LengthBased ExampleSelector

This ExampleSelector selects which examples to use based on length. This is useful when you are worried about constructing a prompt that will go over the length of the context window. For longer inputs, it will select fewer examples to include, while for shorter inputs it will select more.

```
from langchain.prompts import PromptTemplate
from langchain.prompts import FewShotPromptTemplate
from langchain.prompts.example_selector import LengthBasedExampleSelector
```

```
example prompt = PromptTemplate(
    input_variables=["input", "output"],
    template="Input: {input}\nOutput: {output}",
example selector = LengthBasedExampleSelector(
   # These are the examples it has available to choose from.
   examples=examples,
   # This is the PromptTemplate being used to format the examples.
   example prompt=example prompt,
   # This is the maximum length that the formatted examples should be.
   # Length is measured by the get text length function below.
   max length=25,
   # This is the function used to get the length of a string, which is used
   # to determine which examples to include. It is commented out because
   # it is provided as a default value if none is specified.
    # get text length: Callable[[str], int] = lambda x: len(re.split("\n| ", x))
dynamic prompt = FewShotPromptTemplate(
   # We provide an ExampleSelector instead of examples.
    example selector=example selector,
   example_prompt=example_prompt,
    prefix="Give the antonym of every input",
    suffix="Input: {adjective}\nOutput:",
```

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```
input_variables=["adjective"],
)
```

```
# An example with small input, so it selects all examples.
print(dynamic_prompt.format(adjective="big"))
```

```
Give the antonym of every input

Input: happy
Output: sad

Input: tall
Output: short

Input: energetic
Output: lethargic

Input: sunny
Output: gloomy

Input: windy
Output: calm

Input: big
Output:
```

```
# An example with long input, so it selects only one example.
long_string = "big and huge and massive and large and gigantic and tall and much
much much much much bigger than everything else"
print(dynamic_prompt.format(adjective=long_string))
```

```
Give the antonym of every input

Input: happy
Output: sad

Input: big and huge and massive and large and gigantic and tall and much much much much bigger than everything else
Output:
```

```
# You can add an example to an example selector as well.
new_example = {"input": "big", "output": "small"}
dynamic_prompt.example_selector.add_example(new_example)
print(dynamic_prompt.format(adjective="enthusiastic"))
```

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Give the antonym of every input

Input: happy
Output: sad

Input: tall
Output: short

Input: energetic
Output: lethargic

Input: sunny
Output: gloomy

Input: windy
Output: calm

Input: big
Output: small

Input: enthusiastic

Output: