

```
com.intuit.fuzzymatcher.component
```

MatchServiceTest

itShouldApplyMatch	itShouldApplyMatchForMultiplePrimitives	itShouldApplyMatchWithSourceDocument	itShouldApplyMatchWithSourceList	itShouldApplyMatchWithVariance	writeOutput
null	null	null	null	null	null
itShouldApplyMatchForBaseWithEmptyElements	itShouldApplyMatchForClosuresWithEmptyElements	.	getTestData	getTestDocuments	itShouldApplyMatchByDocId
null	null	null	none	none	null
itShouldApplyMatchForEmptyInput	itShouldApplyMatchForEmptyOutput	getCSVReader	itShouldApplyMatchByGroupByCollection	itShouldApplyMatchForDemo	itShouldApplyMatchForEmptyOutput
null	null	null	null	null	null
itShouldApplyMatchForMultipleEmptyFields	itShouldApplyMatchWithIDocuments	getDate	itShouldApplyMatchByGroupByDocument	itShouldApplyMatchWithDate	itShouldApplyMatchWithEmptyOutput
null	null	none	null	null	null
itShouldApplyMatchForMultipleEmptyFields	itShouldApplyMatchWithIDocumentsAndTestDoc	getDemoDocuments	itShouldApplyMatchByGroupByFieldSet	itShouldApplyMatchWithAge	itShouldApplyMatchWithFailure
null	null	none	null	null	null
itShouldApplyMatchForMultipleEmptyFields	itShouldApplyMatchWithIDocumentsAndTestDoc	getOrderedElements	itShouldApplyMatchWithEmptyOutput	itShouldApplyMatchWithEmptyOutput	itShouldApplyMatchWithInteger
null	null	none	null	null	null
itShouldApplyMatchForMultipleEmptyFields	itShouldApplyMatchWithIDocumentsAndTestDoc	itShouldApplyMatchWithEmptyOutput	itShouldApplyMatchWithEmptyOutput	itShouldApplyMatchWithEmptyOutput	itShouldOverrideProcessingDictionary
null	null	itShouldApplyMatchWithEmptyOutput	itShouldApplyMatchWithEmptyOutput	itShouldApplyMatchWithEmptyOutput	null

TokenRepoTest	MatchServicePerfTest	MatchService
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[illegible]

```
ElementMatchTest . getDictionary . matchElement
```

The screenshot shows a Jest test runner interface. The top bar is green and displays 'PASS'. The left sidebar is green and shows a component tree for 'TokenRepo'. The main area is green and shows a component tree for 'DocumentMatch'. The 'DocumentMatch' tree shows a 'matchDocuments' method call with arguments 'none' and 'null'. The 'TokenRepo' tree shows a 'put' method call with argument 'none'. The main area also shows a 'matchDocuments' method call with arguments 'none' and 'null'. The bottom status bar shows '100% PASS' and '100% PASS'.

MatchServicePerfTest	MatchService
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<code>isNullOrUndefined</code> null	<code>getOrDefault</code> none	<code>isNullOrEmpty</code> null	<code>applyMatch</code> none	<code>applyMatchByDecid</code> none
<code>applyMatch</code> none	<code>isNullOrWhiteSpace</code> null	<code>isNullOrEmptyOrWhitespace</code> none	<code>applyMatchByGroups</code> null	<code>groupBySimilar</code> none
<code>getAddress</code> null	<code>isNullOrEmptyOrEmpty</code> null	<code>isNullOrEmptyOrEmptyOrWhitespace</code> none	<code>containsMatch</code> none	

MatchService

The diagram illustrates the results of various fuzzy matching functions. It consists of six boxes arranged in a 3x2 grid. Each box has a title and a result value inside a smaller box.

- Top Left:** Title "applyMatch", Result "none" (green box).
- Top Right:** Title "applyMatchByDocId", Result "none" (green box).
- Middle Left:** Title "applyMatchByGroups", Result "null" (yellow box).
- Middle Right:** Title "groupSimilar", Result "none" (green box).
- Bottom Left:** Title "containsMatch", Result "none" (green box).
- Bottom Right:** Title (empty), Result (empty) (green box).

Dictionary	ElementMatch
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```

class Dictionary {
    dictionary
    getDictionary()
    getAddressDictionary()
    getNameDictionary()
    matchElement()
}

```

ElementMatch

The image shows three cards side-by-side, each representing a different programming language and its null value representation:

- JavaScript:** The card is green. It has a small dot (•) in the top left corner. The word "none" is centered in a white box.
- Java:** The card is green. It has the text "elementType.toString()" in the top left corner. The word "none" is centered in a white box.
- C#:** The card is yellow. It has the text "matchElement" in the top left corner. The word "null" is centered in a white box.

DocumentMatch

The diagram shows three variable states in a row:

- none**: A green box with a small black dot in the top-left corner and the word "none" in a white box at the bottom.
- DocumentNotFound**: A yellow box with the text "DocumentNotFound" in the top-left corner and the word "null" in a white box at the bottom.
- matchDocuments**: A green box with the text "matchDocuments" in the top-left corner and the word "none" in a white box at the bottom.

To the right of these boxes, the words "none", "get", and "put" are listed vertically, each followed by a white box containing the word "none".

TokenRepo

.	get	put
none	none	none

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Element	Document	ElementTest	Token
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The diagram illustrates the layout of methods for five classes: Document, ElementClassification, Matchable, Score, and DocumentTest. Methods are grouped into boxes, with some boxes highlighted in yellow to indicate null returns.

- Document Class:**
 - Methods: `getDocument`, `getPreProcessFunction`, `getScore`, `getTokens`, `getUnmatchedChildCount`, `getValue`.
 - Boxed returns: `none` (multiple instances).
 - Yellow box: `getUnmatchedChildCount` returns `null`.
- ElementClassification Class:**
 - Methods: `getElementClassification`, `getPreProcessedValue`, `setDocument`, `setPreProcessedValue`, `toString`.
 - Boxed returns: `none` (multiple instances).
 - Yellow box: `setDocument` returns `none`.
- Matchable Class:**
 - Methods: `getChildCount`, `getScoringFunction`, `toString`.
 - Boxed returns: `none` (multiple instances).
 - Yellow box: `toString` returns `none`.
- Score Class:**
 - Methods: `getMatch`, `toString`.
 - Boxed returns: `none` (multiple instances).
 - Yellow box: `toString` returns `none`.
- DocumentTest Class:**
 - Methods: `getChildCount`, `getScoringFunction`, `isSource`, `toString`.
 - Boxed returns: `none` (multiple instances).
 - Yellow box: `getChildCount` returns `null`.

com.intuit.fuzzymatcher.function

ScoringFunction

PreProcessFunctionTest

TokenizerFunctionTest

Utils

The diagram illustrates a 3x3 grid of boxes, each representing a data point. The boxes are arranged in three rows and three columns. The leftmost grid is green and contains the word 'none' in every box. The middle grid is yellow and contains the word 'null' in every box. The rightmost grid is yellow and contains the word 'null' in every box. To the right of these grids are two vertical bars: a yellow one on top and a green one on the bottom, each with a small square at the top and a small square at the bottom.

PreProcessFunctionTest	TokenizerFunctionTest	Utils
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[illegible]

TokenizerFunctionTest

PreProcessFunction	ScoringFunctionTest				
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Method	Null Count
addressNormalization	1
namePreprocessing	1
numericValue	1
removeTrailingCharacter	1
toLowerCase	1
getMockChildScores	1
getMockMatch	1
getMockDocument	1
getMockToken	1
@ShouldOverrideGetterScore_Success	1
@ShouldOverrideSetterScore_Success	1
chainTokenizers	1
getTokenizers	1
wordTokenizer	1
nameNormalization	1
numberPreprocessing	1
removeSpecialChars	1
trim	1
@ShouldGenerateUsing_Success	1
@ShouldGenerateUsingGetters_Success	1
@ShouldGenerateUsingGetters_Success	1
@ShouldGenerateUsingGetters_Success	1

ScoringFunctionTest

TokenizerFunction

.	decagramTokenizer	triGramTokenizer	valueTokenizer
null	none	none	none
chainTokenizers	getnGramTokenizers	wordTokenizer	wordTokenizer
none	none	null	none

Utile

Age Group	No (%)	Yes (%)	Don't know (%)
18-24	~85	~10	~5
25-34	~75	~20	~5
35-44	~65	~30	~5
45-54	~55	~40	~5
55-64	~45	~50	~5
65+	~35	~60	~5

...and implications

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