

1 Introduction

The purpose of this document is to explain the elements of the attached XML schema and how they should be used. The schema is based on concepts of narrative time suggested by Gérard Genette and other narratologists, and is designed for encoding analepsis, prolepsis, stream-of-consciousness, free indirect discourse, and narrative levels, with facility also for annotating instances of extended or compressed time, and for encoding the identity of the narrator and their position with respect to the levels of a narrative.

In this schema, the elements are nested inside one another in a way that allows the tags to be used in an XML document in a manner that follows the way that the narrative constructs are used in fiction. For instance, analepsis and prolepsis often (but not always) occur within a character's mind, as part of the thought-process that is captured in prose by the stream of consciousness or free indirect discourse techniques. Accordingly, the analepsis and prolepsis XML elements here can be nested inside stream of consciousness and free indirect discourse tags, which in turn can be nested inside tags which annotate the appropriate narrative level, if this part of the narrative contains or is contained by another story. These tags do not have to be used all together, or in that order; there are several possible combinations. For example an analepsis tag can be used inside a narrative level tag without the need for a stream of consciousness tag; the schema is flexible to meet the narrative structure of a piece of fiction.

All of this serves to allow the user to encode changes in the temporal position of a narrative and changes in narrative levels, which can be related to one another; a character telling a story to the narrator about something that happened in the past would constitute both a move to a lower narrative level (because it is a story within a story) and an analepsis (because the telling of the story is a kind of flashback).

These narrative techniques have been used for centuries, allowing for comparisons of fiction texts across many genres and time periods. Once the text is encoded, it and the tags can be quantitatively analysed to aid those comparisons and look for patterns or discrepancies in narrative structures. The rest of this document will illustrate how the various tags should be applied to fiction.

2 <text>

This element is a container for the rest of the encoded XML document. It is only opened at the beginning of the document, before any other elements, and then closed at the very end.

The purpose of this tag is to allow XML documents encoded with the schema to be valid, and to act as a frame within which all the other tags, and plain text, can be placed.

Once the text element is used, while any other element from the schema can then be used, there is no obligation to do this, as plain text will now be valid, due to the fact that <text> is a complex type element with the mixed="true" attribute enabled. All other elements in which other elements can be nested also have this attribute.

3 <analepsis> and <prolepsis>

Analepsis and prolepsis are 'flashes' backwards and forwards in story time, respectively. Despite the use of the term flash, they are not necessarily brief. They can last for many pages or even entire sections of novels. They are deviations from the main temporal progression of the story, disruptions between story time and narrative time. Story time is the actual series of events that occur in the novel, and like time in the real world it is linear. Narrative time can be nonlinear; it incorporates analepsis and prolepsis.

The terms were coined by Gérard Genette, who writes that in order

to avoid the psychological connotations of such terms as 'anticipation' or 'retrospection,' which automatically evoke subjective phenomena, we will eliminate these terms most of the time in favor of two others that are more neutral, designating as *prolepsis* any narrative maneuver that consists of narrating or evoking in advance an event that will take place later, designating as *analepsis* any evocation after the fact of an event that took place earlier than the point in the story where we are at any given moment, and reserving the general term *anachrony* to designate all forms of discordance between the two temporal orders of story and narrative. (39-40)

So, an instance of analepsis or prolepsis occurs when the narrative makes an instantaneous jump to another point in time, deviating from the current moment of the story in order to inform the reader about something that happened before or after that moment.

As such an analepsis or prolepsis XML element should be opened at the point in the narrative where the narration jumps to another point in time, and closed when the story either returns to the moment left behind, or jumps again to another point in the story. The tags should not be used to merely annotate the regular, linear progression of time forwards in a narrative, because in that case there is a more proportional relation between narrative time and story time. The elements should only be used where there is a clear deviation of narrative time from a particular moment in the story.

3.1 Example

An example of how the analepsis tag can be used is in the following encoded segment of *To the Lighthouse* by Virginia Woolf:

She turned the page; `<soc PERS="Mrs. Ramsay">`there were only a few lines more, so that she would finish the story, though it was past bed-time. It was getting late. The light in the garden told her that; and the whitening of the flowers and something grey in the leaves conspired together, to rouse in her a feeling of anxiety. What it was about she could not think at first. Then she remembered; Paul and Minta and Andrew had not come back. She summoned before her again `<analepsis>`the little group on the terrace in front of the hall door, standing looking up into the sky. Andrew had his net and basket.`</analepsis>` That meant he was going to catch crabs and things. That meant he would climb out on to a rock; he would be cut off. Or coming back single file on one of those little paths above the cliff one of them might slip. He would roll and then crash. It was growing quite dark.`</soc>`

Here the narration moves from regular omniscient narration to stream of consciousness from the perspective of Mrs. Ramsay, with the instance of analepsis occurring within the stream of consciousness section. The analepsis tag is opened when Mrs. Ramsay remembers the image of Paul, Minta and Andrew standing in the doorway earlier in the evening, and is closed when she moves on from the memory to speculation about what they might be doing, which is disconnected from narrative time because it is not a thing that we know is definitely happening, whereas the event in the analepsis tags definitely did.

4 <soc>

Stream of consciousness is a technique used to provide ostensibly subjective narration from the point of view of a character, rather than a detached omniscient observer. Its purpose is “to unfold the experience of a single mind . . . to emphasize, not the ego as such, but the moving, shifting, growing stream of consciousness confined within the walls of a single brain.” (Rickert 509-10) The specific phrase is attributed to May Sinclair, who coined it almost exactly one hundred years ago while writing about Dorothy Richardson’s novels in *The Egoist*. Sinclair says about *Pilgrimage* that “in this series there is no drama, no situation, no set scene. Nothing happens. It is just life going on and on. It is Miriam Henderson’s stream of consciousness going on and on.” (58) Shirley Rose notes that William James had a hand in the phrase; in 1910 he does not quite put the words together in the order that Sinclair later does: “Consciousness . . . is nothing jointed; it flows. A ‘river’ or a ‘stream’ are the metaphors by which it is most naturally described. In talking of it hereafter, let us call it the stream of thought, of consciousness, or of subjective life.” (Rose 367) This helps to describe how the technique is used in fiction; it is the continuous reportage of thought, where one observation or memory flows into the next. It is meant to come directly from the character’s mind, without authorial intervention or translation into something more grammatical or contextually-informed; ironically it is one of the most contrived modes of narration used in fiction, such is its difference from the conventions of modern writing and grammar, and the effort the author must make to break from those conventions.

The <soc> element should be used to fully surround each passage where this technique is used, beginning at the moment where the narration changes from a more detached, descriptive narration to the intimate reporting of a character’s thoughts. We see this kind of transition often in *Pointed Roofs* by Dorothy Richardson, where the first sentence or two of a paragraph establishes a situation or setting in relatively objective terms, before the narration delves much deeper and provides Miriam Henderson’s subjective thoughts on the matter.

<analepsis> and <prolepsis> tags can be nested within <soc> tags.

4.1 Example

In the following paragraph from *Pointed Roofs*, the opening sentence is an objective statement about Miriam’s reaction to something her sister Harriett has just told her. Similarly the second sentence, a description of Miriam’s physical movement in the room, is objective and would be observable by anyone else. By contrast, the impressions that come in the succeeding sentences are known only to Miriam, and, through her stream of consciousness, to the reader:

Miriam’s amazement silenced her. She stood back from the mirror. `<soc PERS=“Miriam”>`She could not look into it until Harriett had gone. The phrases she had just heard rang in her head without meaning. But she knew she would remember all of them. She went on doing her hair with downcast eyes. She had seen Harriett vividly, and had longed to crush her in her arms and kiss her little round cheeks and the snub of her nose. Then she wanted her to be gone.`</soc>`

4.2 PERS

This attribute is used to describe which character is currently providing the perspective for the stream-of-consciousness narration. The use of this attribute is technically optional, but it is recommended when the narration in one novel is taken over by different characters’ consciousnesses at different times, as in *To the Lighthouse*, and it can of course still be used when the narrative perspective only comes from one character, as in *Pointed Roofs*.

5 `<fid>`

Free indirect discourse is another technique which is used for “representing speech, thought, and perception.” (McHale 4). Brian McHale introduces indirect discourse (ID) as common narration where the narrator has a lot of control over what is being reported; they are, once again, detached and omniscient. Free indirect discourse however, “handles person and tense as ID would . . . On the other hand, it treats deixis as DD [direct discourse] would, reflecting the character’s rather than the narrator’s position . . . Manifestly, it is contextual cues more than formal features that determine, in many cases, whether or not a sentence will be interpreted as a free indirect representation of speech, thought or perception.” (McHale 4) So, free indirect

discourse shares features of more detached narration (including correct grammar), but it is coloured by the perceptions of a character, not to the radical extent of stream-of-consciousness, but in a more subtle way.

As with `<soc>`, `<analepsis>` and `<prolepsis>` tags can be nested inside `<fid>` tags.

5.1 Example

The following paragraph from *Tender is the Night* by F. Scott Fitzgerald features objective, omniscient third-person description in its first two sentences, until the em dash, when we switch to narration that, while still grammatically correct, not breaking the sentence, and still describing externally visible features of the physical world, is coloured by the assumptions and evaluations made by the character Rosemary Hoyt.

Rosemary swam back to the shore, where she threw her peignoir over her already sore shoulders and lay down again in the sun. The man with the jockey cap was now going from umbrella to umbrella carrying a bottle and little glasses in his hands; presently he and his friends grew livelier and closer together and now they were all under a single assemblage of umbrellas—`<fid PERS="Rosemary">`she gathered that some one was leaving and that this was a last drink on the beach. Even the children knew that excitement was generating under that umbrella and turned toward it—and it seemed to Rosemary that it all came from the man in the jockey cap.`</fid>`

5.2 PERS

Similarly to its use in `<soc>`, in `<fid>` the PERS attribute is used to annotate which character is influencing the free-indirect-discourse narration.

6 `<level>`

This element is used to annotate a change in narrative level, if the piece of fiction has stories within stories. The use of the DEGREE attribute, while technically not necessary for the XML to be valid, must always be used in order for this element to have semantic meaning. The DEGREE attribute allows for any integer to be assigned to it, because in theory there can be

as many stories within stories as the writer cares to create. In narratology the term degree is used to assign numbers to these levels of story, and it is an attribute of the `<level>` element here. A first degree narrative level is “a narrative that is not embedded in any other narrative; a second-degree narrative is a narrative that is embedded in a first-degree narrative” (Jahn N2.4.2), and so on. A `<level>` element with the attribute `DEGREE=“1”` should be opened when the top-level narrative first appears in a text, and then closed when the narration changes to a lower level. At this point a separate `<level>` tag should be opened with `DEGREE=“2”`. If the narrative returns to the higher, framing level, the `<level>` with `DEGREE=“2”` should be closed and a new `<level>` with `DEGREE=“1”` should be opened. If instead a further story is created within the second-degree narrative, this will be a third-degree narrative, and should be encoded with a `<level>` tag and `DEGREE=“3”` attribute.

An example of several degrees of narrative level can be seen in *Frankenstein* by Mary Shelley, where the novel begins with the narrative of the Arctic explorer Captain Walton (the novel’s first-degree narrative), who meets Dr Frankenstein, who tells Captain Walton his story (so Dr Frankenstein’s narrative is the second-degree narrative), which includes a story told to Dr Frankenstein by the monster (the third-degree narrative). In theory the levels could keep going further down, allowing for fourth-degree narratives and more.

`<analepsis>` and `<prolepsis>` can be nested inside `<level>` tags either on their own, or nested inside `<soc>` or `<fid>` tags which are in turn contained by the `<level>` element.

6.1 Example

In this excerpt from *To the Lighthouse*, one can see how the level tags are used to encode a story within a story, as Mrs. Ramsay reads to her child. That is the second-degree narrative; we then return to the first degree narrative, the main story. When we do, we see a characteristic of Woolfs prose: the switching of stream-of-consciousness perspective from one character to another in the same paragraph in this case from Mrs. Ramsay to her husband revealing what each character is thinking about the other. There is also a brief instance of analepsis as Mrs. Ramsay remembers something that her husband had said earlier.

```
<level DEGREE=“2”> “The man’s heart grew heavy,”</level> <level DEGREE=“1”>  
she read aloud, </level> <level DEGREE=“2”> “and he would not go. He said to  
himself, ‘It is not right,’ and yet he went. And when he came to the sea the water
```

was quite purple and dark blue, and grey and thick, and no longer so green and yellow, but it was still quiet. And he stood there and said—”

Mrs. Ramsay could have wished that her husband had not chosen that moment to stop. Why had he not gone as he said to watch the children playing cricket? But he did not speak; he looked; he nodded; he approved; he went on. Mr. Ramsay He slipped, seeing before him that hedge which had over and over again rounded some pause, signified some conclusion, seeing his wife and child, seeing again the urns with the trailing of red geraniums which had so often decorated processes of thought, and bore, written up among their leaves, as if they were scraps of paper on which one scribbles notes in the rush of reading—he slipped, seeing all this, smoothly into speculation suggested by an article in THE TIMES about the number of Americans who visit Shakespeare’s house every year . . .

7 <extendedTime>

<extendedTime> is used when narrative time is extended relative to story time. For example this would occur if the reader is informed over several pages, which take minutes to read, about a character’s thoughts which fly through their mind in a matter of seconds. The element should be closed when the narration returns to a more steady flow of time.

8 <compressedTime>

By contrast, <compressedTime> should be used when narrative time moves much faster than story time, for example if a story leaves its normal flow of narration, where narrative time and story time are in closer proportion, and details the events that occur over the span of a number of years, before returning to its initial, regular narrative flow.

9 <narrator TYPE=“extra” / “intra” / “meta”>

This element and its attribute describe the narrator, the person or entity telling the story, although it doesn't describe them as an individual but instead their “relative situations and functions” (Genette 229) compared to other narrators on other levels. The terminology emanates from Genette, who states that the narrator of a first-degree narrative is an extradiegetic narrator, the narrator of a second-degree narrative is an intradiegetic narrator (inside the diegetic story of the first narrator), and the narrator of a third-degree narrative is a metadiegetic narrator (228-9). The element and attribute should be used only in a text where the narrator changes as the level changes, and the XML element should be applied at the point in the text where this change occurs.

While any string could be entered as the value for the attribute TYPE, it is recommended that the only options used are either TYPE=“extra”, TYPE=“intra” or TYPE=“meta”, as appropriate for the narrator of a given section of fiction text.

<narrator> should not be used when there is only one narrative perspective, even when there are multiple narrative levels. The narrative perspective must also change. For example, it would be appropriate to use this element to encode *Heart of Darkness* by Joseph Conrad, for the first-level narrative is told by a crew member of the ship arriving in London, making him the extradiegetic narrator, outside the main story but providing the frame narrative. The second-level narrative, and the main part of the novel, is told by Marlow, speaking to the first crew member, making Marlow the intradiegetic narrator. This dynamic is also present in *Wuthering Heights* by Emily Bronte, where Lockwood is the extradiegetic narrator, and Nelly Dean tells most of the novel to him, as the intradiegetic narrator, before we once again return to Lockwood's perspective for the final chapters. From the corpus of this project, *Pale Fire* by Vladimir Nabokov may be the closest example, but only if one considers John Shade's poem as a kind of narrative level, making Shade the intradiegetic narrator and Charles Kinbote the extradiegetic narrator, with his introduction and endnotes forming a higher narrative level than Shade's poem. Indeed this encoding of the novel also only works if one considers Shade and Kinbote to be two different people, and that the whole story and Shade are not fabrications of Kinbote's mind. The monster in *Frankenstein* is an example of a metadiegetic narrator: a figure whose tale is relayed to the reader through not one but two other narrators.

Works Cited

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Appendix: The Schema

```
<?xml version="1.0" encoding="UTF-8"?>
<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema" elementFormDefault="qualified">
<xs:element name="text">
  <xs:complexType mixed="true">
    <xs:sequence>
      <xs:choice minOccurs="0" maxOccurs="unbounded">
        <xs:element name="analepsis" type="xs:string"/>
        <xs:element name="prolepsis" type="xs:string"/>
        <xs:element name="soc">
          <xs:complexType mixed="true">
            <xs:sequence>
              <xs:choice minOccurs="0" maxOccurs="unbounded">
                <xs:element name="analepsis" type="xs:string"/>
                <xs:element name="prolepsis" type="xs:string"/>
              </xs:choice>
            </xs:sequence>
            <xs:attribute name="PERS" type="xs:string"/>
          </xs:complexType>
        </xs:element>
      </xs:choice>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="fid">
  <xs:complexType mixed="true">
    <xs:sequence>
      <xs:choice minOccurs="0" maxOccurs="unbounded">
        <xs:element name="analepsis" type="xs:string"/>
        <xs:element name="prolepsis" type="xs:string"/>
      </xs:choice>
    </xs:sequence>
    <xs:attribute name="PERS" type="xs:string"/>
  </xs:complexType>
</xs:element>
```

```

<xs:element name="level">
  <xs:complexType mixed="true">
    <xs:sequence>
      <xs:choice minOccurs="0" maxOccurs="unbounded">
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          <xs:complexType mixed="true">
            <xs:sequence>
              <xs:choice minOccurs="0" maxOccurs="unbounded">
                <xs:element name="analepsis" type="xs:string"/>
                <xs:element name="prolepsis" type="xs:string"/>
              </xs:choice>
            </xs:sequence>
            <xs:attribute name="PERS" type="xs:string"/>
          </xs:complexType>
        </xs:element>
        <xs:element name="fid">
          <xs:complexType mixed="true">
            <xs:sequence>
              <xs:choice minOccurs="0" maxOccurs="unbounded">
                <xs:element name="analepsis" type="xs:string"/>
                <xs:element name="prolepsis" type="xs:string"/>
              </xs:choice>
            </xs:sequence>
            <xs:attribute name="PERS" type="xs:string"/>
          </xs:complexType>
        </xs:element>
        <xs:element name="extendedTime"/>
        <xs:element name="compressedTime"/>
      </xs:choice>
    </xs:sequence>
    <xs:attribute name="DEGREE" type="xs:integer"/>
  </xs:complexType>

```

```
</xs:element>
<xs:element name="extendedTime"/>
<xs:element name="compressedTime"/>
<xs:element name="narrator">
  <xs:complexType>
    <xs:attribute name="TYPE" type="xs:string"/>
  </xs:complexType>
</xs:element>
</xs:choice>
</xs:sequence>
</xs:complexType>
</xs:element>
</xs:schema>
```