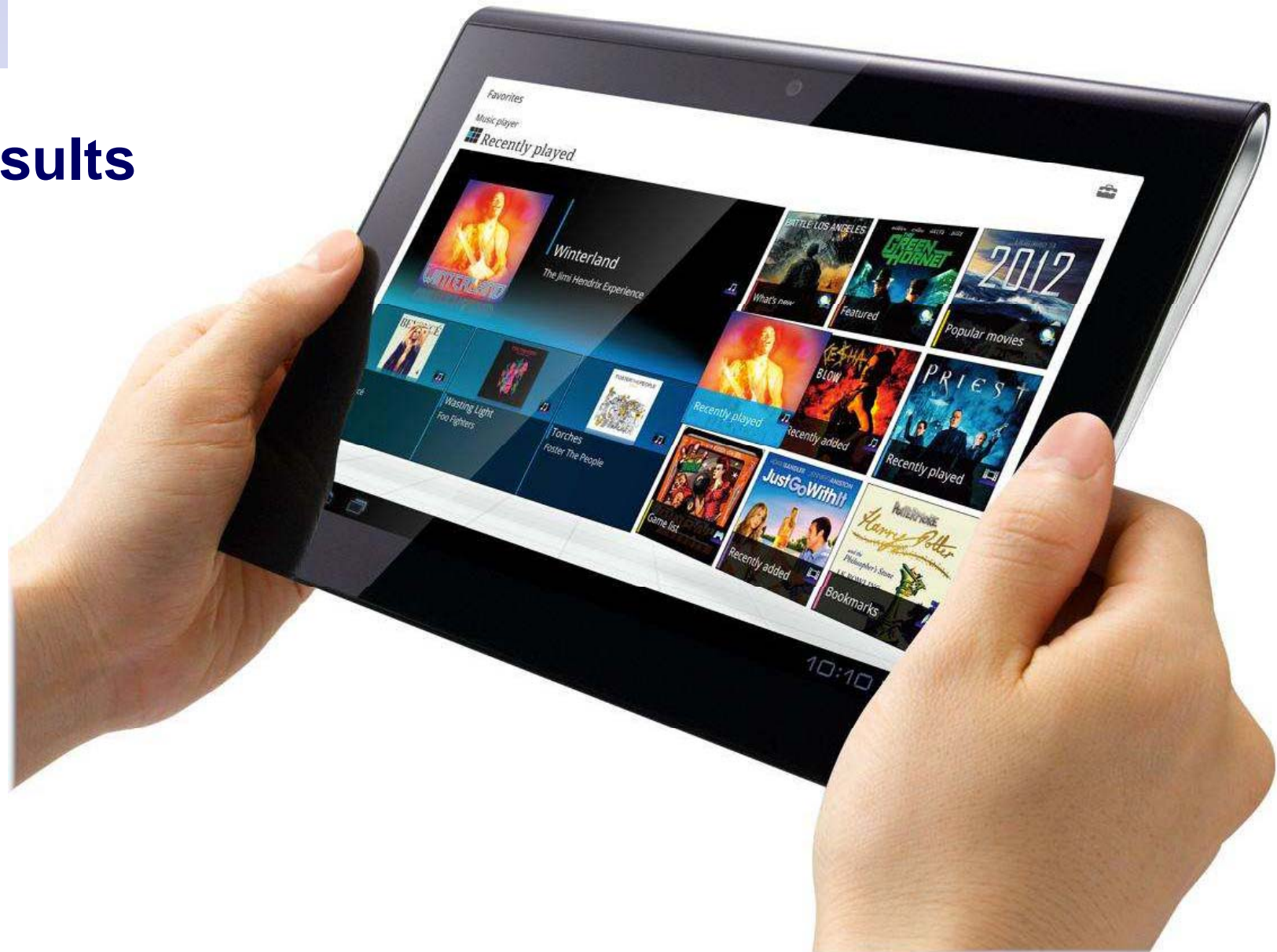


Deine-Aufnahme-Teil 1

Deine-Aufnahme-Teil 2

TEST

# Results



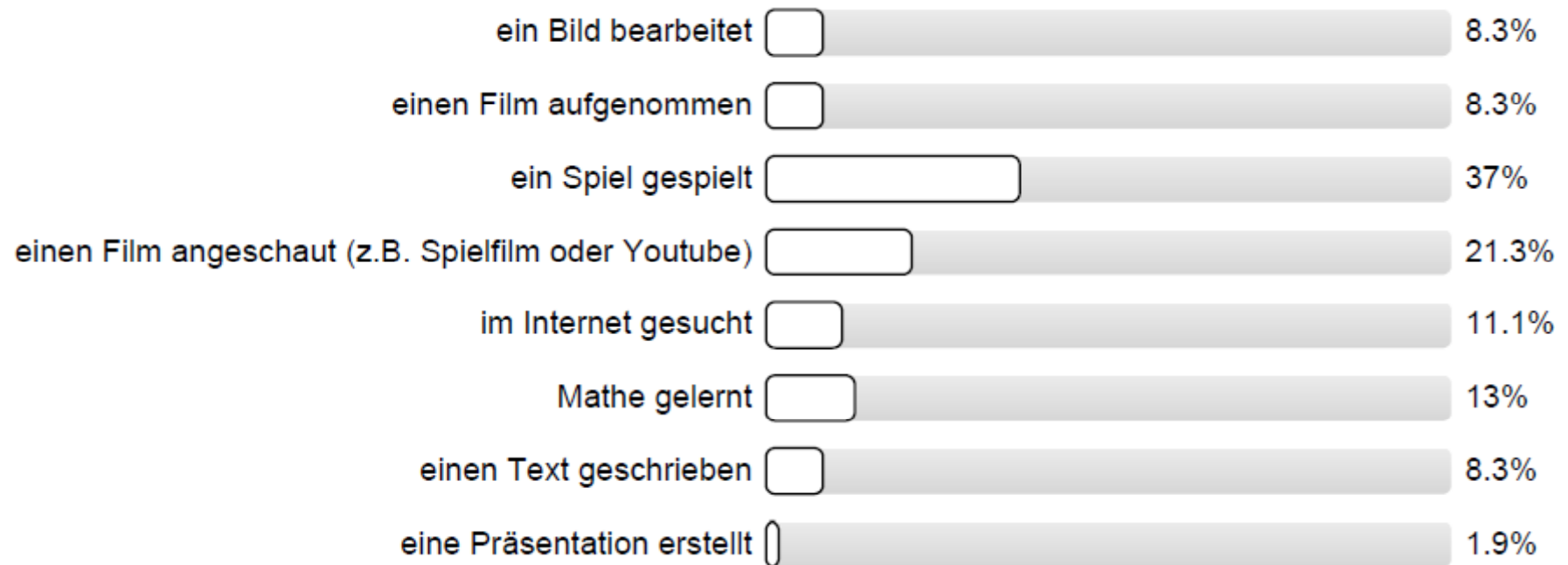
## Media usage of students

(n=108; Age M=8,2 Jahre; 53% female)

- 80% watch TV daily, 56% more than 1 hour.
- 54% use smartphone; 20 % mobile
- 40% iPad/Tablet-PC at home
- 25% computer games (Wii, Nintendo, etc.)

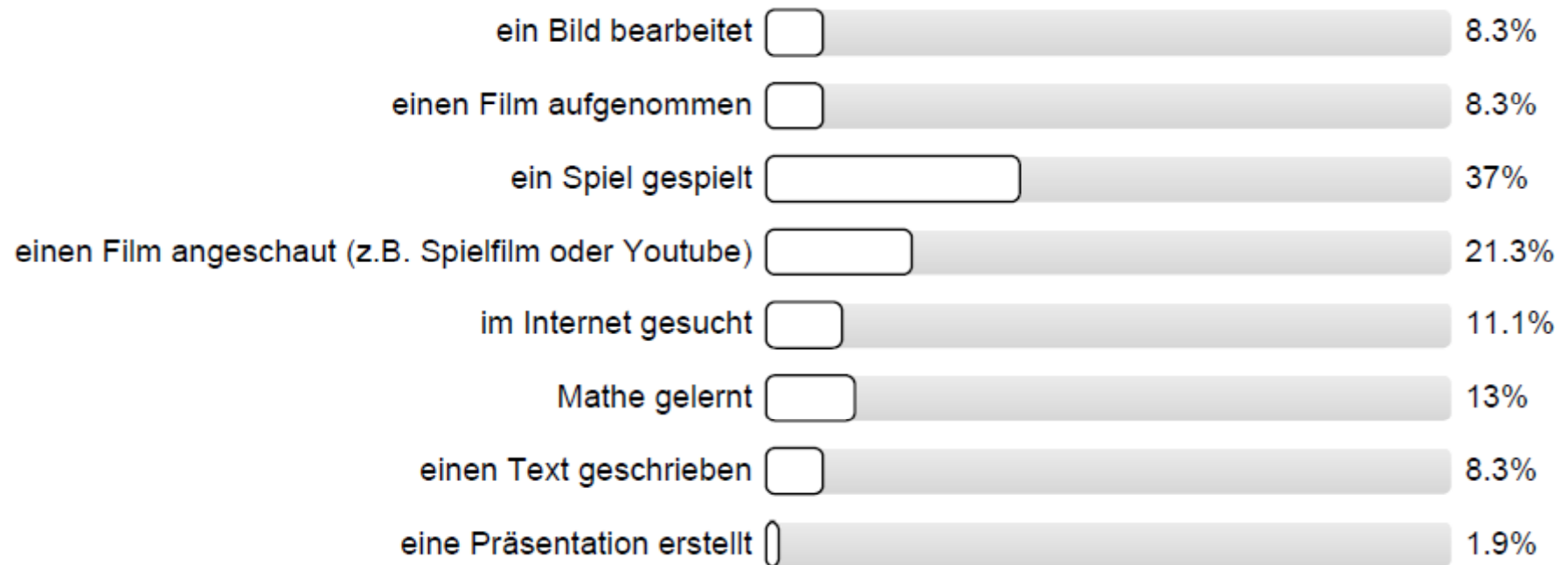
## Experiences up to now

Did you use an iPad before the project for..... (n=108)



## Experiences up to now

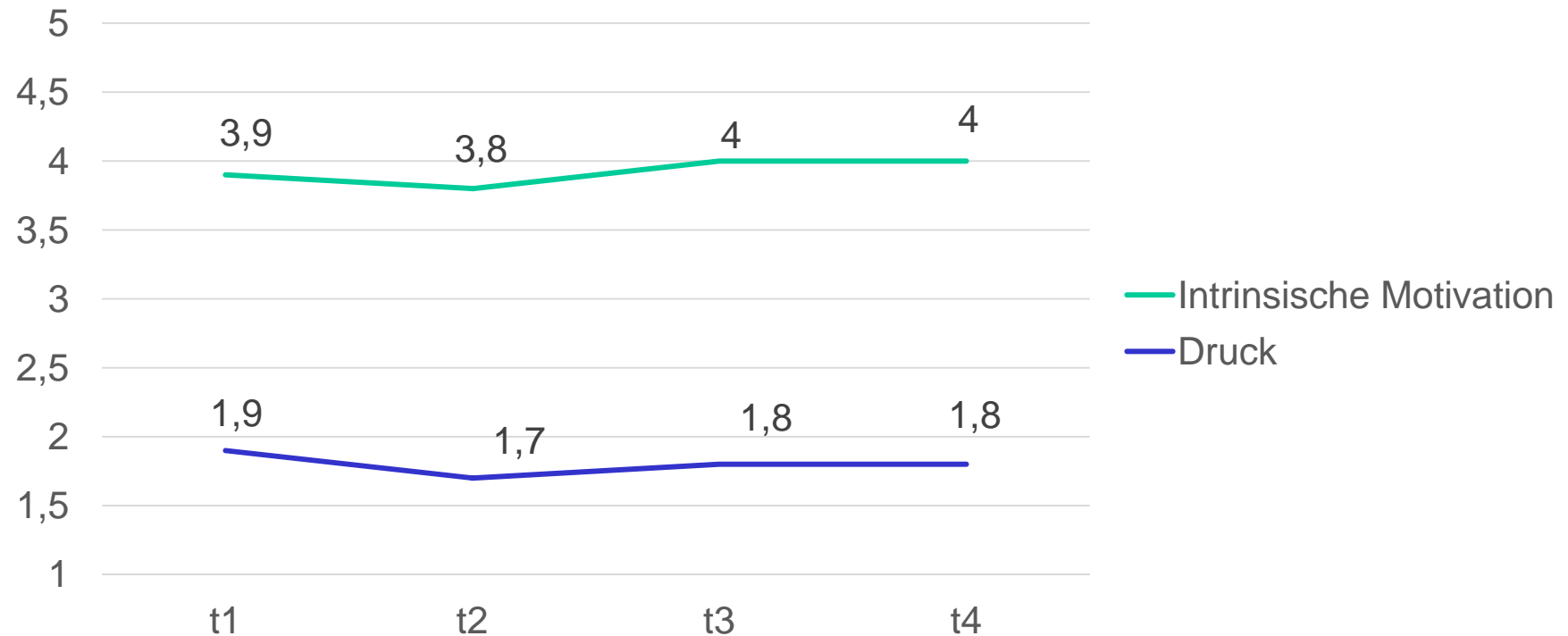
Did you use an iPad before the project for..... (n=108)



**No differences between boys and girls!**

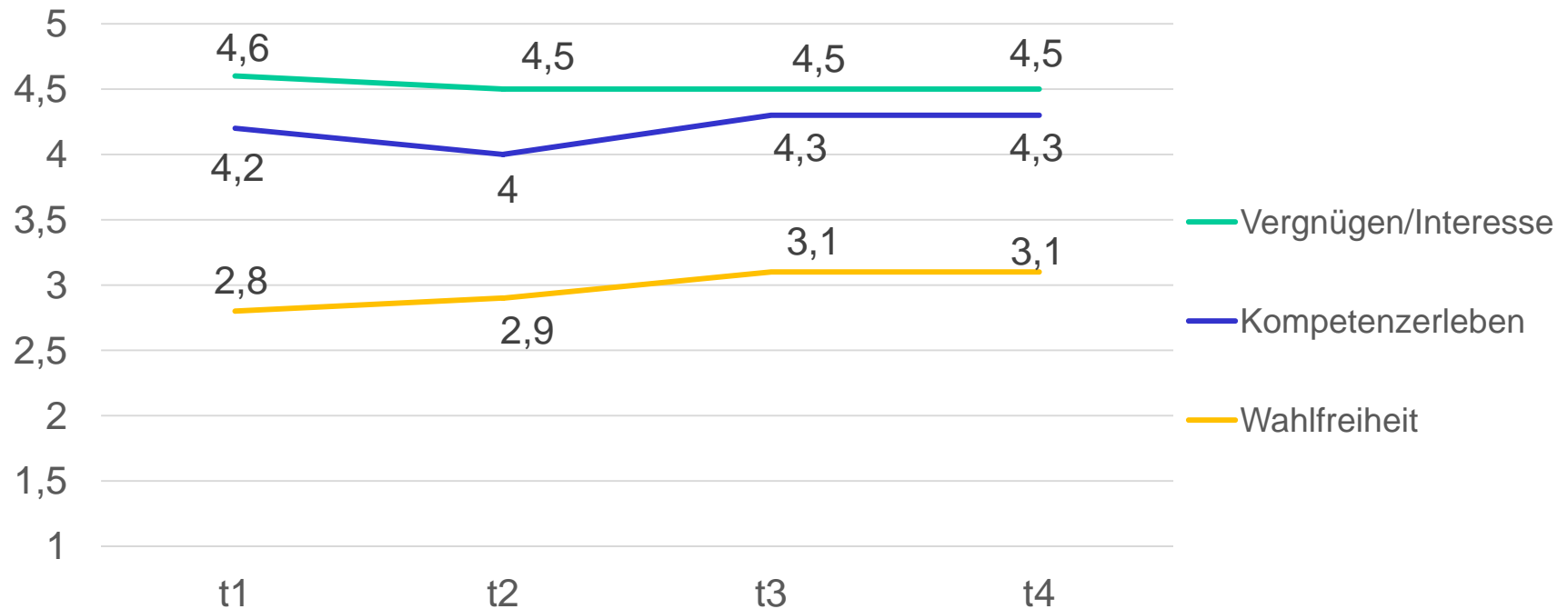


## Motivation to use the tablet in schools



Skala von 1=„stimmt gar nicht“ bis 5=„stimmt völlig“

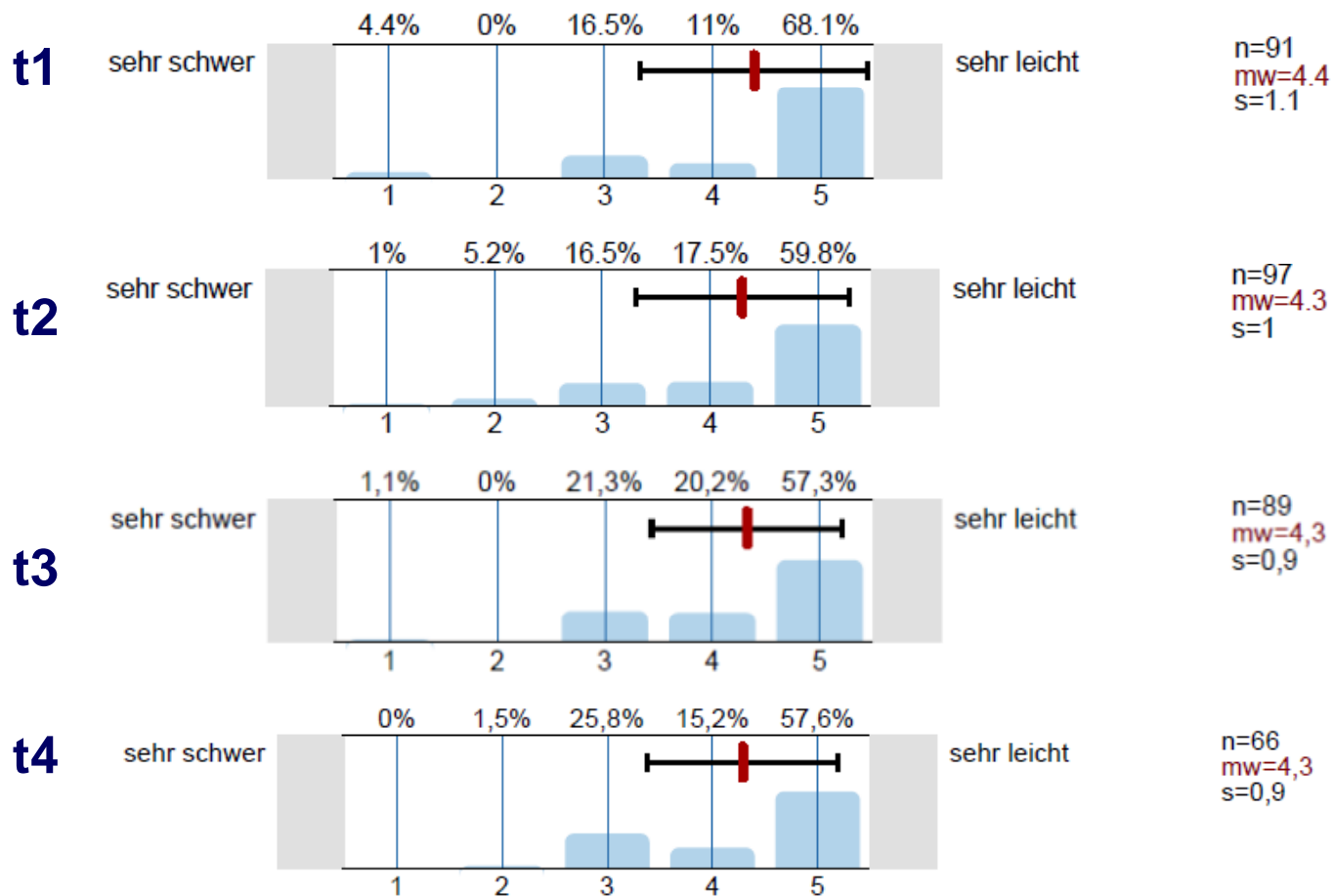
## Dimensions of intrinsic motivation



Skala von 1=„stimmt gar nicht“ bis 5=„stimmt völlig“

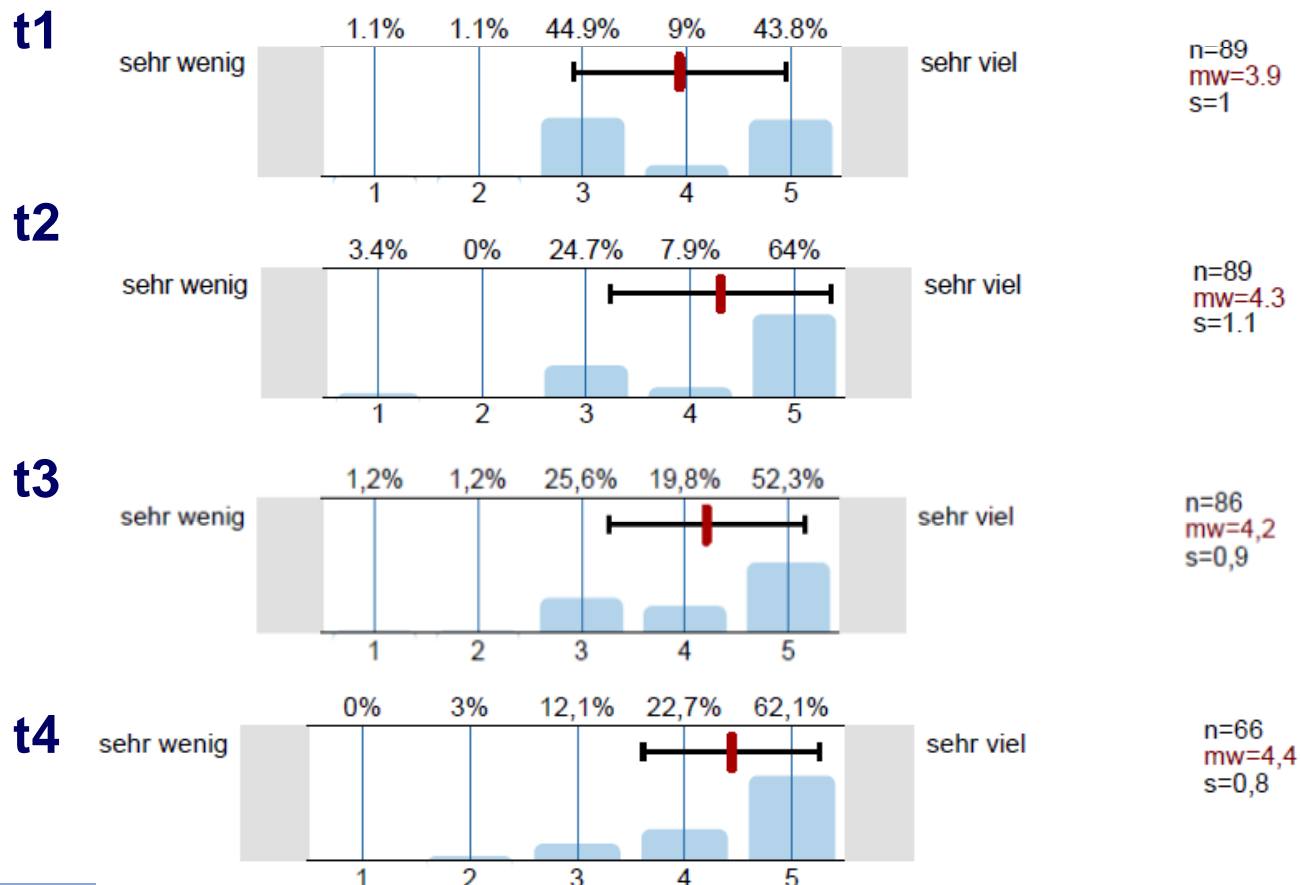
# Learning with the tablet

## How did you like it?



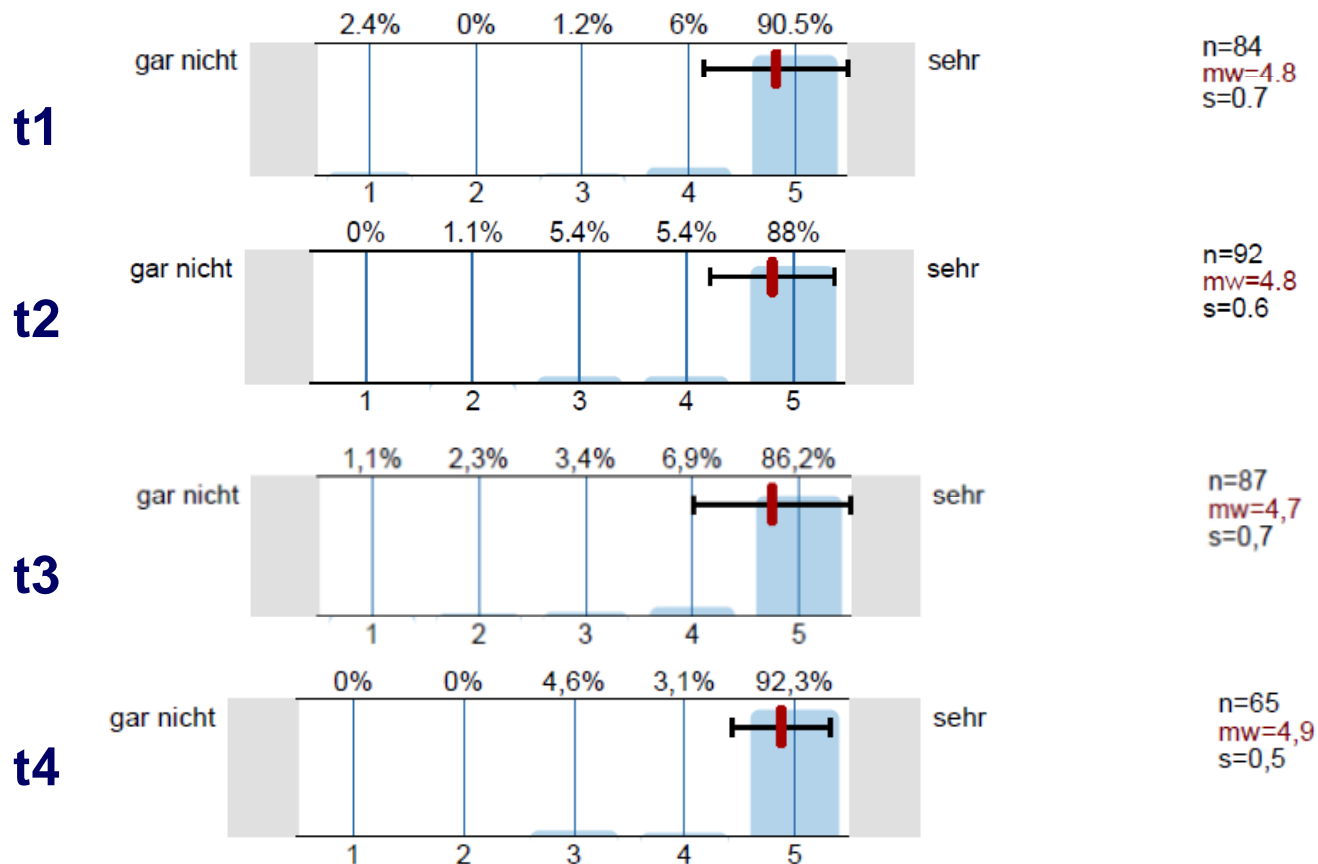
# Learning with the tablet

## How much did you learn?



# Learning with the tablet

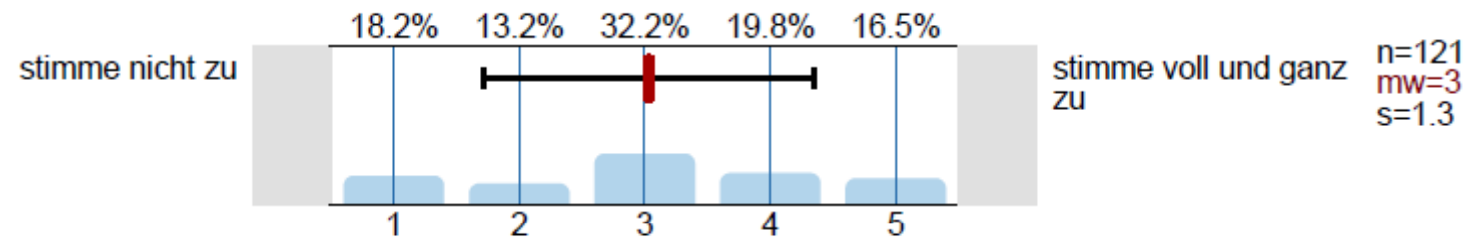
Do you want to keep using it in school?



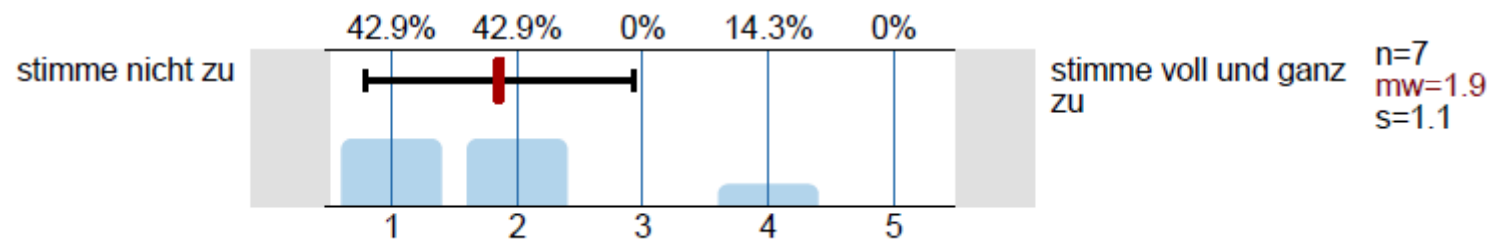
# Who is responsible? Teachers or parents?

Its the parents task

Parents

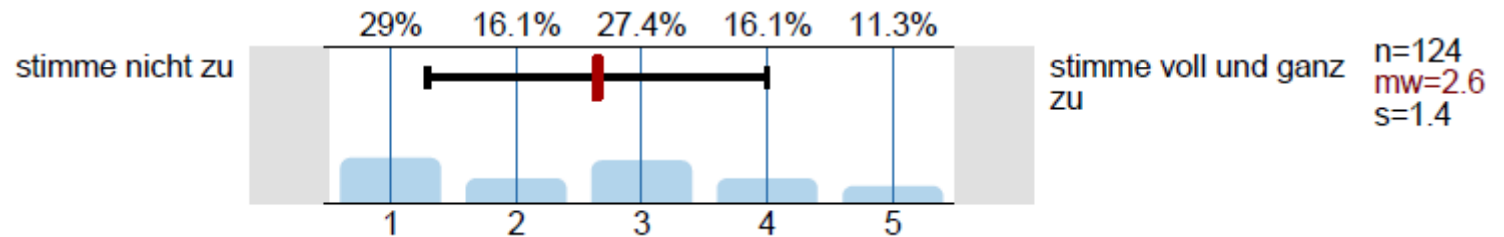


Teachers

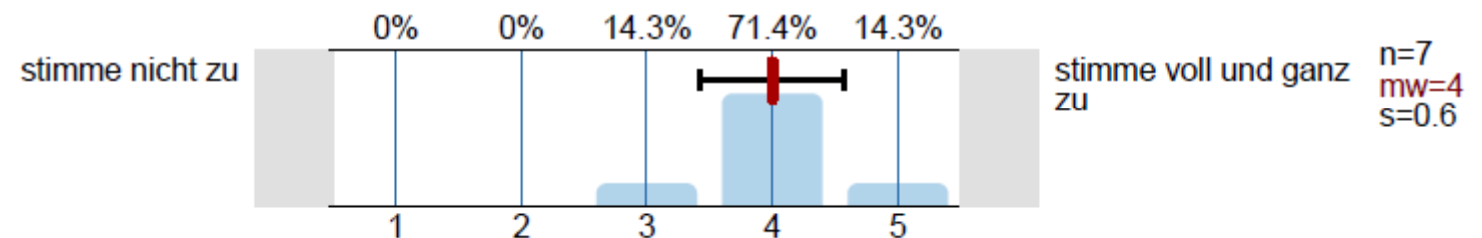


# „Students spend too much time with digital media in their spare time“

## Parents



## Teachers

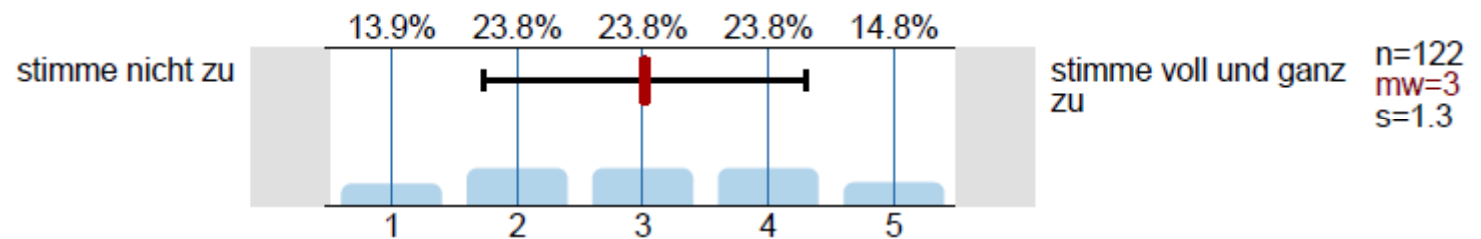




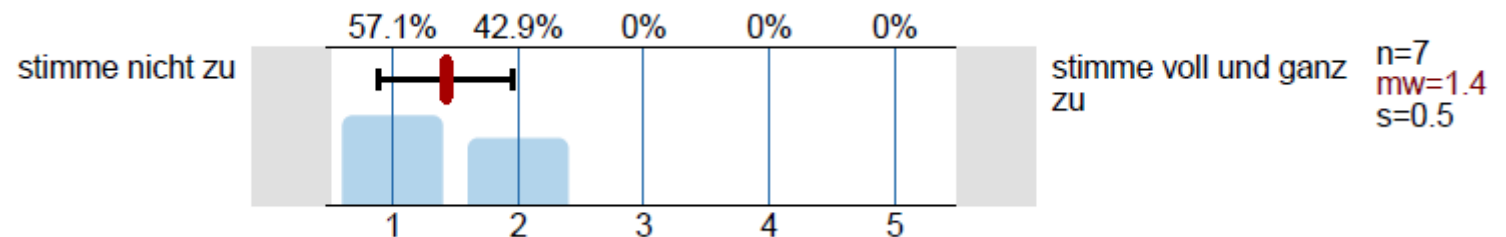
## Expected effects

Teachers and students will talk less with each other

Parents



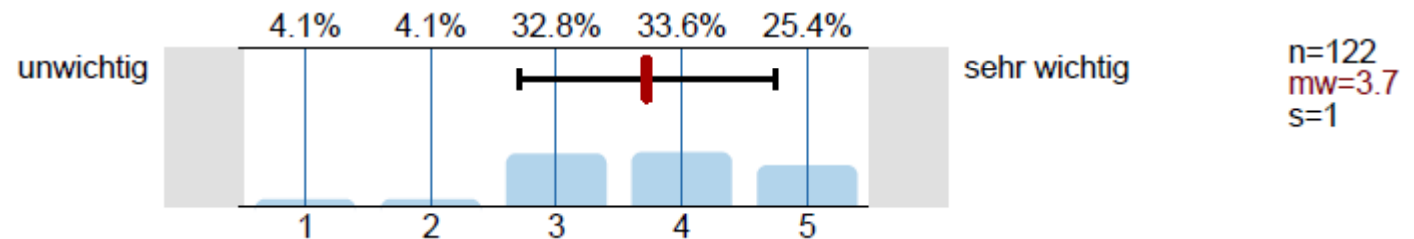
Teachers



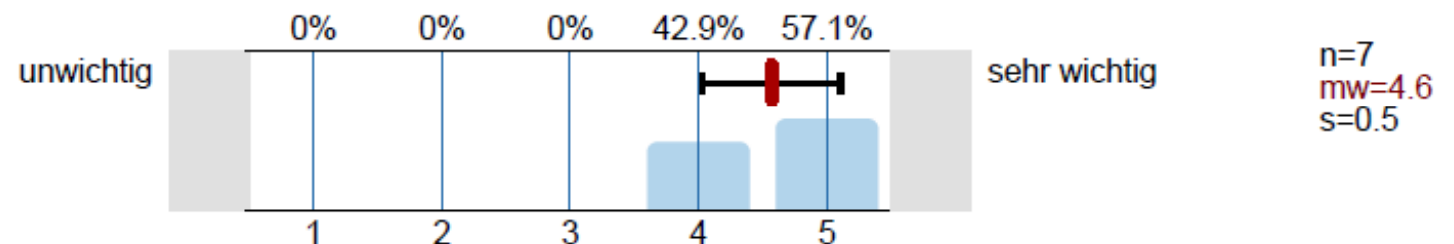
# Expected results

## Students learn to cooperate

Parents



Teachers





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[www.mole-hessen.de](http://www.mole-hessen.de)