

REFERENCE

- Aben, B., Stapert, S., & Blokland, A. (2012). About the Distinction between Working Memory and Short-Term Memory. *Frontiers in Psychology*, 3. <https://doi.org/10.3389/fpsyg.2012.00301>
- Acklin, W. T. (2012). *The effects of feedback on working memory capacity* [University of Georgia]. <https://openscholar.uga.edu/record/20691>
- Allison, N. (2020). Students' attention in class: Patterns, perceptions of cause and a tool for measuring classroom quality of life. *Journal of Perspectives in Applied Academic Practice*, 8, 58. <https://doi.org/10.14297/jpaap.v8i2.427>
- Almeida, M. S. O., & da Silva, F. S. C. (2013). A Systematic Review of Game Design Methods and Tools. In J. C. Anacleto, E. W. G. Clua, F. S. C. da Silva, S. Fels, & H. S. Yang (Eds.), *Entertainment Computing – ICEC 2013* (pp. 17–29). Springer. https://doi.org/10.1007/978-3-642-41106-9_3
- Amin, H. U., & Malik, A. (2014). Memory Retention and Recall Process. In *EEG/ERP Analysis: Methods and Applications* (pp. 219–237). <https://doi.org/10.1201/b17605-11>
- Amponsah, S., Van Wyk, M., & Kolugu, M. (2022). Academic Experiences of “Zoom-Fatigue” as a Virtual Streaming Phenomenon During the COVID-19 Pandemic. *International Journal of Web-Based Learning and Teaching Technologies*, 17, 1–17. <https://doi.org/10.4018/IJWLTT.287555>
- Angelopoulou, E., & Drigas, A. (2021). Working memory, attention and their relationship: A theoretical overview. *Research, Society and Development*, 10(5), Article 5. <https://doi.org/10.33448/rsd-v10i5.15288>
- Atmaja, P. W., & Mandyartha, E. P. (2020). Gamification of Assessment Test through Multiple Question Paths to Facilitate Participants' Autonomy and Competence.

- Baddeley, A. D., & Hitch, G. (1974). Working Memory. *Psychology of Learning and Motivation*, 8, 47-89.
- Banerjee, J., Majumdar, D., Pal, M. S., & Majumdar, D. (2011). *Readability, Subjective Preference and Mental Workload Studies on Young Indian Adults for Selection of Optimum Font Type and Size during Onscreen Reading*. 4.
- Bondy, S. (2020). *Gamification: Engagement and Memory Retention against a Standard vs. Competition against Others*.
- Boobalan, S. (2022). *Academic Dishonesty During The COVID-19 Pandemic: Causes and Consequences*.
- Bowman, S., & Lieberoth, A. (2018). *Psychology and Role-Playing Games* (pp. 245–264). <https://doi.org/10.4324/9781315637532-13>
- Carpenter, S. K., Pashler, H., & Vul, E. (2006). What types of learning are enhanced by a cued recall test? *Psychonomic Bulletin & Review*, 13(5), 826–830. <https://doi.org/10.3758/BF03194004>
- Chai, W. J., Abd Hamid, A. I., & Abdullah, J. M. (2018). Working Memory From the Psychological and Neurosciences Perspectives: A Review. *Frontiers in Psychology*, 9. <https://doi.org/10.3389/fpsyg.2018.00401>
- Chun, M. M., & Turk-Browne, N. B. (2007). Interactions between attention and memory. *Current Opinion in Neurobiology*, 17(2), 177–184. <https://doi.org/10.1016/j.conb.2007.03.005>
- Comighud, S. (2022). Factors on Memory Retention: Effect to Students' Academic Performance. *International Journal of Business and Technology*, 9(1), 1–24. <https://doi.org/10.33107/ijbte.2021.6.3.06>
- Copeland, L., & Gedeon, T. (2015). Visual Distractions Effects on Reading in Digital Environments: A Comparison of First and Second English Language Readers.



Proceedings of the Annual Meeting of the Australian Special Interest Group for Computer Human Interaction, 506–516. <https://doi.org/10.1145/2838739.2838762>

Cowan, N. (2008). What are the differences between long-term, short-term, and working memory? *Progress in Brain Research*, 169, 323–338. [https://doi.org/10.1016/S0079-6123\(07\)00020-9](https://doi.org/10.1016/S0079-6123(07)00020-9)

Cowan, N. (2014). Working Memory Underpins Cognitive Development, Learning, and Education. *Educational Psychology Review*, 26(2), 197–223. <https://doi.org/10.1007/s10648-013-9246-y>

Cowan, N. (2022). Working Memory Development: A 50-Year Assessment of Research and Underlying Theories. *Cognition*, 224, 105075. <https://doi.org/10.1016/j.cognition.2022.105075>

Craik, F. I. M., & Lockhart, R. S. (1972). Levels of processing: A framework for memory research. *Journal of Verbal Learning and Verbal Behavior*, 11(6), 671–684. [https://doi.org/10.1016/S0022-5371\(72\)80001-X](https://doi.org/10.1016/S0022-5371(72)80001-X)

Delis, D. C., Freeland, J., Kramer, J. H., & Kaplan, E. (2016). *California Verbal Learning Test* [Dataset]. <https://doi.org/10.1037/t48844-000>

Deterding, S., Dixon, D., Khaled, R., & Nacke, L. (2011). From game design elements to gamefulness: Defining “gamification.” *Proceedings of the 15th International*

- Dey, S. (2021, August 27). Reports Of Cheating At Colleges Soar During The Pandemic. *NPR*. <https://www.npr.org/2021/08/27/1031255390/reports-of-cheating-at-colleges-soar-during-the-pandemic>
- Dmitsak, L. (2007). *Working Memory Span Differences in the use of Encoding Strategies*. https://etd.ohiolink.edu/acprod/odb_etd/ws/send_file/send?accession=marietta1181838212&disposition=inline
- Dondlinger, M. (2007). Educational Video Game Design: A Review of the Literature. *Journal of Applied Educational Technology*, 4.
- Du, J. (2023). *The Impact of Background Noise on Memory Recall: An Independent Measures Design Study with High School Students*. OSF. <https://doi.org/10.31234/osf.io/av6c5>
- Dzulkipli, M. A., & Mustafar, M. F. (2013). The Influence of Colour on Memory Performance: A Review. *The Malaysian Journal of Medical Sciences : MJMS*, 20(2), 3–9.
- Echaide, C., Del Río, D., & Pacios, J. (2019). The differential effect of background music on memory for verbal and visuospatial information. *The Journal of General Psychology*, 146(4), 443–458. <https://doi.org/10.1080/00221309.2019.1602023>
- Franklin, D., & Mewhort, D. (2002). *An Analysis of Immediate Memory: The Free-Recall Task* (pp. 465–479). https://doi.org/10.1007/978-1-4615-0849-6_30
- Howarth, J. (2024, January 29). *How Many Gamers Are There? (New 2024 Statistics)*. Exploding Topics. <https://explodingtopics.com/blog/number-of-gamers>
- Hussain, W., Sohaib, O., Ahmed, A., & Qasim Khan, M. (2011). *Web readability factors affecting users of all ages*. <https://opus.lib.uts.edu.au/handle/10453/117586>
- Jäncke, L. (2008). Music, memory and emotion. *Journal of Biology*, 7(6), 21. <https://doi.org/10.1186/jbiol82>
- Kara. (n.d.). *What Is Game Design? Everything You Need To Know*. Retrieved July 1, 2024, from <https://www.karagamedesign.com/post/what-is-game-design-guide>
- Kefalis, C., Kontostavrou, E. Z., & Drigas, A. (2020). The Effects of Video Games in Memory and Attention. *International Journal of Engineering Pedagogy (iJEP)*, 10(1), Article 1. <https://doi.org/10.3991/ijep.v10i1.11290>
- Kihlstrom, J. F., & Park, L. (2018). *Cognitive Psychology: Overview*. <https://doi.org/10.1016/B978-0-12-809324-5.21702-1>
- Kiss, L., & Linnell, K. J. (2021). The effect of preferred background music on task-focus in sustained attention. *Psychological Research*, 85(6), 2313–2325. <https://doi.org/10.1007/s00426-020-01400-6>
- Lee, J. (2020, November 17). *A Neuropsychological Exploration of Zoom Fatigue*. *Psychiatric Times*. <https://www.psychiatrictimes.com/view/psychological-exploration-zoom-fatigue>



- Lindsay, G. W. (2020). Attention in Psychology, Neuroscience, and Machine Learning. *Frontiers in Computational Neuroscience*, 14, 29. <https://doi.org/10.3389/fncom.2020.00029>
- Liu, C.-Y., & Wu, C.-J. (2023). Effects of working memory and relevant knowledge on reading texts and infographics. *Reading and Writing*, 36(9), 2319–2343. <https://doi.org/10.1007/s11145-022-10368-1>
- Lodge, J. M., & Harrison, W. J. (2019a). Focus: Attention Science: The Role of Attention in Learning in the Digital Age. *The Yale Journal of Biology and Medicine*, 92(1), 21.
- Lodge, J. M., & Harrison, W. J. (2019b). The Role of Attention in Learning in the Digital Age. *The Yale Journal of Biology and Medicine*, 92(1), 21–28.
- Long, N., Kuhl, B., & Chun, M. (2018). *Memory and Attention* (pp. 1–37). <https://doi.org/10.1002/9781119170174.epcn109>
- Lorenc, E. S., Mallett, R., & Lewis-Peacock, J. A. (2021). Distraction in Visual Working Memory: Resistance is Not Futile. *Trends in Cognitive Sciences*, 25(3), 228–239. <https://doi.org/10.1016/j.tics.2020.12.004>
- Lumsden, J., Edwards, E., Lawrence, N., Coyle, D., & Munafò, M. (2016). Gamification of Cognitive Assessment and Cognitive Training: A Systematic Review of

Applications and Efficacy. *JMIR Serious Games*, 4, e11.
<https://doi.org/10.2196/games.5888>

- Mcdermott, K. B. (2002). Memory, Explicit and Implicit. In V. S. Ramachandran (Ed.), *Encyclopedia of the Human Brain* (pp. 773–781). Academic Press.
<https://doi.org/10.1016/B0-12-227210-2/00175-8>
- Moult, M. (2011). Cued Recall. In J. S. Kreutzer, J. DeLuca, & B. Caplan (Eds.), *Encyclopedia of Clinical Neuropsychology* (pp. 751–752). Springer.
https://doi.org/10.1007/978-0-387-79948-3_1116
- Mozer, M. C., & Lindsey, R. V. (2016). Predicting and Improving Memory Retention: Psychological Theory Matters in the Big Data Era. In *Big Data in Cognitive Science*. Psychology Press.
- Mujawar, S., Patil, J., Chaudhari, B., & Saldanha, D. (2021). Memory: Neurobiological mechanisms and assessment. *Industrial Psychiatry Journal*, 30(Suppl 1), S311–S314.
<https://doi.org/10.4103/0972-6748.328839>
- Musliu, A., Berisha, B., Latifi, D., & Peci, D. (2017). The Impact of Music on Memory. *European Journal of Social Sciences Education and Research*, 10, 222.
<https://doi.org/10.26417/ejses.v10i2.p222-227>
- Nagaraj, N. K. (2021). Effect of Auditory Distraction on Working Memory, Attention Switching, and Listening Comprehension. *Audiology Research*, 11(2), 227–243.
<https://doi.org/10.3390/audiolres11020021>
- Oberauer, K. (2019). Working Memory and Attention – A Conceptual Analysis and Review. *Journal of Cognition*, 2(1), 36. <https://doi.org/10.5334/joc.58>
- O’Day, D. H. (2007). The Value of Animations in Biology Teaching: A Study of Long-Term Memory Retention. *CBE—Life Sciences Education*, 6(3), 217–223.
<https://doi.org/10.1187/cbe.07-01-0002>
- Ostertagova, E., & Ostertag, O. (2013). Methodology and Application of One-way ANOVA. *American Journal of Mechanical Engineering*, 1, 256–261.
<https://doi.org/10.12691/ajme-1-7-21>
- Pankok, C., & Kaber, D. (2018). The effect of navigation display clutter on performance and attention allocation in presentation- and simulator-based driving experiments. *Applied Ergonomics*, 69, 136–145. <https://doi.org/10.1016/j.apergo.2018.01.008>
- Prakasa, F. B. P., Samodra, J. E., & Sidhi, T. A. P. (2024). Gamified Distance Learning Application Design for Enhanced Student Engagement and User Experience. *Jurnal Buana Informatika*, 15(01), Article 01. <https://doi.org/10.24002/jbi.v15i1.8737>
- Radvansky, G. A., Doolen, A. C., Pettijohn, K. A., & Ritchey, M. (2022). A new look at memory retention and forgetting. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, 48(11), 1698–1723. <https://doi.org/10.1037/xlm0001110>
- Ritonga, P. S., Octarya, Z., & Rambe, P. (2023). The Influence of Students’ Satisfaction in Online Learning and Its Implications on Students’ Motivation and Learning

- Achievement. *AL-ISHLAH: Jurnal Pendidikan*, 15(2), Article 2. <https://doi.org/10.35445/alishlah.v15i2.2783>
- Roediger, H. L., & Karpicke, J. D. (2006). Test-Enhanced Learning: Taking Memory Tests Improves Long-Term Retention. *Psychological Science*, 17(3), 249–255. <https://doi.org/10.1111/j.1467-9280.2006.01693.x>
- Rosner, T. M., & Milliken, B. (2015). Congruency effects on recognition memory: A context effect. *Canadian Journal of Experimental Psychology / Revue Canadienne de Psychologie Expérimentale*, 69(2), 206–212. <https://doi.org/10.1037/cep0000049>
- Schmidt, J. R. (2016). Context-Specific Proportion Congruency Effects: An Episodic Learning Account and Computational Model. *Frontiers in Psychology*, 7, 1806. <https://doi.org/10.3389/fpsyg.2016.01806>
- Subramanian, K. (2018). *Myth and Mystery of Shrinking Attention Span*. volume 5, 1–06.
- Sukmana, Y., Putri, A., Sulistyaningtyas, T., Suryani, Y., Waskita, D., Sembiring, J., & Rosmansyah, Y. (2024). Gamified Mobile Virtual Laboratory for Indonesian Language Learning. *Computer-Assisted Language Learning Electronic Journal*, 25(1), Article 1.
- Squire, L. R. (2009). Memory and brain systems: 1969-2009. *The Journal of Neuroscience: The Official Journal of the Society for Neuroscience*, 29(41), 12711–12716. <https://doi.org/10.1523/JNEUROSCI.3575-09.2009>
- Storm, B., & Soares, J. (2021). *Memory in the Digital Age*.
- Stroop, J. R. (1935). Studies of interference in serial verbal reactions. *Journal of Experimental Psychology*, 18(6), 643–662. <https://doi.org/10.1037/h0054651>
- Sweller, J. (1988). Cognitive Load During Problem Solving: Effects on Learning. *Cognitive Science*, 12(2), 257–285. https://doi.org/10.1207/s15516709cog1202_4
- Usta Kara, I., & Ersoy, E. G. (2022). A New Exhaustion Emerged with COVID-19 and Digitalization: A Qualitative Study on Zoom Fatigue. *OPUS Toplum Araştırmaları Dergisi*, 19(46), 365–379. <https://doi.org/10.26466/opusjsr.1069072>
- Widhiarso, W., & Ravand, H. (2014). Estimating reliability coefficient for multidimensional measures: A pedagogical illustration. *Review of Psychology*, 21(2), 111–121.
- Zlotnik, G., & Vansintjan, A. (2019). Memory: An Extended Definition. *Frontiers in Psychology*, 10, 2523. <https://doi.org/10.3389/fpsyg.2019.02523>
- Zorko, A., Ivančić Valenko, S., Tomiša, M., Keček, D., & Čerepinko, D. (2017). The impact of the text and background color on the screen reading experience. *Tehnički Glasnik*, 11(3), 78–82.