

# Pattern Clause Position Matching

For a number of different transform types, you can specify the limits at which any match is valid for a text string. In the diagram below, you can see how six different positional identifiers can be applied to pattern matching:

**NOTE:** Depending on the type of transform, some of these clauses are not available.

## Positioning



**Figure: Pattern Clause Positioning**

Position Parameter	Description	Example
after	Identifies pattern or string after which the match is evaluated.	<pre>extract col:MySentence after:'eat '</pre> <p>Extracts: pizza on Fridays with my friends."</p>
from	Identifies pattern or string from which the match is evaluated. Any match includes the from clause pattern or string.	<pre>extract col:MySentence from:'eat '</pre> <p>Extracts: eat pizza on Fridays with my friends."</p>
before	Identifies pattern or string before which the match is evaluated.	<pre>extract col:MySentence before:'friends'</pre> <p>Extracts: "I like to eat pizza on Fridays with my</p>
to	Identifies pattern or string up to which the match is evaluated. Any match includes the to clause pattern or string.	<pre>extract col:MySentence to:'friends'</pre> <p>Extracts: "I like to eat pizza on Fridays with my friends</p>

on	Identifies pattern or string in which the match may be found.	<pre>extract col:MySentence on: 'Fridays'</pre> <p>Extracts: Fridays</p>
at	Identifies the index of starting (x) and ending (y) characters in the string to match. In the above example, at : 2 , 6 matches the string like.	<pre>extract col:MySentence at: 2,6</pre> <p>Extracts: like</p>

## Pattern Parameter Interactions

The following table identifies the pattern parameters that can be matched with the parameter in the left column.

**NOTE:** The `at` parameter does not interact with any of the listed parameters.

Parameter	after	from	before	to	on
after	See Note 1.	No.	before or to	before or to	Yes. Can include before .
from	No.	See Note 1.	before or to	before or to	No.
before	after or from	after or from	See Note 1.	No.	Yes. Can include after.
to	after or from	after or from	No.	See Note 1.	No.
on	Yes. Can include before .	No.	Yes. Can include after .	No.	

- **Note 1:** If there is no other pattern parameter in the transform, the maximum number of matches per cell is 1. If there is a matching parameter, more matches per cell can be found.