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Evolution of Communication: A Comparative Study from Cave Paintings to Emojies

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Abstract: Communication has always been an essential part of human existence, which makes us different from other creatures. This research paper explores the evolution of communication from its primitive forms in ancient times with a comparative analysis of communication in the modern age. The researcher traced the evolution of communication, starting from cave paintings and smoke signals and moving to advanced tools such as writing systems, printing, and communication in the digital era. This study highlights the significant milestones in the history of human communication and its evolution. In the ancient era, when communication was static, the method of giving messages and information that people used changed the passage of time and the con conversion. The paper focuses not only on evolution but also on the comparison of old and new methods and how these are similar in the modern age. It underlines the transition of communication from the static form, localized methods, to the dynamic and globalized forms of communication, advancing to the pervasive use of emojis. The analysis in this paper draws a comparison between communication in the ancient era and the techniques used for different messages and communication in modern times, such as digital expressions, focusing on the continuous expedition for effective and efficient ways to share information and emotions.

Key Words: Communication, Evolution, Cave Paintings, Writing, Printing Press, Digital Communication, Emojies, Technological Advancements

Introduction

Human civilization's cornerstone is communication, which has played a key role in the development and progress of societal bonds over time. Without it, the exchange of ideas, knowledge and emotions would be impossible, thus isolating human beings from one another. The word "communication" comes from the Latin words communis, which means common, and communicare, meaning to make something common. In this regard, communication is about sharing or exchanging information, thoughts or feelings between people. It is through communication that individuals become connected to each other, communities are built, and cultures are developed. This paper aims to provide an inclusive comparative analysis of the history of communication, tracing its evolution from primitive methodologies up to modern-day digital forms. The research seeks to find out how communication has changed during this period, thereby meeting changing societies' needs by looking at this progression.

This is the story of how men first endeavoured to pass messages between themselves using primitive means. In lieu of a formal language or writing system, ancient peoples employed nonverbal methods such as cave depictions, signs, and signals. The cave paintings are some of the oldest known forms of communication, which can be dated back tens of thousands of years ago. These images often portray animals, including humans and hunting scenes, and were not mere expressions of art; rather, they told stories, passed information, and maybe even religious beliefs were transferred. Similarly, smoke signals have been used by different cultures all over the world to carry messages across long distances. Although

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simple, these signals were efficient in relaying warnings, organizing group activities or indicating the presence of other tribes. These early practices demonstrate the basic human urge to communicate and the resourcefulness with which our ancestors made efforts to surmount their surroundings' limitations to communication systems.

Methods of communication became more elaborate as societies became more complex. The use of written language was a major breakthrough in the history of communication as it allowed for the recording and preservation of information from one generation to another. The world's oldest writing system, cuneiform, emerged in Mesopotamia about 3200 BCE. It involved wedge-shaped marks on clay tablets used to represent objects, sounds or ideas that allowed various forms of recording, such as trade transactions and legal codes. Similarly, ancient Egyptians developed hieroglyphics, a complicated language consisting of pictures that transmitted both sounds and meanings. Hence, writing was not only the most precise way people could communicate but also helped catalyze civilization by aiding governments with larger territories to manage more populated communities effectively.

The next major step in communication to a larger body of people came from the printing press, which was invented by Johannes Gutenberg in the 15th century. Powered by this innovation, information was given widespread access and duplication for the first time. For the first time, books, as well as pamphlets and newspapers, could now be printed easily in their hundreds of thousands of copies and distributed for free or at very low prices all over Europe. The printing press, critical to the development of the Renaissance and Reformation (and even eventually viewed as key in triggering a chain reaction that led from there through into modern science to bring de novo differing ideas to challenge existing orthodoxies—an extended metaphor for innovating new algorithms beyond established regimes? It was also the dawn of an information age, where it became faster and easier to communicate than ever in history.

Today, the technological strides that have become ubiquitous in our communication landscape make those changes seem quaint. The telegraph in the 19th century was an invention that made instantaneous communication over long distances possible and which paved the way for further inventions such as radio, telephone, and TV. Their influence in communication is followed closely by the digital age. The past few decades have seen the rapid development of a global web that connects one person from afar, thanks in part to the internet and social media networks. Of course, in a world that is digital and visual (emoji, gif & meme culture will be alive for some time yet), the way we communicate with one another continues to expand.

Communication has come a long way from its days of cave paintings and smoke signals; digital emojis, coming into existence in the last couple of decades like never seen before etched in time through instant messaging, contrast this example against other such mass communications given modern appeal. In turn, each stage in this progression is a reaction to the changing needs and complexities of that time. While ancient man used simple techniques to move beyond the limitations of his environment, today, technology allows us all to stay connected and involved with a global community. However, identifying this history is not only a tribute to the potential behaviours of humans, but it also underscores just how important communication has always been as an immaterial force in determining what our universe actually looks like. Both of these examples show that communication methods will continue to evolve as we advance through time and technology, yet they also illustrate how the need for human interaction is a constant reminder.

Literature Review

Early Communication Methods

In the olden times, people used to carve on the pillars to communicate with one another. It was the static form of conveying messages because the person had to come from a long distance to the specific place where the pillar was used for conveying the information.

Approximately 35000 years ago, humans used different forms of communication to convey their messages and information and share knowledge. Cave paintings represent one of the initial forms of visual and static communication. The remains of these paintings are found in locations such as Spain, where human figures, animals and different tools were created. This provides insights into the lives and thoughts



of the early communities (Clottes, <u>2008</u>). Another form of static communication used in early ages was drawing on pillars about different information. Smoke signals were also used as a means of communication; this method was used for long-distance communication, especially in situations of danger of celebration. (Schmandt-Besserat, <u>1996</u>).

In the early stages, the communication forms were mostly static, which means for giving a message or information, both of the parties involved should be present at the place where the visuals of the information of news are drawn.

Development of Writing Systems

Writing, as a phenomenon, is considered to be among the most significant inventions that have ever occurred in human history; it revolutionized communication and documentation. Around 3500 B.C.E., the Sumerians of Mesopotamia began this evolution by creating the cuneiform – a system which utilized wedge-shaped marks that were incised to great precision into clay tablets. This invention was first used in bookkeeping to write records of business transactions and events for understanding; this was so because the Sumerians required an efficient method of storing information (Kramer, 1963). This means communication also had to change, try as it might, to remain a constant throughout the evolutions of civilizations. By 1600 B.C.E., the Chinese adopted still a new and progressive writing system that inscribed the characters on tortoise shells, which helped to establish ancient China's tape of literature and bureaucracy (Bagley, 2004). The importance of these early writing systems is further brought out by the emergence of the first recorded literature in the form of 'The Epic of Gilgamesh' around 2150 BC, which was written in Akkadian and inscribed on clay tablets by the Sumerians. All in all, these stages suggest how far writing propelled the emergence of civilization and how different societies used it for recalling their histories, expressing ideas, and passing along knowledge from one generation to the next.

Evolution of Alphabetic Systems

The history of writing systems is another evidence of the incessant progress made by man in the field of invention of ways of conveying information. From 1900 to 1700 B.C.E., the people who spoke Semitic used Egyptian hieroglyphs to develop the Proto–Sinaitic script, which was important in the development of the modern alphabet. Egyptian hieroglyphs, which originated in 3200 B.C.E., were very complex symbols that were mostly used in monumental writing on pyramids, and they depicted both the words and phonetic sounds in English (Darnell, 2005). This was an early script that was used before the compact alphabetic script forms that are commonly used today were developed.

Printing Revolution

The printing revolution was an advancement in communication technology that brought another revolution. The Chinese invented woodblock printing about 600 A. D., a technique that made it possible to reproduce text as well as pictures (Tsien, 1985). Movable type was later developed in the 11th century by Bi Sheng, which added to the effectiveness of the print process (Tsien, 1985). The most revolutionary invention that took place was in the middle of the 15th century when Johannes Gutenberg invented the mechanical movable type of printing. This innovation enhanced the mass production of texts, thereby making books more available in society and enhancing the dissemination of knowledge (Febvre & Martin, 1997).

Digital Communication Era

In digital communication, the ARPANET was introduced in 1969 as a means of using computers to communicate with other computers in the framework of networking, which is used today (Hafner and Lyon, 1996). The World Wide Web, which was developed by Tim Berners-Lee in 1989, paved the way for effective worldwide communication through the creation of easy access to information and content (Berners-Lee & Fischetti, 1999). The introduction of emojis in 1999 by the Japanese firm NTT DO CO MO created a new dimension of communication practices on the web, enabling users to send emotions and even periods using wonderful graphic symbols (Pereira, 2016). Altogether, these trends represent an impressive evolution of the process that can be described as the dialogue of technologies and people,

indicating the constant and inherent evolution starting from the usage of alphabets on the walls to modern forms of representation of thoughts and ideas.

Research Methodology

This research uses the historical method with a comparative analysis to examine the history of communication with a literature review considering contemporary communication in a digital society. A main source of data collection also includes secondary sources and involves a broad range of historiographies, articles, websites, and others. These sources are very useful in charting the evolution of communicational practices and tools through periods of time. Chronicling the information, research effectively categorizes information to highlight the advancement of communication in a chronological manner. This structured approach allows us to examine how each of the major stages of the development of communication occurred and how the present, highly incorporated digital means of communication evolved. This research also provides comparisons of the ancients' communication, painting, signalling (smoke and similar), and writing to that of today's text messaging, social media, and emojis. It is normally possible to compare communication patterns across time about the functioning of a particular organizational structure and find new trends or stable patterns. While the methods discussed here date from both the past and the present, the work is a good example of how, along with the advancement in technology, people have always felt the need to share thoughts and feelings in both words and pictures. In this way, using a rather intensive and methodologically sound theoretical examination, the study reveals the sustained dynamic nature of communication and the themes and features to which these dynamics have given rise over the course of history.

Theoretical Framework

It is built on Harold Innis's theory about media evolution, which was outlined in 1951 and goes a long way in explaining the development of communication technology. Referring to this concept, the rise and development of communication mediums are assumed by Innis to be a direct reaction to the new wants and complications of society. From a functional perspective, there are a range of media that improve efficiency and communication steps due to the minimization of shortcomings of previous media. This theoretical lens is helpful in explaining the changes in communication technologies from the earliest means of communication up to the present sophisticated means of communication.

Applying Innis's theorizing, it is possible to better understand the change from the fixed and place-bound media, such as cave drawings and smoke signals. Using this structure, the paper looks at how subsequent evolutions were built upon prior developments, including the physical media of tortoise shells for inscriptions and tablet forms of cuneiform. These early methods were primitive, but because of the growing demand and varied social problems, new techniques were developed. The study also follows up on the development of text messaging, social media, and the use of emojis, which are the newest in the evolution of communication.

Media evolution theory underlines the fact of sequences in the process of the invention of different technologies to show how each innovation forms more complex and extensive communication equipment. It also emphasizes how people have always sought to develop the means of transmitting data and feelings better, to employ the Jamesian word, and to reach others. In this light, the present study employing Innis's framework is able to present a synoptic historical approach to the study of communication, the interrelations of historic and post-historic technologies and the ability to compare the present and different time periods to formulate an understanding of communication in history and its evolution.

Findings

A comparison of the various kinds of communication during the past and the present gives out the fact that, while major improvements have been actualized, issues remain recurrent.

Pictographs and Emojis

The analysis of the transformation of methods of communication from a historical perspective reveals some distinct features and similar patterns. For instance, the term 'picture writing', as well as modern



kinds of picture writing such as emojis, can be said to combine the historical and current writing styles. Cave paintings, done many centuries before, have illustrated events seen in day-to-day life, animals, and events seen as crucial to society, and would be in a form of communication that would be understood by the people who come across them. These were fixed and largely painted on places, but they carried significant information in them. However, modern emojis work in a similar manner as they performatively develop a fast, easily recognizable means of conveying emotions and/or connotations in digital communication. Unlike art found on the wall of a cave, emojis are alive, and one can convey them within a second around the world since they denote modern developments in the field of communication technology.

Daily Activity Sharing

This change in daily activity sharing is a pivotal change from the ancient and prehistoric ways of human civilization. Through the Paleolithic period, groups of early humans narrated their experiences and perhaps documented them as well around fire-lit caves. Sitting around the fire and sharing their daily activities through drawing on the caves, those are still present in the form of tools, animals, and human parts. This has now taken a modern concept, which is seen in social networks like Facebook, where people post topics, pictures and videos of the day's happenings. Whereas ancestors could draw on the caves to narrate their stories, new technologies allow people to blog/read/work their lives and publish them online for readers across the world, amplifying the personal narratives greatly.

Clay tablets and Modern Tablets (i.e. I-pad)

Cuneiform tablets were used by the Sumerians to communicate messages or even send messages and information from one area to another by drawing the concepts over it. It was a system of making shapes look like wedges on a clay tablet to convey messages. This type of communication was developed by Sumerians in Mesopotamia, modern-day southern Iraq. Sumerians are known as one of the world's first civilizations, along with ancient Egypt and the Indus Valley.

The cuneiform tablet (clay tablet) can be compared with today's digital touchpads such as I-pad. Through modern technology, we send messages and information to all over the world. A clay tablet contains shapes that represent a specific concept of information from one person to another or from one community to another, while in the digital age, we send shapes in the form of emojis to one another through a digital tablet.

Writing Systems and Digital Text

Another improvement in communication has, therefore, been expressed in the appearance of writing systems. Visual symbolic writing – which includes Sumerian cuneiform and inscriptions on tortoise shells, offered more formal and mobile ways of passing information. Of course, such a transition from carving or painting something on an object to writing text means a considerable step forward in communication augmenting. At the present time, these forms are continued and developed by modern means of communication – short messages, e-mail, posts, etc., which make it possible to distribute texts quickly and on a large scale. The shift from concrete writing on a surface to writing in electronic media is satisfying the fact that technology improves the ways of transferring messages by expanding the area and time of its delivery, alluding to the progressive manner of evolving technology in conveying knowledge.

Smoke Signals and Electronic Alerts

In the distinction between ancient and modern means of communication, one can see a number of features of progress and the preservation of similar topics. Smoke signals like those used by the ancients also have the same functionality as text alerts, such as messages or even push notifications. Both methods are intended for the delivery of emergency messages within spaces of varying distances. However, the use of smoke signals was somewhat limited as it depended on the visibility and the weather pattern. Still, electronic alerts are used for instant message dissemination, which targets any person using an Internet connection, regardless of the distance, as making great strides in solving the problem of physically transmitted messages.

Preservation of Knowledge

Knowledge, like skills, has also moved from passive kinds of preservation to active kinds. Early people used rocks and caves to etch down their skills and expose themselves to what was happening around them, the results of which were permanent imprints. These early techniques were useful in passing on knowledge to the next generation in a format that was set. Contemporary societies, however, embrace unique forms of storage and presentation of information through blogs, online archives and even digital databases. These digital documents are far easier to edit, can be updated as often as required, and are instantly shareable and disseminated within the organization and beyond.

Conclusion

In summary, the use of means to communicate throughout the age, from preserved ancient modes to modern modes, is dynamic in nature and has expanded globally.

In social media, nowadays days, it is noticed that people use emojis when typing text. Sometimes, the conversation is in emoji form. If we compare the modern era to the ancient era, we are using the same things and the same signs for communicating but in a modern and technological way. Let's have a look so we can compare the day-to-day sharing of activities by the caveman to social media, for example, Facebook, where we used to share our daily routine activities. Preserving their knowledge of the rocks and caves by painting or making shapes in the ancient era can be compared with blogging in the modern era. The shapes on a clay tablet have been converted into emojis on an iPad.

Communication started with making shapes on caves, pillars, rocks, and ground to express feelings and emotions or share thoughts, which has been reached to shape for the same purpose in the form of emojis.

This evolutionary movement reflects people's continuous search for a better means of exchanging knowledge and feelings. However, the essence of people's intercommunicativeness has not changed at all, even with all the latest technologies. The resemblances between the early signs and the emojis, as well as the gatherings in the caves and in the social networks, prove that people need to perceive and express themselves through images and words. These comparisons serve to assert that although we have come a long way in the means of communication and in the actual technologies used, the need is still to convey, to receive, and, in particular, to understand.

Further Research Areas

This study covers the evolution of communication from an overall perspective, where the researcher did a comparative analysis of old and modern forms of communication. Some areas need more research if we narrow it down to one form. Future studies can be about how different cultures developed communication methods in their communities and what the impact of new inventions in the means of communication is on those specific societies. Further research can be done on the psychological effects of various communication mediums and their environmental impact. This paper has a comparative analysis of the invention of emojis and their link with pictorial messaging in the ancient cave painting era. The new topic that can be explored is the addition of avatars in the new applications of social media

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