

DREAM: Document Reconstruction via End-to-end Autoregressive Model

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Abstract

Document reconstruction constitutes a significant facet of document analysis and recognition, a field that has been progressively accruing interest within the scholarly community. A multitude of these researchers employ an array of document understanding models to generate predictions on distinct subtasks, subsequently integrating their results into a holistic document reconstruction format via heuristic principles. Nevertheless, these multi-stage methodologies are hindered by the phenomenon of error propagation, resulting in suboptimal performance. Furthermore, contemporary studies utilize generative models to extract the logical sequence of plain text, tables and mathematical expressions in an end-to-end process. However, this approach is deficient in preserving the information related to element layouts, which are vital for document reconstruction. To surmount these aforementioned limitations, we in this paper present an innovative autoregressive model specifically designed for document reconstruction, referred to as Document Reconstruction via End-to-end Autoregressive Model (DREAM). DREAM transmutes the text image into a sequence of document reconstruction in a comprehensive, end-to-end process, encapsulating a broader spectrum of document element information. In addition, we establish a standardized definition of the document reconstruction task, and introduce a novel Document Similarity Metric (DSM) and DocRecTK dataset for assessing the performance of the task. Empirical results substantiate that our methodology attains unparalleled performance in the realm of document reconstruction. Furthermore, the results on a variety of subtasks, encompassing document layout analysis, text recognition, table structure recognition, formula recognition and reading order detection, indicate that our model is competitive and compatible with various tasks.

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1. Introduction



Figure 1. Illustration of motivation of the proposed DREAM. (a) The multi-stage based approach, utilizes a variety of document understanding models to predict distinct document elements, subsequently amalgamating them into a comprehensive document reconstruction format via heuristic rules. However, this method is constrained by the propagation of performance errors. (b) The end-to-end based approach, which employs generative models to acquire the sequence of plain text, tables and mathematical expressions, yet falls short in preserving the physical information pertaining to layouts and performs not satisfactorily enough on the logical reconstruction result. (c) Our proposed DREAM, which exhibits the capability to restore an extensive range of document contents in a more holistic manner, encompasses physical and logical reconstruction information.

Document reconstruction is an integral research of document understanding, which harbors significant potential to provide richer structured information for Large Language

Dream Document

John Scott



Dream Document:

The Esoteric Dream Book Dayna Winters, Patricia Gardner, Angela Kaufman, 2014-08-28 Everyone dreams and the dreaming mind speaks in the language of evocative symbols Now you can interpret dream symbols for the purposes of life enhancement and spiritual growth through this comprehensive guide to esoteric dreaming Become more open to the messages from the subconscious mind to find solutions to personal problems or gain insight into day to day events Learn how to remember your dreams and how to document them clearly for later interpretation This book is an in depth guide to understanding the consequential and multilayered meanings of mundane and arcane dream symbols and provides rituals spells and magickal correspondences ideal for dream work

Dreams Stephanie Jean Clement, 2000-09 A guide to interpreting dreams

Daily Life through World History in Primary Documents Rebecca Bennette, David M. Borgmeyer, David Matz, Lawrence Morris, 2008-12-30 Who did the ancient Greeks describe as the world's best athlete What does the Koran say about women's rights How has the digital revolution changed life in the modern age From the law courts of ancient Iraq to bloody Civil War battlefields explore the daily lives of people from major world cultures throughout history as presented in their own words Bringing useful and engaging material into world history classrooms this rich collection of historical documents and illustrations provides insight into major cultures from all continents Hundreds of thematically organized annotated primary documents and over 100 images introduce aspects of daily life throughout the world including domestic life economics intellectual life material life politics religion and recreation from antiquity to the present Document selections are guided by the National Standards for World History providing a direct tie to the curriculum Analytical introductions explain the key features and background of each document and create links between documents to illustrate the interrelationship of thoughts and customs across time and cultures

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Autonomous Village Vinod Ranaveni,2023-10-30 This is a story of a person who lives in a village where he helps and supports his village people One day he met with a stranger who changes his understanding towards life through his experiences and stories During this process the village person queries are addressed by the stranger in practical ways so that he can live and experience present moment Once he observes understands and experiences life then the journey starts to make an Village into Autonomous Village which will fulfill the dreams of those who dream but stuck with one or another reason to make their dreams come true

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The Book of Dreams and Ghosts Andrew Lang,1899

Mad Travelers Ian Hacking,2002 Reflections on the Reality of transient mental illness This text uses the case of Albert Dadas the first diagnosed mad traveller to weigh the legitimacy of cultural versus physical symptoms in the diagnosis of psychiatric disorders The author argues that psychological symptoms find niches where transient illnesses flourish

Documentary Research John Scott,2006

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Visions and Clairvoyant Night Dreams with Facts on Somnambulism and Pre-vision Joseph Darby, 1892 *House documents*, 1896

Senate Documents USA. Congress. Senate, 1898 *Documents* Boston (Mass.). School Committee, 1920

City Documents Boston (Mass.). City Council, 1920 [International Documentary](#), 2003 *Role Differentiation in Chinese Higher Education* Xiaoxin Du, 2020-11-30 This book examines tensions between the Chinese state and Chinese universities It looks at the state s demand for political socialization as a restriction on university autonomy and the university s promotion of academic development through promoting academic freedom and fostering critical thinkers using Jour University in PRC as a case study The book focuses on the dynamics and complexity of the interplay between the state universities faculty staff and students in the process of socialization through political education and academic affairs Theories on political socialization and higher education guide this study As universities socio political task of imbuing students with a certain type of ideology coexists with their role of promoting university autonomy examining China s higher education system provides important insights as different players interaction These present a dynamic picture of role differentiation as a strategy to cope with a politically restricted autonomy which challenges some common stereotypes that have been put on Chinese universities within the global community *Documents Concerning the Life and Character of Emanuel Swedenborg* : R. L. Tafel, 1877

Pursuing the American Dream Calvin C. Jillson, 2004 Marked by continuity renewal and expansion the image of the Dream Jillson contends has been remarkably constant since well before the American Revolution an image of a nation offering a better chance for prosperity than any other His book reveals how that Dream has motivated our nation s leaders and common citizens to move sometimes grudgingly toward a more open diverse and genuinely competitive society *House Documents* USA Congress House of Representatives, 1898

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down your answers and calculations on a piece of paper

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