

WORKING MEMORY



Working Memory

Clemens Wendtner



Working Memory:

Working Memory Robert Logie, Valerie Camos, Nelson Cowan, 2020-11-12 Working memory refers to how we keep track of what we are doing moment to moment throughout our waking lives It allows us to remember what we have just done focus on what we are doing now to solve problems be creative think about what we will be doing in the next few seconds and continually to update in our mind changes around us throughout the day This book brings together in one volume state of the science chapters written by the most productive and well known working memory researchers worldwide Chapters cover different approaches to understanding how working memory works using behavioural experimental techniques neuroimaging computational modelling how it changes from childhood through to healthy old age how it is affected by dementia and brain damage and how it is used in everyday life A unique feature of the book is that each chapter starts with answers to a set of common questions for all authors This allows readers very rapidly to compare key differences in theoretical assumptions and approaches to working memory across chapters and to understand the theoretical context before going on to read each chapter in detail Uniquely all authors consider evidence that is not consistent with their theoretical assumptions whereas it is common for authors to ignore contradictory evidence This approach leads to new interpretations and new hypotheses to test in future research and greatly enhances our understanding of this crucial human ability Written and edited by the leading researchers in the field the book will be an important and influential addition to the memory literature *Working Memory and Academic Learning* Milton J. Dehn, 2011-01-04 Equipping school and child psychologists and neuropsychologists with critical information on the role of working memory in learning and achievement Working Memory and Academic Learning offers guidance on assessment tools interventions and current evidence based best practices Its specific step by step guidance and hands on case studies enables you to identify how working memory relates to academic attainment and how to apply this knowledge in professional practice **Working Memory Capacity** Nelson Cowan, 2012-06-12 The idea of one s memory filling up is a humorous misconception of how memory in general is thought to work it is actually has no capacity limit However the idea of a full brain makes more sense with reference to working memory which is the limited amount of information a person can hold temporarily in an especially accessible form for use in the completion of almost any challenging cognitive task This groundbreaking book explains the evidence supporting Cowan s theoretical proposal about working memory capacity and compares it to competing perspectives Cognitive psychologists profoundly disagree on how working memory is limited whether by the number of units that can be retained and if so what kind of units and how many the types of interfering material the time that has elapsed some combination of these mechanisms or none of them The book assesses these hypotheses and examines explanations of why capacity limits occur including vivid biological cognitive and evolutionary accounts The book concludes with a discussion of the practical importance of capacity limits in daily life Incorporating the latest from the recent surge in research into working memory capacity limits and the remarkable new

insights provided by neuroimaging techniques this book serves as an invaluable resource for all memory researchers and is accessible to a wide range of readers

Improving Working Memory in Learning and Intellectual Disabilities Silvia Lanfranchi, Barbara Carretti, 2016-08-05 The last forty years of research have demonstrated that working memory WM is a key concept for understanding higher order cognition To give an example WM is involved in reading comprehension problem solving and reasoning but also in a number of everyday life activities It has a clear role in the case of atypical development too For instance numerous studies have shown an impairment in WM in individuals with learning disabilities LD or intellectual disabilities ID and several researchers have hypothesized that this can be linked to their difficulties in learning cognition and everyday life The latest challenge in the field concerns the trainability of WM If it is a construct central to our understanding of cognition in typical and atypical development then specific intervention to sustain WM performance might also promote changes in cognitive processes associated with WM The idea that WM can be modified is debated however partly because of the theoretical implications of this view and partly due to the generally contradictory results obtained so far In fact most studies converge in demonstrating specific effects of WM training i e improvements in the trained tasks but few transfer effects to allied cognitive processes are generally reported It is worth noting that any maintenance effects when investigated are even more meagre In addition a number of methodological concerns have been raised in relation to the use of 1 single tasks to assess the effects of a training program 2 WM tasks differing from those used in the training to assess the effects of WM training and 3 passive control groups These and other crucial issues have so far prevented any conclusions from being drawn on the efficacy of WM training Bearing in mind that the opportunity to train WM could have a huge impact in the educational and clinical settings it seems fundamentally important to shed more light on the limits and potential of this line of research The aim of the research discussed here is to generate new evidence on the feasibility of training WM in individuals with LD and ID There are several questions that could be raised in this field For a start can WM be trained in this population Are there some aspects of WM that can be trained more easily than others Can a WM training reduce the impact of LD and ID on learning outcomes and on everyday living What kind of training program is best suited to the promotion of such changes

Working Memory Tracy Packiam Alloway, Ross G. Alloway, 2013-10-28 Working memory the conscious processing of information is increasingly recognized as one of the most important aspects of intelligence This fundamental cognitive skill is deeply connected to a great variety of human experience from our childhood to our old age from our evolutionary past to our digital future In this volume leading psychologists review the latest research on working memory and consider what role it plays in development and over the lifespan It is revealed how a strong working memory is connected with success academically and acquiring expertise and a poor working memory is connected with failure addictive behavior and poor decision making The contributions also show how working memory played a role in our cognitive evolution and how the everyday things we do such as what we eat and how much we sleep can have an impact on how well it functions

Finally the evidence on whether or not working memory training is beneficial is explored This volume is essential reading for students researchers and professionals with an interest in human memory and its improvement including those working in cognitive psychology cognitive neuroscience developmental psychology gerontology education health and clinical psychology

The Working Memory Advantage Tracy Alloway, Ross Alloway, 2014-07-22 Arguing that working memory is a stronger predictor of success than IQ a guide to enhancing memory cites its role in life management skills and various learning disorders while outlining prescriptive exercises for improving brain function

Short-term and Working Memory Susan E. Gathercole, 2001 This special issue ponders a detailed and contemporary analysis of the theoretical underpinnings of short term and working memory Articles focus on short term memory for phonological semantic and spatial material on executive function and on short term forgetting The empirical perspectives include the neuroimaging of short term memory short term memory development and the neuropsychology and neurobiology of memory in addition to laboratory based experimental studies Together these articles identify significant current models and approaches to short term and working memory providing a broad set of perspectives which illustrate the wide impact of working memory on the understanding of human cognition

An Introduction to Applied Cognitive Psychology Anthony Esgate, David Groome, 2005 This book offers a student friendly review of recent research in the application of cognitive methods theories and models to real world scenarios

The Cognitive Neuroscience of Working Memory Naoyuki Osaka, Robert H. Logie, Mark D'Esposito, 2007 Working memory has been one of the most intensively studied systems in cognitive psychology It is only relatively recently however that researchers have been able to study the neural processes might underlie working memory leading to a proliferation of research in this domain The Cognitive Neuroscience of Working Memory brings together leading researchers from around the world to summarize current knowledge of this field and directions for future research An historical opening chapter by Alan Baddeley and Graham Hitch sets the context for the subsequent chapters The scope of the book is exceptionally broad providing a showcase for cutting edge research on all contemporary concepts of working memory using techniques from experimental psychology single cell recording neuropsychology cognitive neuroimaging and computational modelling The Cognitive Neuroscience of Working Memory will be an important reference text for all those seeking an authoritative and comprehensive synthesis of this field

The MIT Encyclopedia of the Cognitive Sciences (MITECS) Robert A. Wilson, Frank C. Keil, 2001-09-04 Since the 1970s the cognitive sciences have offered multidisciplinary ways of understanding the mind and cognition The MIT Encyclopedia of the Cognitive Sciences MITECS is a landmark comprehensive reference work that represents the methodological and theoretical diversity of this changing field At the core of the encyclopedia are 471 concise entries from Acquisition and Adaptationism to Wundt and X bar Theory Each article written by a leading researcher in the field provides an accessible introduction to an important concept in the cognitive sciences as well as references or further readings Six extended essays which collectively serve as a roadmap to the articles provide overviews of

each of six major areas of cognitive science Philosophy Psychology Neurosciences Computational Intelligence Linguistics and Language and Culture Cognition and Evolution For both students and researchers MITECS will be an indispensable guide to the current state of the cognitive sciences

Working Memory in Perspective Jackie Andrade, 2001 Baddeley and Hitch s 1974 Working Memory has been extremely influential this model now faces challenges from opposing theories and conflicting data Experienced researchers explain why this model is successful and look at its weaknesses

Attention Deficit Hyperactivity Disorder David Gozal, Dennis L. Molfese, 2007-10-28 Attention deficit hyperactivity disorder ADHD is a common neurobehavioral disorder affecting 5 10% of children and adolescents and 3% of adults Attention Deficit Hyperactivity Disorder From Genes to Patients aims to provide a comprehensive state of the art overview of the critical aspects of ADHD and hopefully will serve as a quick and up to date reference source for professionals with an interest in ADHD The book is divided into three major areas that follow an historical survey The first group of chapters deals with current theories on the pathophysiology of ADHD and focuses on neurotransmitters and the contributions and validity of animal models The second section emphasizes the evaluation and treatment of patients with ADHD from the day to day approach by the clinical psychologist to the more sophisticated anatomical and functional imaging strategies that have emerged in the last decade In addition chapters dealing with specific impairments such as those pertaining to reading social interaction and working memory are also included for more detailed analysis of these important aspects and their respective contributions to global functioning The third and final section provides an expanded review on the pharmacotherapy of ADHD and the appropriate methods for selection of specific drugs for individual patients based on drug kinetics and gene expression David Gozal MD Dennis L Molfese PhD vii CONTENTS Dedication v Preface vii Contributors xi 1 Historical Aspects of Attention Deficit Hyperactivity Disorder 1 Roscoe A Dykman 2 Scanning the Genome for Attention Deficit Hyperactivity Disorder

Working Memory, Thought, and Action Alan Baddeley, 2007-03-15 Working Memory Thought and Action is the magnum opus of one of the most influential cognitive psychologists of the past 50 years This new volume on the model he created with Graham Hitch discusses the developments that have occurred within the model in the past twenty years and places it within a broader context Working memory is a temporary storage system that underpins our capacity for coherent thought Some 30 years ago Baddeley and Hitch proposed a way of thinking about working memory that has proved to be both valuable and influential in its application to practical problems This book updates the theory discussing both the evidence in its favour and alternative approaches In addition it discusses the implications of the model for understanding social and emotional behaviour concluding with an attempt to place working memory in a broader biological and philosophical context Inside are chapters on the phonological loop the visuo spatial sketchpad the central executive and the episodic buffer There are also chapters on the relevance to working memory of studies of the recency effect of work based on individual differences and of neuroimaging research The broader implications of the concept of working memory are discussed in the chapters on social psychology

anxiety depression consciousness and on the control of action Finally Baddeley discusses the relevance of a concept of working memory to the classic problems of consciousness and free will This new volume from one of the pioneers in memory research will doubtless emulate the success of its predecessor and be a major publication within the psychological literature

The Corsini Encyclopedia of Psychology and Behavioral Science, Volume 4 W. Edward Craighead, Charles B.

Nemeroff, 2002-11-11 A complete reference to the fields of psychology and behavioral science Volume 4 is the final volume in The Corsini Encyclopedia of Psychology and Behavioral Science series Providing psychologists teachers researchers and students with complete reference for over 1 200 topics across four volumes this resource is invaluable for both clinical and research settings Coverage includes conditions assessments scales diagnoses treatments and more including biographies on psychologists of note and psychological organizations from across the globe The Third Edition has been updated to reflect the growing impact of neuroscience and biomedical research providing a highly relevant reference for the highest standard of care

Working Memory in Second Language Acquisition and Processing Zhisheng (Edward) Wen, Mailce Borges

Mota, Arthur McNeill, 2015-05-01 This unique volume offers a comprehensive discussion of essential theoretical and methodological issues concerning the pivotal role of working memory in second language learning and processing The collection opens with a foreword and introductory theoretical chapters written by leading figures in the field of cognitive psychology Following these are three research sections containing chapters providing original data and innovative insights into the dynamic and complex relationships between working memory and specific areas of second language processing instruction performance and development Each section concludes with a commentary which is written by a noted SLA researcher and which charts the course for future research This book provides a fascinating collection of perspectives on the relationship between working memory and second language learning and will appeal to those interested in the integration of cognitive psychology with SLA research

Cambridge Handbook of Psychology, Health and Medicine Susan Ayers, Andrew

Baum, Chris McManus, Stanton Newman, Kenneth Wallston, John Weinman, Robert West, 2007-08-23 Health psychology is a rapidly expanding discipline at the interface of psychology and clinical medicine This new edition is fully reworked and revised offering an entirely up to date comprehensive accessible one stop resource for clinical psychologists mental health professionals and specialists in health related matters There are two new editors Susan Ayers from the University of Sussex and Kenneth Wallston from Vanderbilt University Medical Center The prestigious editorial team and their international interdisciplinary cast of authors have reconceptualised their much acclaimed handbook The book is now in two parts part I covers psychological aspects of health and illness assessments interventions and healthcare practice Part II covers medical matters listed in alphabetical order Among the many new topics added are diet and health ethnicity and health clinical interviewing mood assessment communicating risk medical interviewing diagnostic procedures organ donation IVF MMR HRT sleep disorders skin disorders depression and anxiety disorders

Working Memory and Human Cognition John T. E.

Richardson, Randall W. Engle, Lynn Hasher, Robert H. Logie, Ellen R. Stoltzfus, Rose T. Zacks, 1996-05-16 This new volume in the Counterpoints series compares and contrasts different conceptions of working memory generally recognized as the human cognitive system responsible for temporary storage of information The book includes proponents of several different views Robert Logie discusses the theoretical and empirical utility of separating working memory into an articulatory loop a phonological store and a visuo spatial sketchpad into visual and spatial subsystems Patricia Carpenter provides evidence for a process view of working memory arguing that both task specific processing and general processing capabilities can account for the full range of working memory phenomena She focuses on findings from reading comprehension and memory tasks suggesting that working memory is used to represent the set of skills and strategies necessary for complex tasks while retaining residual capacity for use as a storage buffer Lynn Hasher argues in favor of the new inhibitory model with evidence drawn from the literature on aging and pathology that demonstrates parallels between memory disorders and normal memory functioning Randall Engle addresses the issue of whether working memory resources are required for retrieval of information or whether that task is relatively automatic Engle s empirical studies in turn bear directly on the positions of Carpenter Hasher and Logie As interest in working memory is increasing at a rapid pace an open discussion of the central issues involved is both useful and timely This work serves this purpose for a wide audience of cognitive psychologists and their students

The Development of Working Memory Anik de Ribaupierre, Graham J. Hitch, 1994 This Special Issue of the International Journal of Behavioral Development brings together research on the development of working memory that arises within two quite different approaches

Exploring Working Memory Alan Baddeley, 2017-09-08 In the World Library of Psychologists series international experts present themselves career long collections of what they judge to be their finest pieces extracts from books key articles salient research findings and their major theoretical and practical contributions Alan Baddeley has an international reputation as an eminent scholar and pioneer in the field of human memory and is principally known for the theory of working memory devised with Graham Hitch This model continues to be valuable today in recognising the functions of short term memory This volume includes a specially written introduction by Alan Baddeley which gives an overview of the start of his career and his entry into the field of Psychology Throughout the book he also provides introductions to the selection of works included and contextualises them in relation to changes in the field during this time Exploring Working Memory includes the author s most influential publications on topics including short term memory the distinctions between short and long term memory the theory of working memory the phonological loop the concept of the central executive and the episodic buffer This exceptional selection concludes with an article giving a broad overview of the author s current views on working memory and its relation to other theories in the field Through his outstanding work Alan Baddeley has become known as a world leading expert on human memory Exploring Working Memory is a unique collection which will be of great interest to both students and researchers interested in human memory from psychology backgrounds

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this video accompanies the chm 252 lab nitration of bromobenzene in this video students will get an introduction to the lab as well as the set up for conducting the reaction students should

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for the nitration 4 01 ml of nitric acid 4 00 ml of sulfuric acid and 4 56 ml bromobenzene were used to complete the reaction with these measurements bromobenzene was found to be the limiting reagent since only 4 56 ml of bromobenzene was used the amount of product predicted to be recovered was 8 7533 g

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the aim of the experiment is to determine and study electrophilic aromatic substitution reaction especially nitration of methyl benzoate to give methyl m nitrobenzoate thus determine the weight melting point and percentage yield of the pure methyl m nitrobenzoate abstract

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in this experiment we will carry out the nitration of bromobenzene bromine substituted on an aromatic ring is an ortho para directing group it will direct an incoming electrophile to the ortho and para positions it is also deactivating meaning that its reactions will be slower than the identical reactions of benzene

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section 20711 lab experiment nitration of bromobenzene introduction the chemical reaction of nitration consists of a nitro group being added to or substituted in a molecule nitration can basically be carried out by a mixture of concentrated nitric acid and sulfuric acid this mixture is useful to obtain the active nitronium ion

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1 go to the restroom and wash the affected area with lots of soap and water the soap in the lab is not suitable for this purpose 2 return to the lab and apply mineral oil to the affected area 3 the summary to this warning is not to touch any part of your body while performing this experiment if you must leave the lab for any reason 1

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in the nitration of bromobenzene a mixture of sulfuric acid and nitric acid react with one another nitric acid the weaker of the two acids will serve as base to form nitronium ion bromobenzene will attack the nitronium ion by nucleophilic attack

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nitration of bromobenzene lab report improved essays 731 words 3 pages open document essay sample check writing quality show more this experiment was performed in order to demonstrate the principles of nitration through electrophilic aromatic substitution it also examined the effects of bromine on an aromatic ring ortho para vs meso directing

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then actual is your actual findings yield actual theoretical x 100 what are the possible side reactions of nitration of bromobenzene dinitration can occur at ortho para or at both ortho positions occurs in overheating meta product happens very rarely because bromine is an ortho para director

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the soap in the lab is not suitable for this purpose 2 return to the lab and apply mineral oil to the affected area theory and

explanation of the nitration of bromobenzene if the temperature of the reaction mixture exceeds 60 °C

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the bromine substituent in bromobenzene is an ortho para director the para position is favored due to steric effects in the reaction that takes place in this lab a nitro group is substituted onto bromobenzene at the para position to form 1-bromo-4-nitrobenzene

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study with quizlet and memorize flashcards containing terms like reacting sulfuric and nitric acid together produces the nitronium ion alone nitric acid is not a strong enough electrophile to react with bromobenzene sulfuric acid is added to the nitric acid the reverse rxn can overheat and boil easily includes a claisen adaptor and

nitration of bromobenzene 6 nitration of bromobenzene 10 19 - Oct 01 2023

over 5 minutes slowly pipet this bromobenzene into the icy cold nitration mixture HNO_3 3 h 2 so 4 in the 125 ml flask and stir continue to stir the reaction mixture in the ice bath for 30 minutes do not heat in a new 250 ml erlenmeyer

experiment 11 electrophilic aromatic substitution nitration - Jan 12 2022

on the right the arenium cation has a nitro set with incredibly small 0.6 angstrom bond distances this will result in an optimization failure as the atoms are even close for the programme to accommodate their electrons demonstration of creating the p arenium cation by the nitration of bromobenzene

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lab report 15 nitration of bromobenzene brynn abbott amp katie muerer bea0006 uah ch 336 02 september 21 2022 abstract in this experiment the electrophilic aromatic substitution mechanism was used to obtain 4-nitrobromobenzene and 2-

nitrobromobenzene recrystallization was used to purify 4-nitrobromobenzene

nitration of bromobenzene the purpose of this lab was to - Jul 30 2023

the purpose of this lab was to observe where substituents are added on a benzene ring by way of electrophilic aromatic substitution the electrophilic source in the nitration of bromobenzene comes from a nitronium ion NO_2^+ which acts as the electrophilic species

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nitration of bromobenzene is an electrophilic aromatic substitution reaction the electrophile will be formed from 4.0 ml of nitric acid and 4.0 ml of sulfuric acid and will then react with 4.5 ml of bromobenzene this will produce o-bromonitrobenzene

and p bromonitrobenzene

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experimental spectra reaction a fluorobenzene stock fluorobenzene 1 h 1 h 19 f 19 f 13 c nmr fid for reference only sample 1 h 1 h 19 f 19 f 13 c nmr eas nitration of fluorobenzene crude product not available for submission for credit

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lab writeup the purpose of this lab was to observe where substituents are added on benzene ring way of electrophilic aromatic substitution the electrophilic

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chem 2261 lab 5 nitration of bromobenzene introduction an electrophilic aromatic substitution reaction is an important process that allows for intermediate chemical structures to be used as precursors to pharmaceuticals and other industrially produced chemicals by adding different functional groups into an aromatic ring

lab report nitration of bromobenzene ipl org - Feb 22 2023

lab report 10 nitration of bromobenzene raekwon filmore cm 244 section 40 march 27 2018 introduction for this experiment nitration of bromobenzene was the focus of the lab the benzene is an aromatic compound and when it reacts with wither a mixture of sulfuric acid or nitric acid creates what is known as a nitro group