

# 1 New Specification for the TemplateEngine class

## 1.1 New Feature

The TemplateEngine should treat the template `${year}` in a special way **iff** the value of the entry has one of the following formats:

1. "X years ago". Then the actual replacement value should be the year number that was X years **before** the current year.
2. "in X years". Then the actual replacement value should be the year number that is X years **after** the current year.

## 1.2 Specifications for the New Feature

- If X is not a number or a negative number then there should be no special treatment of the template `${year}`.
- If X is zero then the replacement value should be the current year.
- If the EntryMap class used contains the template `${base_year}` with a positive integer as a replacement value, then this number should be used to calculate the replacement value of `${year}` **instead** of the current year. In all other cases, the referenvelope year is the current year.

## 1.3 Examples

Example 1 ( executed on 2018 )

EntryMap entries:

— year / "5 years ago"

Template string: "My team won the cup in `${year}`."

Expected result: "My team won the cup in 2013."

Example 2 ( executed on 2018 )

EntryMap entries:

— year / "in 2 years"

— base\_year / 1990

Template string: "I was born in `${year}`."

Expected result: "I was born in 1992."

Example 3 ( executed on 2018 )

EntryMap entries:

— year / "in 2 years"

— base\_year / 1990

Template string: "I was born in `${year}` `${base_year}`."

Expected result: "I was born in 1992 1990."