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**Universitätsklinikum
Tübingen**



LEAD
Graduate School & Research Network

Training / Career

- 2000-2006: Studies in Psychology (Humboldt University Berlin)
- 2007-2011: Research Associate in the Group „Psychophysiology and Functional Imaging“ (Department of Psychiatry, Psychosomatics and Psychotherapy, University Hospital Würzburg)
- 2010-2011: Deputy Head of the Group „Psychophysiology and Functional Imaging“ (Department of Psychiatry, Psychosomatics and Psychotherapy, University Hospital Würzburg)
- 2011: Ph.D. (Title of the Dissertation: „Die Verarbeitung emotionaler Reize bei Patienten mit Panikstörung: Eine Betrachtung der neuroanatomischen Hypothese“)
- 2012-now: Research Associate in the Group „Psychophysiology and Optical Imaging“ (Department of Psychiatry and Psychotherapy, University Hospital Tübingen)
- 2013-now: Junior Research Group Leader of the Intersection „Educational Neuroscience“ (LEAD Graduate School & Research Network, University Tübingen), since 2015 Steering Board Member
- 2016-now: Co-opted Board Member of the German Migraine and Headache Society (DMKG)
- 2017-now: Tübingen Postdoctoral Academy of Education Sciences and Psychology

Research Interests

- Anxiety Disorders, ADHD, Affective Disorders, Substance Abuse Disorders
- Numerical Cognition
- Neuroscience and Education Science
- Headache
- Neurobiology of Mental Disorders
- Neuroimaging of Mental Disorders
- Methodological Research
- Interdisciplinary Research (Education Science, Medicine, Computer Science)

Stipends / Awards

- Travel Award for the ENSN Neuroschool (Wuerzburg, October 2010)
- Travel Award for the DGPA Spring School (St. Goar, March 2011)
- Oral Presentation Award at the German Pain Congress, DMKG Young Scientists' Symposium (Mannheim, October 2012)
- Travel Award for the 2nd Herrenhausen Conference (Hannover, April 2013)
- Travel Award of the DMKG for the 4th Dreiländertagung Kopfschmerzsymposium im Gasteiner Tal (Bad Hofgastein, Austria, February 2014)
- Travel Award for the 4th Latin American School for Education, Cognitive and Neural Sciences (Punta del Este, Uruguay, March 2014)
- Travel Award of the DGBP for the International Symposium of the SFB TRR 58 (Münster, September 2015)
- Travel Award for the IDeA Winter School (Rodgau Nieder-Roden, November/Dezember 2017)

Memberships

- DFG SFB / TRR 58 "Fear, Anxiety, Anxiety Disorders" (Furcht, Angst, Angst-erkrankungen) [2008-2011]
- Society for Anxiety Research (GAF) [since 2010]
- German Migraine and Headache Society (DMKG) [since 2012]
- European Headache Federation (EHF) [since 2012]
- German Society for Biological Psychiatry [2016]
- Society for functional Near-Infrared Spectroscopy [since 2016]
- German Society of Psychophysiology and its Applications (DGPA) [since 2016]
- Tübinger Postdoktorandenakademie für Empirische Bildungsforschung [seit 2017]

Invited Reviewer for Scientific Journals

- American Journal of Psychiatry
- Behavioral and Brain Functions
- Biological Psychology
- British Journal of Psychology
- Cephalalgia
- Cerebral Cortex
- Clinical Psychology & Psychotherapy
- Cognition & Emotion
- Current Psychiatry Reviews
- Developmental Cognitive Neuroscience
- European Journal of Personality
- European Neuropsychopharmacology
- Frontiers in Behavioral Neuroscience
- Frontiers in Human Neuroscience
- Frontiers in Psychology
- International Journal of Psychophysiology
- Journal of Affective Disorders
- Journal of Anxiety Disorders
- Journal of Attention Disorders

- Journal of Exercise and Sport Psychology
- Journal of Headache and Pain
- Journal of Neuroscience Methods
- Journal of Psychiatry and Neuroscience
- Journal of Visualized Experiments
- Kopfschmerz-News
- Mind, Brain, and Education
- Neuroimage
- Neuropsychologia
- Neuropsychopharmacology
- Neuroscience & Biobehavioral Reviews
- PLoS One
- Psychiatry Research
- Social Cognitive and Affective Neuroscience
- Translational Psychiatry
- World Journal of Biological Psychiatry

Publications

- Kutscheidt, K., **Dresler, T.**, Hudak, J., Barth, B., Blume, F., Ethofer, T., Fallgatter, A. J. & Ehlis, A.-C. (in press). Interoceptive awareness in patients with attention-deficit/hyperactivity disorder (ADHD). *ADHD Attention Deficit and Hyperactivity Disorders*.
- Kimmig, A.-C. S., **Dresler, T.**, Hudak, J., Haeussinger, F. B., Wildgruber, D., Fallgatter, A. J., Ehlis, A.-C. & Kreifelts, B. L. (in press). Feasibility of NIRS-based neurofeedback training in social anxiety disorder - behavioral and neural correlates. *Journal of Neural Transmission*.
- Kopf, J., Glöckner, S., Schecklmann, M., **Dresler, T.**, Plichta, M. M., Veeh, J., Kittel-Schneider, S. & Reif, A. (in press). Neural correlates of response inhibition in patients with bipolar disorder during acute vs. remitted phase. *World Journal of Biological Psychiatry*.
- Neeb, L. & **Dresler, T.** (2019). Sollten Patienten Kopfschmerz-Apps verwenden? [Should patients use headache apps?]. *Schmerzmedizin*, 34(6), 10-11.
- Artemenko, C., Soltanlou, M., Bieck, S. M., Ehlis, A.-C., **Dresler, T.** & Nuerk, H.-C. (2019). Math ability affects neurocognitive processing of arithmetic complexity – A combined fNIRS-EEG study. *Frontiers in Human Neuroscience*, 13, 227.
- Dresler, T.***, Caratozzolo, S.*, Guldolf, K., Huhn, J.-I., Loiacono, C., Niiberg-Pikksööt, T., Puma, P., Sforza, G., Tobia, T., Ornello, R.* & Serafini, G.*, on behalf of the European Headache Federation School of Advanced Studies (EHF-SAS) (2019). Understanding the nature of psychiatric comorbidity in migraine: A systematic review focused on interactions and treatment implications. *Journal of Headache and Pain*, 20(1), 51.
- Soltanlou, M., Artemenko, C., **Dresler, T.**, Fallgatter, A. J., Nuerk, H.-C.* & Ehlis, A.-C.* (2019). Oscillatory EEG changes during arithmetic learning in children. *Developmental Neuropsychology*, 44(3), 325-338.
- Niebler, R., Eschweiler, G. W., **Dresler, T.**, Rieger, M. A. & Metzger, F. G. (2019). "Would you like to skype with your daughter?"- A qualitative feasibility study to Video telecommunication in a psychogeriatric hospital. *CIN: Computers, Informatics, Nursing*, 37(4), 181-186.
- Dresler, T.**, Klan, T., Kraya, T. & Kropp, P. (2019). Aktuelle Entwicklungen in der psychologischen Kopfschmerztherapie [Current developments in psychological headache therapy]. *CME - Premium-Fortbildung für die medizinische Praxis*, 16(3), 53-62. (Secondary publication)

- Vágvölgyi, R., Rohland, M.-L., Sahlender, M., **Dresler, T.**, Schrader, J. & Nuerk, H.-C. (2019). Diversity of functional illiterates: results from a multiple-single case study. *Zeitschrift für Erziehungswissenschaft*, *22*(1), 123-151.
- Blume, F., Göllner, R., Möller, K., **Dresler, T.**, Ehlis, A.-C. & Gawrilow, C. (2019). Do students learn better when seated close to the teacher? A virtual reality classroom study considering individual levels of inattention and hyperactivity-impulsivity. *Learning & Instruction*, *61*, 138-147.
- Soltanlou, M., Artemenko, C., **Dresler, T.**, Fallgatter, A. J., Ehlis, A.-C.* & Nuerk, H. C.* (2019). Math anxiety in combination with low visuospatial memory impairs math learning in children. *Frontiers in Psychology* *10*, 98.
- Diener, H.-C., Holle-Lee, D., Nägel, S., **Dresler, T.**, Gaul, C., Göbel, H., Heinze-Kuhn, K., Jürgens, T. P., Kropp, P., Meyer, B., May, A., Schulte, L., Solbach, K., Straube, A., Kamm, K., Förderreuther, S., Gantenbein, A., Petersen, J., Sandor, P. & Lampl, C. (2019). Treatment of migraine attacks and prevention of migraine. Guidelines by the German Migraine and Headache Society and the German Society of Neurology. *Clinical and Translational Neuroscience*, *3*(1), 1-40. (Secondary publication)
- Obersteiner, A., **Dresler, T.**, Bieck, S. M. & Moeller, K. (2019). Understanding Fractions: Integrating Results from Mathematics Education, Cognitive Psychology, and Neuroscience. In A. Norton & M. W. Alibali (Eds.), *Constructing Number: Merging Perspectives from Psychology and Mathematics Education* (S. 135-162), New York: Springer.
- Dresler, T.**, Klan, T., Kraya, T. & Kropp, P. (2018). Aktuelle Entwicklungen in der psychologischen Kopfschmerztherapie [Current developments in psychological headache therapy]. *Schmerzmedizin*, *34*(6), 24-32. (Secondary publication)
- Ehlis, A.-C., Barth, B., Hudak, J., Storchak, H., Weber, L., Kimmig, A.-C. S., Kreifelts, B., **Dresler, T.** & Fallgatter, A. J. (2018). Near-infrared spectroscopy (NIRS) as a new tool for neurofeedback trainings – Applications in psychiatry and methodological considerations. *Japanese Psychological Research*, *60*(4), 225-241.
- Diener, H.-C., Gaul, C., Kropp, P., **Dresler, T.**, Förderreuther, S., Gantenbein, A., Göbel, H., Heinze-Kuhn, K., Holle-Lee, D., Jürgens, T. P., Kamm, K., Lampl, C., May, A., Meyer, B., Nägel, S., Petersen, J., Sandor, P., Schulte, L., Solbach, K. & Straube, A. (2018). Therapie der Migräneattacke und Prophylaxe der Migräne, S1-Leitlinie, 2018 [Therapy of migraine attacks and migraine prophylaxis]. *Nervenheilkunde*, *37*, 689-715. (Secondary publication)
- Diener, H.-C., Gaul, C., Kropp, P., **Dresler, T.**, Evers, S., Förderreuther, S., Gantenbein, A., Holle-Lee, L., Katsarava, Z., Lampl, C., May, A., Meier, U., Nägel, S., Niederberger, U., Sandor, P., Schankin, C., Siefert, S. & Zemp, M. (2018). Kopfschmerz bei Übergebrauch von Schmerz- oder Migränemitteln (Medication Overuse Headache = MOH), S1-Leitlinie, 2018 [Headache due to overuse of analgesics and anti-migraine agents]. In Deutsche Gesellschaft für Neurologie (Eds.), *Leitlinien für Diagnostik und Therapie in der Neurologie*. Online: www.dgn.org/leitlinien
- Dresler, T.**, Bugden, S., Gouet, C., Lallier, M., Oliveira, D., Pinheiro-Chagas, P., Pires, A. C., Wang, Y., Zugarramurdi, C. & Weissheimer, J. (2018). A Translational Framework of Educational Neuroscience in Learning Disorders. *Frontiers in Integrative Neuroscience*, *12*, 25.
- Artemenko, C., Soltanlou, M., **Dresler, T.**, Ehlis, A.-C.* & Nuerk, H.-C.* (2018). The neural correlates of arithmetic difficulty depend on mathematical ability: Evidence from combined fNIRS and ERP. *Brain Structure and Functions*, *223*(6), 2561-2574.
- Diener, H.-C., Holle, D., **Dresler, T.** & Gaul, C. (2018). Chronische Kopfschmerzen durch Übergebrauch von Schmerz- und Migränemitteln [Chronic headache due to overuse of analgesics and anti-migraine agents]. *Deutsches Ärzteblatt*, *115*, 365-370.
- Dresler, T.**, Klan, T., Kraya, T. & Kropp, P. (2018). Aktuelle Entwicklungen in der psychologischen Kopfschmerztherapie [Current developments in psychological headache therapy]. *NeuroTransmitter*, *29*(5), 58-65.

- Diener, H.-C., Gaul, C., Kropp, P., **Dresler, T.**, Förderreuther, S., Gantenbein, A., Göbel, H., Heinze-Kuhn, K., Holle-Lee, D., Jürgens, T. P., Kamm, K., Lampl, C., May, A., Meyer, B., Nägel, S., Petersen, J., Sandor, P., Schulte, L., Solbach, K. & Straube, A. (2018). Therapie der Migräneattacke und Prophylaxe der Migräne, S1-Leitlinie, 2018 [Therapy of migraine attacks and migraine prophylaxis]. In Deutsche Gesellschaft für Neurologie (Eds.), *Leitlinien für Diagnostik und Therapie in der Neurologie*. Online: www.dgn.org/leitlinien
- Soltanlou, M.*, Sitnikova, M.*, Nuerk, H.-C. & **Dresler, T.** (2018). Applications of functional near-infrared spectroscopy (fNIRS) in studying cognitive development: the case of mathematics and language. *Frontiers in Psychology, 9*, 277.
- Artemenko, C.*, Coldea, A.*, Soltanlou, M., **Dresler, T.**, Nuerk, H.-C. & Ehlis, A.-C. (2018). The neural circuits of number and letter copying – An fNIRS study. *Experimental Brain Research, 236(4)*, 1129-1138.
- Artemenko, C., Soltanlou, M., Ehlis, A.-C., Nuerk, H.-C.* & **Dresler, T.*** (2018). The neural correlates of mental arithmetic in adolescents: A longitudinal fNIRS study. *Behavioral and Brain Functions, 14*, 5.
- Dresler, T.** & Kropp, P. (2018). Neues zur psychologischen Kopfschmerztherapie [News on psychological headache therapy]. *Neuro Aktuell, 2/3*, 25-29.
- Dahlem, M. A., Roesch, A., Neeb, L., Kropp, P. & **Dresler, T.** (2018). Was leisten Migräne-Apps? [What do migraine apps offer?]. *MMW – Fortschritte der Medizin [Münchener Medizinische Wochenschrift], 160(2)*, 51-54.
- Soltanlou, M., Artemenko, C., Ehlis, A.-C., Huber, S., Fallgatter, A. J., **Dresler, T.*** & Nuerk, H.-C.* (2018). Reduction but no shift in brain activation after arithmetic learning in children: A simultaneous fNIRS-EEG study. *Scientific Reports, 8(1)*, 1707.
- Lehr, E., Schag, K., **Dresler, T.**, Grosse-Wentrup, M., Hautzinger, M., Fallgatter, A. J., Zipfel, S., Giel, K. E.* & Ehlis, A.-C.* (2018). Food specific inhibitory control under negative mood in binge eating disorder – evidence from a multi-method approach. *International Journal of Eating Disorders, 51(2)*, 112-123.
- Deppermann, S.*, Vennewald, N.*, Diemer, J., Sickinger, S., Haeussinger, F. B., **Dresler, T.**, Notzon, S., Laeger, I., Arolt, V., Ehlis, A.-C., Fallgatter, A. J. & Zwanzger, P. (2017). Neurobiological and clinical effects of fNIRS-controlled rTMS in patients with panic disorder/agoraphobia during cognitive-behavioural therapy. *Neuroimage: Clinical, 15*, 668-677.
- Kropp, P., Meyer, B., Meyer, W. & **Dresler, T.** (2017). An update on behavioral treatments in migraine – current knowledge and future options. *Expert Review of Neurotherapeutics, 17(11)*, 1059-1068.
- Kropp, P., Meyer, B., **Dresler, T.**, Fritsche, G., Gaul, C., Niederberger, U., Förderreuther, S., Malzacher, V., Jürgens, T. P., Marziniak, M. & Straube, A. (2017). Entspannungsverfahren und verhaltenstherapeutische Interventionen zur Behandlung der Migräne - Leitlinie der Deutschen Migräne- und Kopfschmerzgesellschaft [Relaxation Techniques and Behavioral Therapeutic Interventions in Treating Migraine – Guideline of the German Migraine and Headache Society]. *Der Schmerz, 31(5)*, 433-447.
- Hudak, J., Blume, F., **Dresler, T.**, Haeussinger, F. B., Renner, T. J., Fallgatter, A. J., Gawrilow, C. & Ehlis, A.-C. (2017). Near-infrared spectroscopy-based frontal lobe neurofeedback integrated in virtual reality modulates brain and behavior in highly-impulsive adults. *Frontiers in Human Neuroscience, 11*, 425.
- Gaul, C., Roguski, J., **Dresler, T.**, Abbas, H., Totzeck, A., Görlinger, K., Diener, H.-C. & Weber, R. (2017). Efficacy and safety of occipital nerve blocks in cluster headache: a prospective observational study. *Cephalalgia, 37(9)*, 873-880.
- Soltanlou, M., Artemenko, C., **Dresler, T.**, Haeussinger, F. B., Fallgatter, A. J., Ehlis, A.-C.* & Nuerk, H.-C.* (2017). Increased arithmetic complexity is associated to with domain-general but not to domain-specific magnitude processing in children: A simultaneous fNIRS-EEG study. *Cognitive, Affective, & Behavioral Neuroscience 17(4)*, 724-736.

- Dresler, T.**, Meyer, B. & Kropp, P. (2017). Nicht-medikamentöse Therapie der Migräne: Empfehlungen für die Praxis [Non-pharmacological migraine treatment - A practice-oriented summary]. *MMW – Fortschritte der Medizin [Münchener Medizinische Wochenschrift]*, 159(10), 59-61.
- Schroeder, P., **Dresler, T.**, Bahnmueller, J., Artemenko, C., Cohen Kadosh, R. & Nuerk, H.-C. (2017). Cognitive enhancement of numerical and arithmetic capabilities: A short mini review of available transcranial electric stimulation studies. *Journal of Cognitive Enhancement*, 1, 39-47.
- Kropp, P., Niederberger, U. & **Dresler, T.** (2017). Selbstbehandlung von Migräne und Spannungskopfschmerzen [Self-treatment of migraine and tension headache]. In C. Eichenberg, E. Brähler & H.-W. Hoefert (Eds.), *Selbstbehandlung und Selbstmedikation [Self-Treatment and Self-Medication]* (S. 115-127), Göttingen: Hogrefe.
- Blume, F., Hudak, J., **Dresler, T.**, Kühnhausen, J., Renner, T. J., Ehlis, A.-C. & Gawrilow, C. (2017). NIRS-based Neurofeedback Training in a Virtual Reality Classroom in Children with ADHD. *Trials*, 18, 41.
- Rohe, T.*, **Dresler, T.***, Stuhlinger, M., Weber, M., Strittmatter, T. & Fallgatter, A. J. (2017). Bauliche Modernisierungen in psychiatrischen Kliniken beeinflussen Zwangsmaßnahmen [Architectural modernization of a psychiatric hospital influences the application of coercive measures]. *Der Nervenarzt*, 88, 70-77.
- Hagberg, G. E., Bause, J., Ethofer, T., Ehses, P., **Dresler, T.**, Herbert, C., Pohmann, R., Shajan, G., Fallgatter, A. J., Pavlova, M. A. & Scheffler, K. (2017). Whole brain MP2RAGE-based mapping of the longitudinal relaxation time at 9.4T. *Neuroimage*, 144, 203-216.
- Biehl, S. C., Merz, C. J., **Dresler, T.**, Heupel, J., Reichert, S., Jacob, C. P., Deckert, J. & Herrmann, M. J. (2016). Increase or Decrease of fMRI Activity in Adult Attention Deficit/ Hyperactivity Disorder: Does It Depend on Task Difficulty? *International Journal of Neuropsychopharmacology*, 19(10), pyw04.
- Vágvölgyi, R., Coldea, A., **Dresler, T.**, Schrader, J. & Nuerk, H.-C. (2016). A review about functional illiteracy: Definition, cognitive, linguistic and numerical aspects. *Frontiers in Psychology*, 7, 1617.
- Kropp, P., Meyer, B., **Dresler, T.**, Fritsche, G., Gaul, C., Niederberger, U., Förderreuther, S., Malzacher, V., Jürgens, T. P., Marziniak, M. & Straube, A. (2016). Entspannungsverfahren und verhaltenstherapeutische Interventionen zur Behandlung der Migräne - Leitlinie der Deutschen Migräne- und Kopfschmerzgesellschaft [Relaxation Techniques and Behavioral Therapeutic Interventions in Treating Migraine - Guideline of the German Migraine and Headache Society]. *Nervenheilkunde*, 35, 502-515.
- Lehr, E. J., Schag, K., Brinkmann, A., Ehlis, A.-C., Fallgatter, A. J., Zipfel, S., Giel, K. E. & **Dresler, T.** (2016). Alleged approach-avoidance conflict for food stimuli in binge eating disorder. *PLoS One*, 11(4), e0152271.
- Guhn, A., Domschke, K., Müller, L. D., **Dresler, T.**, Eff, F., Kopf, J., Deckert, J., Reif, A. & Herrmann, M. J. (2015). Neuropeptide S receptor gene variation and neural correlates of cognitive emotion regulation. *Social Cognitive and Affective Neuroscience*, 10(12), 1730-1737.
- Barth, B., Kroczeck, A., Deppermann, S., **Dresler, T.**, Fallgatter, A. J. & Ehlis, A.-C. (2015). Epidemiologie und Pathogenese der Komorbidität von Aufmerksamkeitsdefizit-/ Hyperaktivitätsstörung (ADHS) und Sucht - Die Rolle der Exekutivfunktionen [Epidemiology and Pathogenesis of the Comorbidity of Attention-Deficit/Hyperactivity Disorder (ADHD) and Addiction - The Role of Executive Functions]. *Sucht*, 61(5), 279-291.
- Kropp, P., Klinger, R. & **Dresler, T.** (2015). Migräne: Was kann Anfälle auslösen? [Migraine: What triggers attacks?]. *Der Allgemeinarzt*, 37(10), 22-26.
- Geib, J., Rieger, M. A., Joos, S., Eschweiler, G. W., **Dresler, T.** & Metzger, F. G. (2015). Introduction of auricular acupuncture in elderly patients suffering from major depression - protocol of a mixed methods feasibility study. *BioMed Research International*, 2015, 678410.

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- Kropp, P., Klinger, R. & **Dresler, T.** (2015). Die Erwartungshaltung – Migräneauslöser Nummer 1? Schmerztagebuch, Wochenende, Schokolade und Rotwein [Headache diary, weekends, chocolate and red wine: are expectations the leading migraine trigger?]. *MMW – Fortschritte der Medizin [Münchener Medizinische Wochenschrift]*, *157* (2), 62-66.
- Dresler, T.***, Rohe, T.*, Weber, M., Strittmatter, T. & Fallgatter, A. J. (2015). Effects of Improved Hospital Architecture on Coercive Measures. *World Psychiatry*, *14*(1), 105-106.
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- Bahnmüller, J., **Dresler, T.**, Ehlis, A.-C., Cress, U. & Nuerk, H.-C. (2014). NIRS in motion - Unraveling the neurocognitive underpinnings of embodied numerical cognition. *Frontiers in Psychology*, *5*, 743.
- Dieler, A. C.*, **Dresler, T.***, Joachim, K., Deckert, J., Hermann, M. J. & Fallgatter, A. J. (2014). Can intermittent Theta-Burst Stimulation as add-on to psychotherapy improve nicotine abstinence? Results from a pilot study. *European Addiction Research*, *20*(5), 248-253.
- Dresler, T.**, Barth, B., Ethofer, T., Lesch, K.-P., Ehlis, A.-C.* & Fallgatter, A. J.* (2014). Imaging genetics in adult attention-deficit / hyperactivity disorder (ADHD): A way towards pathophysiological understanding? *Borderline Personality Disorder and Emotion Dysregulation*, *1*, 6.
- Haeussinger, F. B., **Dresler, T.**, Heinzl, S., Fallgatter, A. J. & Ehlis, A.-C. (2014). Reconstructing functional near-infrared spectroscopy (fNIRS) signals impaired by extra-cranial confounds: An easy-to-use filter method. *Neuroimage*, *95*, 69-79.
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- Kropp, P., **Dresler, T.** & Niederberger, U. (2014). Psychosomatik der Kopfschmerzen [Psychosomatics of headache]. *Der Psychotherapeut*, *59*, 57-71.
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