

Arabic Keyboard Layout

Meikal Mumin,Kees Versteegh

Novel Text Entry and Mobile Interaction Techniques for Arabic Language Users Karim Mohsen Mahmoud El Batran, 2015 Inspired by an observational study of Egyptian Agricultural Census counters, this research aims to improve mobile data entry through better form navigation and improved Arabic text entry. Four improvements were taken into consideration in sequence: (1) minimizing large forms to fit small mobile device screens and easing form navigation process, (2) optimizing Arabic keyboard layout to suit Arabic Language users, (3) introducing Gesture-based Arabic Writing Pads (GBAWPs) that fit small mobile device screens and smart watch surfaces, and (4) enhancing a quantitative prediction model to overcome the defect in modeling interactions on mobile devices. This research shows an improvement of form navigation on mobile devices. The approach is based on computerizing forms and using Panning and Zooming as a navigation technique. In order to do so, an observational study was conducted on the Egyptian Agricultural Census (EAC). However, there were considerable challenges in reducing the size of the paper forms to fit mobile devices and introducing fast navigation technique. It was concluded after computerizing the forms that using the Panning and Zooming technique scored less completion task time and workload in comparison to the tabbed navigation technique. Moreover, this research presents a new design of an Arabic keyboard layout for effective text entry on touch screen mobile phones. The approach is based on Pareto front optimization using three metrics: minimizing finger travel distance in order to maximize speed, minimizing neighboring key error ambiguities in order to maximize the quality of spell correction, and maximizing familiarity for Arabic Language users through approximate alphabetic sorting. In user studies, the new layout showed an observed improvement in typing speed in comparison to a common Arabic layout. Currently, there is an opportunity to research new optimized keyboard designs with less usage experience than QWERTY as in mainstream Western European languages. Pareto optimization can produce high quality keyboards for alphabet based languages that could be beneficial when there is less reluctance to change from QWERTY. Furthermore, this research also illustrates Gesture-based text entry as a method used for mobile devices. Its success and acceptance is critically dependent on the reliability of gesture recognition. The gesture recognition of the GBAWP is accomplished through a sequence of touched points or swipes on the screen. In order to maximize the text area field and minimize the number of keys displayed on the screen, a 12-key GBAWP interface was introduced appearing like a 12-key physical keypad phone. Considering the Arabic letters characteristics, structure, and maximizing speed, a 6-key GBAWP layout based on dot recognition was introduced. After conducting usability tests on both the 12-key and 6-key GBAWP, it was found that users could perform text entry on mobile devices using the 12-key GBAWP with an estimate of 2.9 words-per-minute on average. They also executed text entry tasks on a Sony SmartWatch 2 with an average of 3.2 words-per-minute. This could increase to an estimate of 4.5 words-per-minute on average, on the long term. While entry speeds were slow, users found it easy to use and it supports largely eyes free interaction. Gesture-based technique enables users to perform Arabic text entry on small display mobile devices and watches using both the 12-key and 6-key GBAWP. Finally, this research introduces an enhancement to KLM (Keystroke-Level Model), a quantitative prediction model predicting the user's behaviour in low-level tasks. This was accomplished by extending it with three new operators describing interactions on mobile touchscreen devices and tablets. The approach is based on Fitts' Law to identify a performance measure estimate equation for each of the introduced interactions. Three prototypes were developed to serve as a test environment in validating Fitts equations and estimating the parameters for these interactions. Three-thousand and ninety observations took place with a total of 51 users. The studies confirmed that most interactions fitted well with Fitts' Law. On the other hand, it was noticed that Fitts' Law does not fit well on small mobile device screens when the Index of Difficulty exceeds 4 bits. These results enable developers of mobile device and tablet applications to describe tasks as a sequence of operators used and predict user interaction times prior to creating prototypes.

Universal Access in Human-Computer Interaction: Universal Access to Information and Knowledge Constantine Stephanidis, Margherita Antona, 2014-05-15 The four-volume set LNCS 8513-8516 constitutes the refereed proceedings of the 8th International Conference on Universal Access in Human-Computer Interaction, UAHCI 2014, held as part of the 16th International Conference on Human-Computer Interaction, HCII 2014, held in Heraklion, Crete, Greece in June 2014, jointly with 14 other thematically similar conferences. The total of 1476 papers and 220 posters presented at the HCII 2014 conferences was carefully reviewed and selected from 4766 submissions. These papers address the latest research and development efforts and highlight the human aspects of design and use of computing systems. The papers thoroughly cover the entire field of human-computer interaction, addressing major advances in knowledge and effective use of computers in a variety of application areas. The total of 251 contributions included in the UAHCI proceedings were carefully reviewed and selected for inclusion in this four-volume set. The 65 papers included in this volume are organized in the following topical sections: access to mobile interaction; access to text, documents and media; access to education and learning; access to games and ludic engagement and access to culture.

Introduction to Arabic Natural Language Processing Nizar Y. Habash, 2022-06-01 This book provides system developers and researchers in natural language processing and computational linguistics with the necessary background information for working with the Arabic language. The goal is to introduce Arabic linguistic phenomena and review the state-of-the-art in Arabic processing. The book discusses Arabic script, phonology, orthography, morphology, syntax and semantics, with a final chapter on machine translation issues. The chapter sizes correspond more or less to what is linguistically distinctive about Arabic, with morphology getting the lion's share, followed by Arabic script. No previous knowledge of Arabic is needed. This book is designed for computer scientists and linguists alike. The focus of the book is on Modern Standard Arabic; however, notes on practical issues related to Arabic dialects and languages written in the Arabic script are presented in different chapters. Table of Contents: What is Arabic? / Arabic Script / Arabic Phonology and Orthography / Arabic Morphology / Computational Morphology Tasks / Arabic Syntax / A Note on Arabic Semantics / A Note on Arabic and Machine Translation

Arabic Type-Making in the Machine Age Titus Nemeth, 2017-07-20 Arabic Type-Making in the Machine Age is an in-depth historical study of the evolution of Arabic type under the influence of changing technologies in the twentieth century.

Alarabia: A Communicative Approach to Learning Arabic for Non-Native Speakers Mahmoud Amer, 2010-08-19 This book is meant to assist students learning Arabic with the basics in communication and sentence structure. Because this book focuses on the communicative aspect of using Arabic, the first few chapters will introduce students to expressions in everyday speech in a colloquial Jordanian dialect. In later chapters, however, texts written in Modern Standard Arabic (MSA) are presented and examined.

Intelligent Systems in Science and Information 2014 Kohei Arai, Supriya Kapoor, Rahul Bhatia, 2015-02-13 The book Intelligent Systems in Science and Information 2014 is the carefully edited collection of 25 extended chapters from selected papers in the field of Computational Intelligence that, which received highly recommended feedback during the Science and Information Conference (SAI) 2014 review process. All chapters have gone through substantial extension and consolidation and were subject to another round of rigorous review and additional modification and represent the state of the art of the cutting-edge research and technologies in the related areas.

The Multilingual PC Directory Ian Tresman, 1993

Text Entry Systems I. Scott MacKenzie, Kumiko Tanaka-Ishii, 2010-07-28 Text Entry Systems covers different aspects of text entry systems and offers prospective researchers and developers global guidelines for conducting research on text entry, in terms of design strategy, evaluation methodology, and requirements; a discussion of the history and current state of the art of entry systems; and specific guidelines for designing entry systems for a specific target, depending on devices, modalities, language, and different physical conditions of users. Text entry has never been so important as it is today. This is in large part due to the phenomenal, relatively recent success of mobile computing, text messaging on mobile phones, and the proliferation of small devices like the Blackberry and Palm Pilot. Compared with the recent past, when text entry was primarily through the standard qwerty keyboard, people today use a diverse array of devices with the number and variety of such devices ever increasing. The variety is not just in the devices, but also in the technologies used: entry modalities have become more varied and include speech recognition and synthesis, handwriting recognition, and even eye-tracking using image processing on web-cams. Statistical language modeling has advanced greatly in the past ten years and so therein is potential to facilitate and improve text entry — increasingly, the way people communicate. This book covers different aspects of text entry systems and offers prospective researchers and developers Global guidelines for conducting research on text entry, in terms of

design strategy, evaluation methodology, and requirements History and current state of the art of entry systems, including coverage of recent research topics Specific guidelines for designing entry systems for a specific target, depending on devices, modalities, language, and different physical conditions of users

First Contact with Arabic Language Writing System Abdelghani Azzi,2020-12-15 BOOK DESCRIPTION: Title: FIRST CONTACT with ARABIC LANGUAGE WRITING SYSTEM * Author: Abdelghani Azzi * Year of Publication: 2020 * Number of pages: 100 * Book format: Paperback * Book size: A4 (21 x 29.7 cm) (8.3 x 11.7 inches) TARGETED READERSHIP and USE: English speaking learners. * Complete beginners. * Self-instruction or Classroom learning. * Middle school, college, university. * Adult training. FIRST CONTACT with ARABIC LANGUAGE WRITING SYSTEM (FC-ALWS) deals primarily with the initial hurdle that is common to all language learning projects, the alphabet. However, an alphabet is only a part of the writing system it belongs to. With FC-ALWS the learner will work towards a perfect mastery of the whole Arabic writing system, consequently laying the optimal groundwork for further Arabic language learning projects at any higher level in any field: academic, religious, media, business etc. A book that leaves no one behind: From reading direction to the Arabic definite article, a carefully paced approach adapts to all learning speeds and styles. A book that leaves nothing behind: With phonetic concepts, step-by-step letter writing paths, letter joining diagrams, rhythmic reading, mnemonic devices, write over and write down exercises, punctuation, Arabic fonts and computer keyboard layout, with all this and more, get all the essential and none of the unnecessary. A two-colour typesetting clearly highlights new Arabic terms in either Arabic or English writing. The size of this workbook ensures a comfortable writing environment for the beginner. Discover the beauty of Arabic calligraphy and poetry with several calligraphic designs by the author. This Online Audio Content Enabled (OACE) book, gives the learner access to the translations, transliterations, spelling and pronunciation of all the Arabic textual content. All the audio content is available here: https://lisanuna.net/?page_id=44 Join the Lisānunā Forums and give a social dynamic to your learning experience. Contact the author at Lisanuna.net to get help, inquire or just let him know your thoughts about FC-ALWS and what can be done to improve future editions. GENERAL CONTENT: * Foreword: pages 1-4 * I - Basics and diacritics: pages 7-21 * II - Letter study: pages 25-69 * III - Appendices: 73-82 * IV - Glossary: pages 85-96. KEYWORDS: #Arabic, #phonetics, #language, #writing, #alphabet, #letters, #pronunciation, #Quran, #calligraphy, #audio, #mnemonics, #charts, #beginners, #self-tuition, #self-learning, #classroom, #adult_training, #glossary

The Arabic Script in Africa Meikal Mumin,Kees Versteegh,2014-01-30 The Arabic script in Africa is a collection of sixteen papers on the past and present use of Arabic script to write African languages other than Arabic, discussing the (ethno-)historical, (socio-)linguistic, and in particular grammatological aspects of such writing traditions.

Computers and the Arabic Language Pierre A. MacKay,1990 Based on papers from a Summer Session of the Arab School of Science and Technology, held near Damascus, July 1985.

Speed up your Arabic Sebastian Maisel,2015-03-27 Pronunciation, spelling, the concept of roots and patterns and idiomatic phrases are just some of the areas that cause confusion for students of Arabic. Learning how to avoid the common errors that arise repeatedly in these areas is an essential step in successful language learning. Speed Up Your Arabic is a unique and innovative resource that identifies and explains the most commonly made errors, enabling students to learn from their mistakes and enhance their understanding of the Arabic language. Each of the nine chapters focuses on a grammatical category where English speakers typically make mistakes in Arabic. Each chapter is divided into sections that classify the concepts and errors into subcategories. Full explanations are provided throughout with clear, comprehensive examples and exercises to help the learner gain an in-depth understanding of Arabic grammar and usage. Key features: Carefully selected grammar topics and examples based on the most commonly made errors Comprehensive explanations of the most difficult grammar points help learners gain an in-depth understanding of Arabic grammar and usage. Exercises throughout reinforce learning and link theory to practice A complete answer key making it ideal for self-study A glossary of grammatical terms, an Arabic-English glossary and a bibliography to aid learning Useful drills and listening samples available for free download at <http://www.routledge.com/books/details/9780415660556/> Suitable both for classroom use or self-study, Speed Up Your Arabic is the ideal resource for all intermediate learners of Arabic wishing to refine their language skills.

Your Computer Is on Fire Thomas S. Mullaney,Benjamin Peters,Mar Hicks,Kavita Philip,2021-03-09 Technology scholars declare an emergency: attention must be paid to the inequality, marginalization, and biases woven into our technological systems. This book sounds an alarm: we can no longer afford to be lulled into complacency by narratives of techno-utopianism, or even techno-neutrality. We should not be reassured by such soothing generalities as human error, virtual reality, or the cloud. We need to realize that nothing is virtual: everything that happens online, virtually, or autonomously happens offline first, and often involves human beings whose labor is deliberately kept invisible. Everything is IRL. In Your Computer Is on Fire, technology scholars train a spotlight on the inequality, marginalization, and biases woven into our technological systems.

Among Digitized Manuscripts. Philology, Codicology, Paleography in a Digital World L.W.C. van Lit,2019-10-29 Working with manuscripts has become a digital affair. But, are there downsides to digital photos? And how can you take advantage of the incredible computing power you have literally at your fingertips? Cornelis van Lit explains in detail what happens when manuscript studies meets digital humanities. In Among Digitized Manuscripts you will learn why it is important to include a note on the photo quality in your codicological description, how to draw, collect, and publish glyphs of paleographic interest, what standards (such as TEI and IIIF) to abide by when transcribing a text, how to write custom software for image recognition, and much more. The leading principle is that learning a little about computers will already be of great benefit.

Advanced BlackBerry Development Chris King,2010-02-15 BlackBerry devices and applications are selling by the millions. As a BlackBerry developer, you need an advanced skill set to successfully exploit the most compelling features of the platform. This book will help you develop that skill set and teach you how to create the most sophisticated BlackBerry programs possible. With Advanced BlackBerry Development, you'll learn you how to take advantage of BlackBerry media capabilities, including the camera and video playback. The book also shows you how to send and receive text and multimedia messages, use powerful cryptography libraries, and connect with the user's personal and business contacts and calendar. Not only will you be learning how to use these application programming interfaces, but you'll also be building a program that takes full advantage of them: a wireless media-sharing app. Each chapter's lessons will be applied by enhancing the app from a prototype to a fully polished program. Along the way, yo'll learn how to differentiate your product from other downloads by fully integrating with the operating system. Your app will run in the browser and within device menus, just like software that comes with the phone. Once you are comfortable with writing apps, this book will show you how to take them to the next level. You'll learn how to move from running on one phone to running on all phones, and from one country to all countries. You'll additionally learn how to support your users with updates. No other resource compares for mastering the techniques needed for expert development on this mobile platform.

Arabisation British Computer Society. Developing Countries Specialist Group,1988

Handbook of Research on Digital Crime, Cyberspace Security, and Information Assurance Cruz-Cunha, Maria Manuela,2014-07-31 In our hyper-connected digital world, cybercrime prevails as a major threat to online security and safety. New developments in digital forensics tools and an understanding of current criminal activities can greatly assist in minimizing attacks on individuals, organizations, and society as a whole. The Handbook of Research on Digital Crime, Cyberspace Security, and Information Assurance combines the most recent developments in data protection and information communication technology (ICT) law with research surrounding current criminal behaviors in the digital sphere. Bridging research and practical application, this comprehensive reference source is ideally designed for use by investigators, computer forensics practitioners, and experts in ICT law, as well as academicians in the fields of information security and criminal science.

Windows 8 Bible Jim Boyce,Rob Tidrow,2012-10-10 The first and last word on the feature-packed new Windows 8 Windows 8 is an exciting new version of Microsoft's flagship operating system and it's packed with exciting new features. From the new Windows 82032s lock screen and the new Internet Explorer to a built-in PDF reader and new user interface, Windows 8 is not only a replacement for Windows 7 but a serious OS for today's tablet and touchscreen device users. And what better way to get the very most out of it than with this equally impressive new book from Microsoft experts? Over 900 pages packed with tips, instruction, and techniques help you hit the ground running with Windows 8. Provides complete how-to coverage of

Windows 8 in a thoroughly redesigned and revised new Bible from an expert author team Covers all the exciting new Windows 8 features, including the Windows 82032s lock screen, Internet Explorer Immersive, Modern Reader, a new interface, and more Helps new and inexperienced users, as well as those upgrading from Windows 7, Windows Vista, or Windows XP Also explores new connections to cloud applications and data, distributed file system replication, and improvements to branch cache Get the very most out of Windows 8, no matter what device you run it on, with Windows 8 Bible.

Digital Samaritans Jim Ridolfo,2015-09-16 *Digital Samaritans* explores rhetorical delivery and cultural sovereignty in the digital humanities. The exigence for the book is rooted in a practical digital humanities project based on the digitization of manuscripts in diaspora for the Samaritan community, the smallest religious/ethnic group of 770 Samaritans split between Mount Gerizim in the Palestinian Authority and in Holon, Israel. Based on interviews with members of the Samaritan community and archival research, *Digital Samaritans* explores what some Samaritans want from their diaspora of manuscripts, and how their rhetorical goals and objectives relate to the contemporary existential and rhetorical situation of the Samaritans as a living, breathing people. How does the circulation of Samaritan manuscripts, especially in digital environments, relate to their rhetorical circumstances and future goals and objectives to communicate their unique cultural history and religious identity to their neighbors and the world? *Digital Samaritans* takes up these questions and more as it presents a case for collaboration and engaged scholarship situated at the intersection of rhetorical studies and the digital humanities.

Computers and Translation Harold Somers,2003-05-28 This volume is about computers and translation. It is not, however, a Computer Science book, nor does it have much to say about Translation Theory. Rather it is a book for translators and other professional linguists (technical writers, bilingual secretaries, language teachers even), which aims at clarifying, explaining and exemplifying the impact that computers have had and are having on their profession. It is about Machine Translation (MT), but it is also about Computer-Aided (or -Assisted) Translation (CAT), computer-based resources for translators, the past, present and future of translation and the computer. The editor and main contributor, Harold Somers, is Professor of Language Engineering at UMIST (Manchester). With over 25 years’ experience in the field both as a researcher and educator, Somers is editor of one of the field’s premier journals, and has written extensively on the subject, including the field’s most widely quoted textbook on MT, now out of print and somewhat out of date. The current volume aims to provide an accessible yet not overwhelmingly technical book aimed primarily at translators and other users of CAT software.

The Enigmatic Realm of **Arabic Keyboard Layout**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing short of extraordinary. Within the captivating pages of **Arabic Keyboard Layout** a literary masterpiece penned with a renowned author, readers embark on a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book is core themes, assess its distinct writing style, and delve into its lasting impact on the hearts and minds of people who partake in its reading experience.

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