

# WIE DAS GEHIRN LERNT, SPRACHE ZU SEHEN

Michael A. Skeide

# ÜBERBLICK

1 .....  ..... LESENEURONE ENTSTEHEN AUS  
GESICHTSERKENNUNGSNEURONEN

2 .....  ..... EINE ABKÜRZUNG ZUM  
MENTALEN LEXIKON

3 .....  ..... LESEN LERNEN ALS  
TIEFENHIRNSTIMULATION

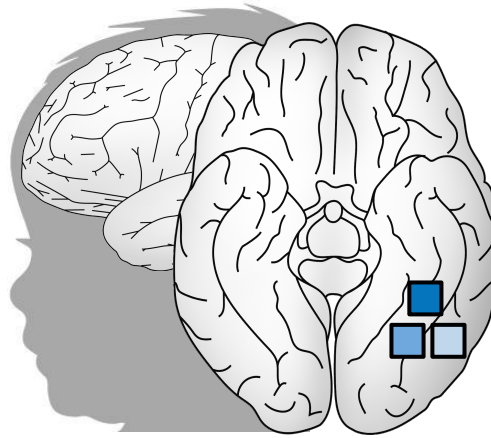
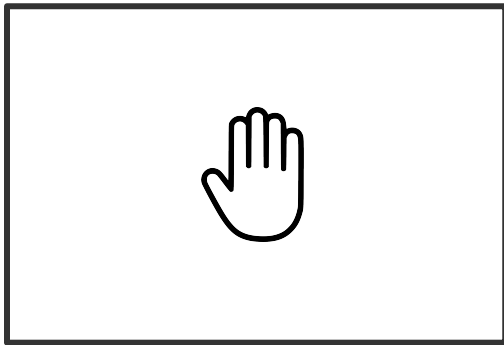


LESENEURONE  
ENTSTEHEN AUS  
**GESICHTSERKENNUNGS-  
NEURONEN**

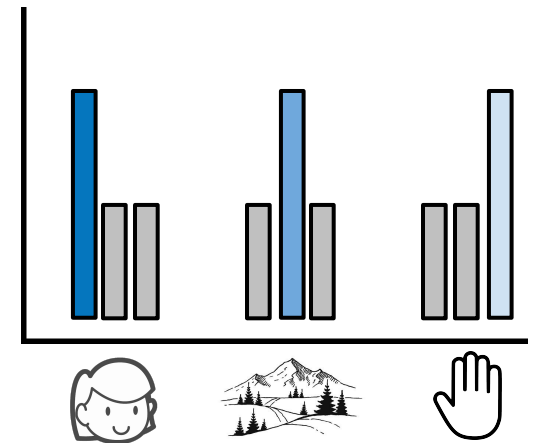
# MAKE SENSE OF THE SENSES



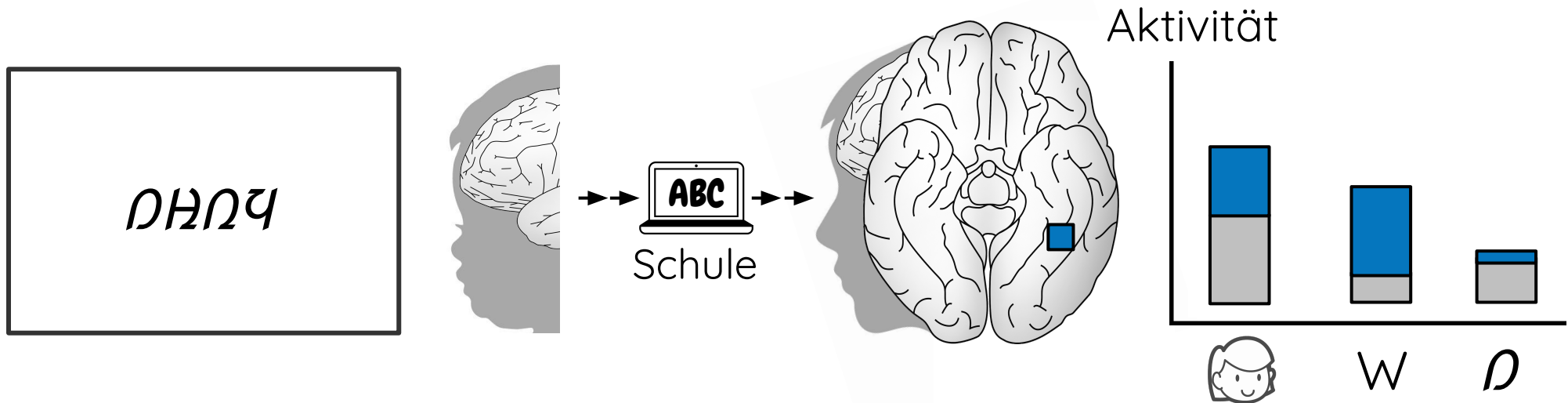
# VISUELLE KATEGORISIERUNG BEI BABYS



Aktivität



# VON DER GESICHTSERKENNUNG ZUM LESEN



# MAKE SENSE OF THE SENSES



# EINE ABKÜRZUNG ZUM MENTALEN LEXIKON

workrooms of a painter, sculptor, photographer, etc. 2 room(s) where films or plays are recorded and photographed. 3 room from which radio or TV programmes are broadcast which recordings are made.

**studio couch**, couch that can be used as a bed.

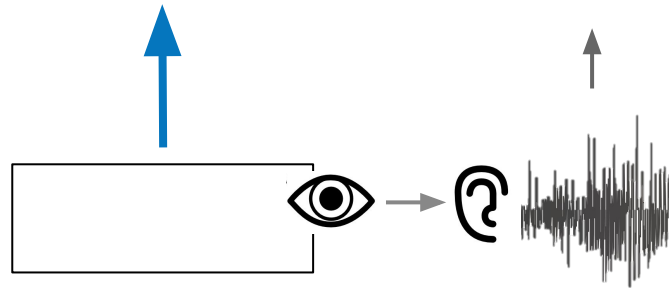
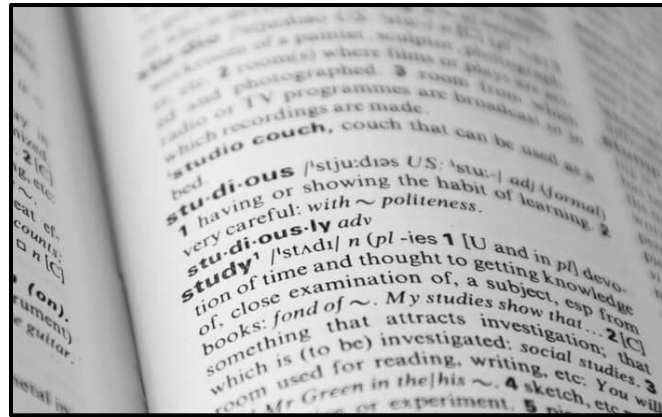
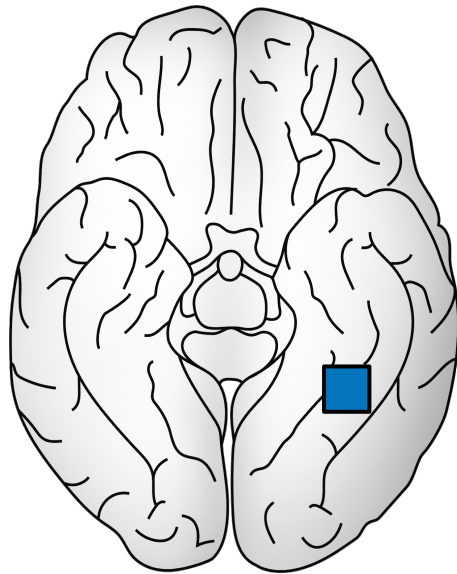
**stu-di-ous** /'stju:diəs US: 'stu:-/ adj (formal)  
1 having or showing the habit of learning. 2 very careful: with ~ politeness.

**stu-di-ous-ly** adv

**study**<sup>1</sup> /'stʌdi/ n (pl -ies) 1 [U and in pl] devotion of time and thought to getting knowledge of, close examination of, a subject, esp from books: *fond of ~*. *My studies show that...* 2 [C] something that attracts investigation; that which is (to be) investigated: social studies. 3 room used for reading, writing, etc. You will find Mr Green in the/his ~. 4 sketch, etc. 5 piece of experiment. 5 picture, etc.

THE HUMAN MIND  
DOES NOT READ  
EVERY LETTER BY ITSELF,  
BUT THE WORD AS A WHOLE.

# WEGE INS MENTALE LEXIKON



THE HUMAN MIND  
DOES NOT READ  
EVERY LETTER BY ITSELF,  
BUT THE WORD AS A WHOLE.

workrooms of a painter, sculptor, photographer, etc. 2 room(s) where films or plays are recorded and photographed. 3 room from which radio or TV programmes are broadcast which recordings are made.

**studio couch**, couch that can be used as a bed.

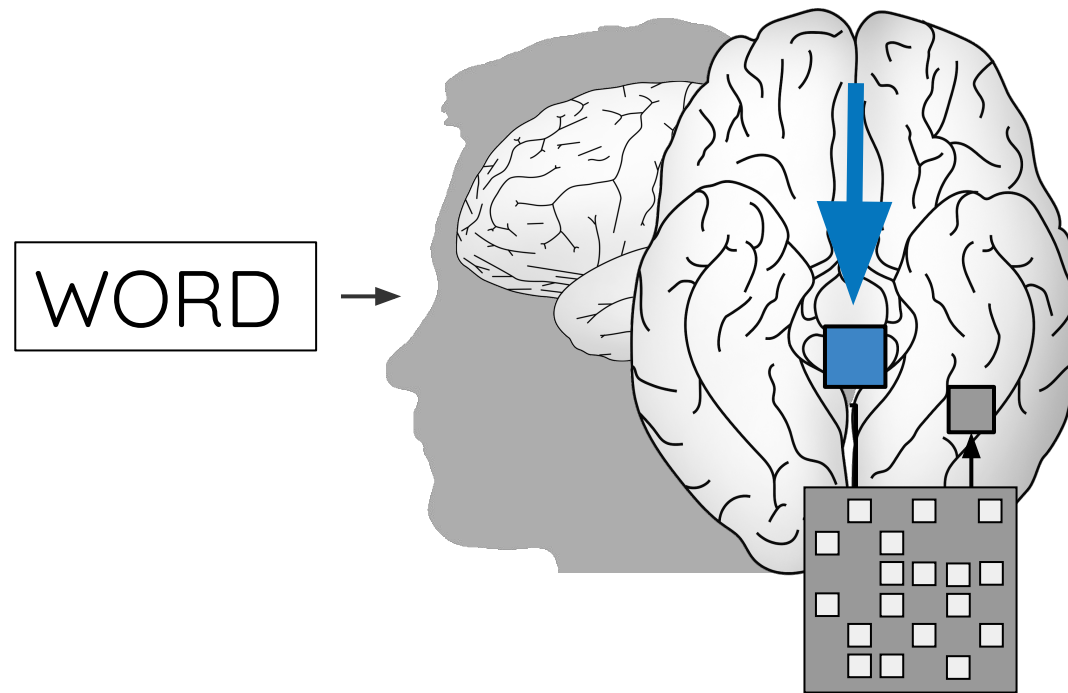
**stu-di-ous** /'stju:diəs US: 'stu:-/ adj (formal)  
1 having or showing the habit of learning. 2 very careful: with ~ politeness.

**stu-di-ous-ly** adv

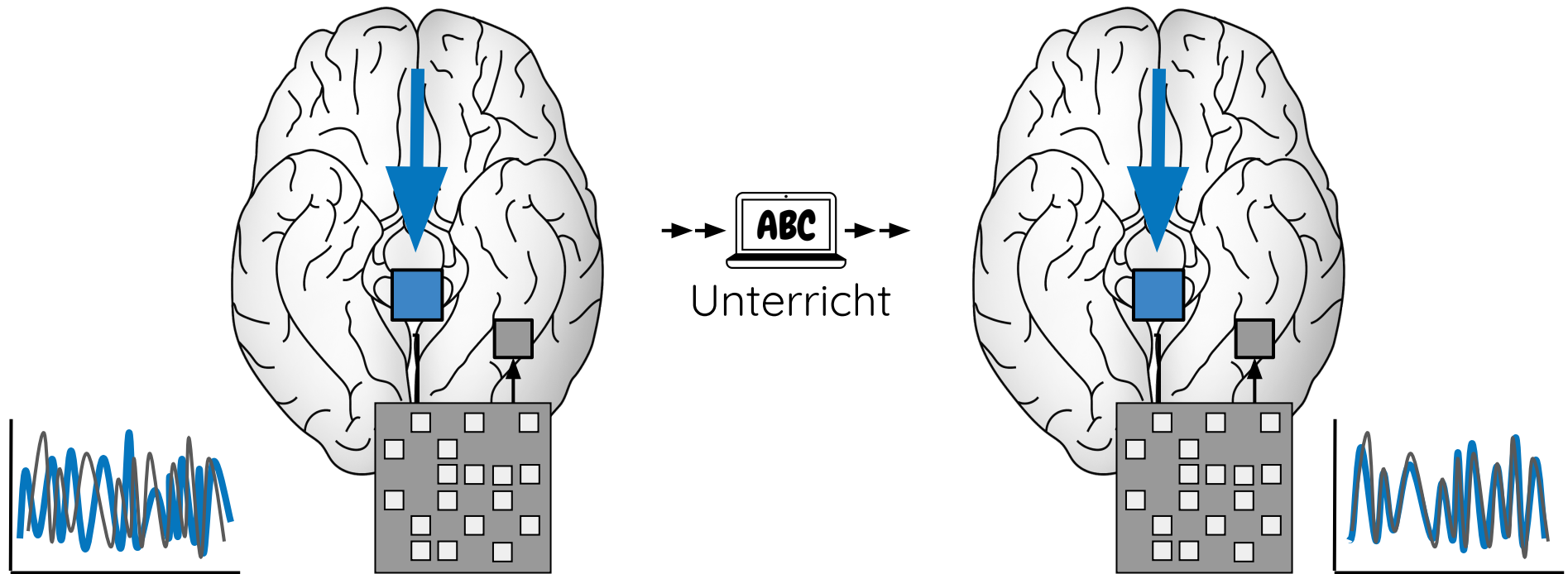
**study**<sup>1</sup> /'stʌdi/ n (pl -ies) 1 [U and in pl] devotion of time and thought to getting knowledge of, close examination of, a subject, esp from books: *fond of ~*. *My studies show that...* 2 [C] something that attracts investigation; that which is (to be) investigated: social studies. 3 room used for reading, writing, etc. You see Mr Green in the/his ~. 4 sketch, etc. 5 piece of experiment. 5 piece of experiment.

# LESEN LERNEN ALS TIEFENHIRNSTIMULATION

# ÜBERSETZUNG VON TEXT IN HIRNLESBAREN CODE



# TIEFENHIRN-GROßHIRN KOPPLUNG



# INDIVIDUAL & CULTURAL & CLINICAL DIFFERENCES



# लेर्चे रीडिंग कांग्रेस



Skeide et al. **Science Advances** 2017

Skeide **JACOBS FOUNDATION** 2021-23

**erc** 2020-25

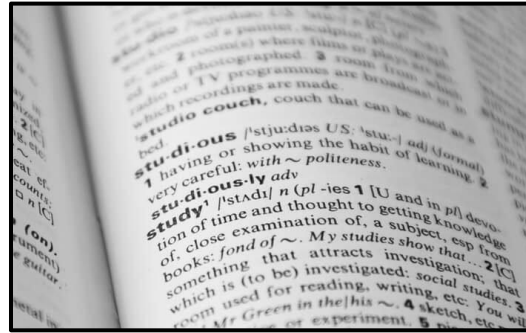
15

# ZUSAMMENFASSUNG

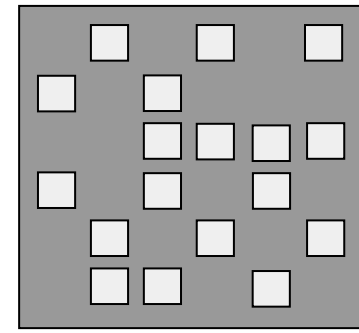
# MEILENSTEINE DES LESENLERNENS



von Gesichtern  
zu Buchstaben



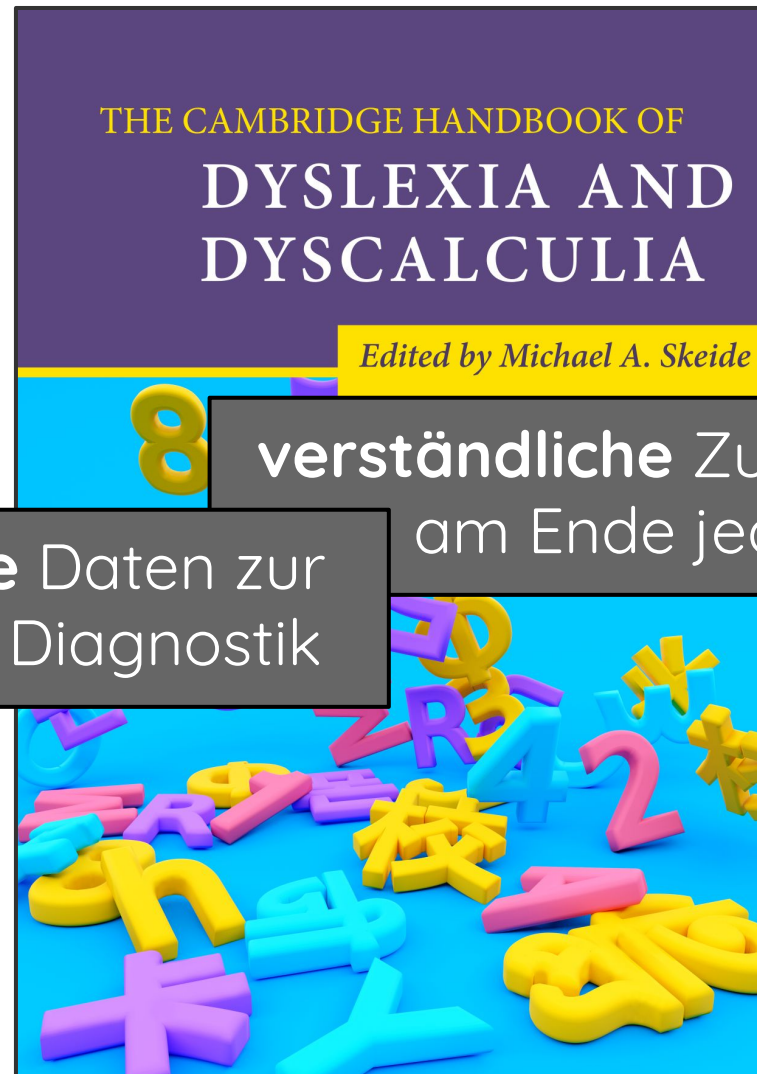
Bedeutungen  
auf einen Blick



visuelle  
Codierung

ZUM WEITERLESEN

# LERNSCHWIERIGKEITEN



**praxisrelevante** Daten zur  
Prävention und Diagnostik

**verständliche** Zusammenfassung  
am Ende jedes Kapitels

# DANKSAGUNGEN

# FÖRDERUNGEN



Research Grant

Middle East  
Collaboration Grant



Starting Grant



Research Fellowship



R01

# AUSZEICHNUNGEN



