

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

Xin Li<sup>\*</sup> Mingming Gong<sup>\*</sup> Yanfei Wu<sup>\*</sup> Jianxin Dai Antai Guo Xinghua Jiang  
Haoyu Cao Yinsong Liu Deqiang Jiang Ning Sun  
Tencent YouTu Lab

{fujikoll, rismangong, narcowu, willdai, ankerqoo, clarkjiang, rechycao, jasonyeliu, dqiangjiang, winfredsun}@tencent.com

## 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.

<sup>\*</sup>Equal contribution. <sup>†</sup>Contact person.

## 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

**J Spring**



## **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 Volume 1 The Ancient World covers the major civilizations from ancient Sumeria 3000 BCE through the fall of Imperial Rome 476 CE including Egypt Greece and Israel and also covers China and India during the births of Hinduism Buddhism and Confucianism Volume 2 The Middle Ages and Renaissance covers the development of European culture from the Germanic migrations of the fifth century CE through the university movement of the late middle ages and the sixteenth century growth of global empires and the collapse of the kingship in seventeenth century England Also covered are the Native empires of the Americas and the rise of Islamic culture throughout the Middle East and Africa Volume 3 The Modern World spans the period from the Enlightenment through modern Internet era and global economy including the founding of the United States colonial and post colonial life in Latin America and Africa and the growth of international cultures and new economies in Asia Document sources include The code of Hammurabi The Manu Smriti Seneca's On Mercy Josephus's Jewish Antiquities The Koran Dante's Divine Comedy Bernal Diaz del Castillo's The True History of the Conquest of Mexico The Travels of Marco Polo Brahmagupta's principles of mathematics and astronomy The Mayan Popul Vuh the diary of a Southern plantation wife during the Civil War and letters

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**Documents concerning the life and character of Emanuel Swedenborg, collected, tr. and annotated by R.L. Tafel. 2 vols. [in 3].** Rudolph Leonhard Tafel,1877 *The Jesuit Relations and Allied Documents* Jesuits,1899 Establishment of Jesuit missions Abenaki Quebec Montreal Huron Iroquois Ottawa and Louisiana *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

**Intrinsic Motivation** Stefan Falk,2023-02-07 Intrinsic motivation doing a thing for its inherent satisfaction rather than external rewards is the key to success and satisfaction in any endeavor A legendary performance coach shares his simple proven and fun methods for cultivating and keeping it To be productive and optimistic about our personal and professional lives we want to feel that we can understand and influence what is happening around us today and that we have a reliable insight into what will happen tomorrow We also require a rich supportive and secure social life As more of us work remotely and the frequency of our in person contact decreases this desire for connection and trust has only become more important the social drive is so strong that our body temperature drops when we feel excluded To satisfy our psychological needs in today s professional world we must pursue them consciously and purposefully but unfortunately most of us don t know how to do so effectively Instead we waste our time on ineffective coping strategies that often make us feel even worse The true solution to becoming happier healthier and more productive is to become intrinsically motivated To stop wasting time on activities that don t really contribute to our careers or our company s success eschew the dog eat dog culture of modern business and find ways to take pleasure in what we do and to do it well Intrinsic Motivation by Stefan Falk is a comprehensive guide to achieving this goal Filled with methods and techniques he developed at McKinsey Company and through 25 years as a senior executive and performance coach working with elite athletes top executives special operators in the armed forces and leaders from all walks of life this book will revolutionize your approach to success at work and beyond *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 *Day*

*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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