



UPDATING TEMPORAL ELEMENTS IN THE TEXT

Kholmirezayeva Nargiza Onarboyevna

Student of SamSIFL

Sarimsoqov Sirojiddin Shoyzoqovich

Teacher of SamSIFL

Abstract: *A temporary element is a part of a text that is inserted depending on a specific time or condition and is temporary or transient. These elements typically need to be updated or changed later based on a time, date, or particular circumstance. This article discusses the advantages, reasons, and other information related to updating temporary elements.*

Key words: *temporary element, text, element, representative approach, significance of temporary elements.*

The definition of a chemical element was first introduced in 1661 by the English chemist Robert Boyle, who coined the term "element" in chemistry to designate simple substances. Therefore, the concepts of "simple substance" and "element" were considered to have the same meaning for a long time. There are two main interpretations of the term "text": immanent (expanded, philosophically oriented) and representative (focused on reflecting specific relations).[1] The immanent approach in texts emphasizes providing an unbiased perspective on reality, focusing on the internal structure of the text, while the representative approach views the text as a special form of presenting information about external reality.

In linguistics, the term "text" is applied broadly, including in oral speech samples. Text perception is studied within the framework of text linguistics and psycholinguistics. [2]When I. R. Galperin discussed the characteristics of a text, he defined it as: "A text is a written document consisting of various lexical, grammatical, and logical connections, unified by a certain ethical character, pragmatic attitude, and, accordingly, a literary processed form of communication."

The Importance of Temporary Elements in Texts

Temporary elements in literary texts are of great importance because they shape the inner rhythm, structure, and substantive essence of a work.[3] These elements, such as the specific nature of the timeline in the work, the chronological order of events, or the subjective perception of time, help the reader correctly understand the text. They increase the aesthetic value of the work and help define the development of events.

Time dimensions in a text can appear in various forms. First, events in the narrative are presented in chronological order, which influences the continuity of the story. For example, in a traditional narrative, events are reflected in a consistent flow of past, present, and future. This approach allows the reader to understand the text as a coherent whole. Second, the use of a retrospective method—returning to the past or moving



events backward—intensifies the drama in the work and allows for a deeper exploration of the character's inner experiences.[4]

Additionally, temporary elements play a vital role in shaping the characters. For example, showing how past events have influenced the character's present life enriches their inner world. Similarly, the subjective perception of time, such as how a character experiences the past through internal monologue, adds psychological depth to the text.

Temporary elements in a text also aid in expressing specific meanings. Describing the fast or slow passage of time, the author reflects the uniqueness of reality, the character's mood, or changes in life. For instance, sometimes the slow flow of time expresses the character's suffering, while a rapid passage may indicate unexpected changes.

In general, temporary elements bring the reader closer to the meaning of the work. They not only introduce the reader to the development of events but also allow them to enter the emotional and spiritual world of the author. Therefore, temporary elements have a special place in understanding the deeper meaning of the work and enhancing its aesthetic value.

Identifying Temporary Elements in a Text

Identifying temporary elements refers to the process of recognizing information related to changeable or specific times. These elements are often introduced to keep a document current or to update it later. Identifying temporary elements not only simplifies the process of editing them but also helps in delivering the text clearly and professionally.

Temporary elements include:

1. Date and time-related information: for example, "The event will take place on March 15, 2024." These elements are frequently found in scheduled events, document approval processes, or reports.
2. Condition-dependent phrases: such as "This section must be approved" or "According to the current plan." These elements indicate that the document is not finalized
3. Variables: For example, "User_name" or "Payment_amount" instead of specific names, addresses, or numbers. Software tools (such as the "Find and Replace" function) or coding languages can be used to identify such elements, simplifying the updating process.[5]

Future Possibilities for Automating the Editing of Temporary Elements

Automating the editing of temporary elements is a significant direction in modern technology, offering the opportunity to speed up the process and reduce human errors. The need for identifying and editing temporary elements, such as dates, times, or condition-dependent phrases, is common in corporate, scientific, and technical fields. In the future, this process will develop in the following directions:

1. Artificial Intelligence (AI) and Natural Language Processing (NLP) Technologies AI and NLP will simplify the identification and analysis of temporary



elements in texts. AI algorithms can analyze the text, detect these elements, and propose appropriate editing methods. For instance,

AI could identify dates, times, or transient phrases and make corresponding updates.

2. **Template- and Variable-based Automation** The use of special templates and dynamic variables for temporary elements will expand. For example, during document creation, placeholders or codes for temporary elements can be inserted. Automated systems will analyze these templates and replace them with real-time data. This method will improve efficiency in contracts, reports, and planning documents.

3. **Time-based and Scheduling Systems** Time-based software tools will be crucial in automation. These systems will track the validity of temporary elements and either notify users to update them or automatically perform the updates when required.[6] This will streamline the process and reduce the risk of using outdated information. Furthermore, cloud platforms will help apply automated editing of temporary elements on a large scale. These services will synchronize documents across teams, analyzing and updating temporary elements using real-time data. Software like Microsoft Word, Google Docs, or Adobe Acrobat is expected to include features for automatically identifying and editing temporary elements. In the future, automating the editing of temporary elements will significantly reduce human involvement. With the help of AI, NLP, cloud systems, and time-based applications, the text processing will become faster, more accurate, and more convenient. These technologies will improve productivity and ensure the document remains up-to-date

Problems in Updating Temporary Elements in Texts and Their Solutions

Several issues arise during the process of updating temporary elements. Since these elements are often context-dependent, ensuring their correct update is crucial. Below are the main problems and solutions:

1. **Incorrect Identification and Updating Problem:** The system or user may update incorrect information during the identification process, especially when many similar elements are present in the text.

Solution: Use AI-based tools to analyze the context of the text. Identify temporary elements clearly using special templates or markers (e.g., {{element}}).

2. **Formatting Issues Problem:** During the update of temporary elements, their format may get corrupted or may not match the required standard.

Solution: Set uniform formatting standards for the text. Use software tools to automatically adjust formatting.

3. **Old Information Not Updated Problem:** In large documents or archiving processes, some temporary elements may be overlooked.

Solution: Develop a systematic plan for updating temporary elements. Implement time-based reminder systems to notify the user when an update is due.

4. **Human Error Problem:** During manual updates, incorrect elements may be edited, or data may become confused.



Solution: Use automated tools like "Find and Replace." Programming languages like Python can help process large volumes of text. Using proper technology and maintaining discipline during the update process will minimize errors.[7]

Advantages of Updating Temporary Elements in Texts

Updating temporary elements helps keep texts current and adaptable. The three main benefits of this process are as follows:

1. **Speed:** The use of automated tools significantly increases the speed of updating temporary elements. This reduces the time spent on manual editing and allows for quick updates of large volumes of data.

2. **Accuracy:** Systems or algorithms reduce human errors in identifying and formatting temporary elements. This ensures the accuracy of the updating process and prevents the spread of incorrect information.

3. **Flexibility:** Temporary elements help texts adapt quickly to changing conditions. For example, updating scheduled dates or variables can quickly align a document with the new context.

These advantages facilitate effective text management, optimize workflows, and improve quality. The use of modern technologies makes this process more convenient and is expected to become a significant trend in the future.

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