

Example Selector

Logic for selecting examples to include in prompts.

pydantic model langchain.prompts.example_selector.LengthBasedExampleSelector [\[source\]](#)

Select examples based on length.

Validators:

- `calculate_example_text_lengths` » `example_text_lengths`

field **example_prompt**: *Langchain.prompts.prompt.PromptTemplate* *[Required]*

Prompt template used to format the examples.

field **examples**: *List[dict]* *[Required]*

A list of the examples that the prompt template expects.

field **get_text_length**: *Callable[[str], int]* = *<function _get_length_based>*

Function to measure prompt length. Defaults to word count.

field **max_length**: *int* = *2048*

Max length for the prompt, beyond which examples are cut.

add_example(*example: Dict[str, str]*) → *None* [\[source\]](#)

Add new example to list.

select_examples(*input_variables: Dict[str, str]*) → *List[dict]* [\[source\]](#)

Select which examples to use based on the input lengths.

pydantic model langchain.prompts.example_selector.MaxMarginalRelevanceExampleSelector

ExampleSelector that selects examples based on Max Marginal Relevance. [\[source\]](#)

This was shown to improve performance in this paper: <https://arxiv.org/pdf/2211.13892.pdf>

field **fetch_k**: *int* = *20*

Number of examples to fetch to rerank.

classmethod **from_examples**(*examples: List[dict]*, *embeddings*:

Langchain.embeddings.base.Embeddings, *vectorstore_cls*:

Type[Langchain.vectorstores.base.VectorStore], *k: int* = *4*, *input_keys*:

Optional[List[str]] = *None*, *fetch_k: int* = *20*, ***vectorstore_cls_kwargs: Any*) →

langchain.prompts.example_selector.semantic_similarity.MaxMarginalRelevanceExampleSelector

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Reshuffles examples dynamically based on query similarity.

Parameters:

- **examples** – List of examples to use in the prompt.
- **embeddings** – An initialized embedding API interface, e.g. OpenAIEmbeddings().
- **vectorstore_cls** – A vector store DB interface class, e.g. FAISS.
- **k** – Number of examples to select
- **input_keys** – If provided, the search is based on the input variables instead of all variables.
- **vectorstore_cls_kwargs** – optional kwargs containing url for vector store

Returns:

The ExampleSelector instantiated, backed by a vector store.

select_examples(*input_variables: Dict[str, str]*) → List[dict] [\[source\]](#)

Select which examples to use based on semantic similarity.

pydantic model langchain.prompts.example_selector.SemanticSimilarityExampleSelector

Example selector that selects examples based on SemanticSimilarity. [\[source\]](#)

field **example_keys**: Optional[List[str]] = None

Optional keys to filter examples to.

field **input_keys**: Optional[List[str]] = None

Optional keys to filter input to. If provided, the search is based on the input variables instead of all variables.

field **k**: int = 4

Number of examples to select.

field **vectorstore**: langchain.vectorstores.base.VectorStore *[Required]*

VectorStore than contains information about examples.

add_example(*example: Dict[str, str]*) → str [\[source\]](#)

Add new example to vectorstore.

classmethod **from_examples**(*examples: List[dict], embeddings:*
langchain.embeddings.base.Embeddings, vectorstore_cls:
Type[langchain.vectorstores.base.VectorStore], k: int = 4, input_keys:
*Optional[List[str]] = None, **vectorstore_cls_kwargs: Any*) →

langchain.prompts.example_selector.semantic_similarity.SemanticSimilarityExampleSelector

Create k-shot example selector using example list and embeddings. [\[source\]](#)

Reshuffles examples dynamically based on query similarity.

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- **vectorstore_cls** – A vector store DB interface class, e.g. FAISS.
- **k** – Number of examples to select
- **input_keys** – If provided, the search is based on the input variables instead of all variables.
- **vectorstore_cls_kwargs** – optional kwargs containing url for vector store

Returns:

The ExampleSelector instantiated, backed by a vector store.

select_examples(*input_variables: Dict[str, str]*) → List[dict]

[\[source\]](#)

Select which examples to use based on semantic similarity.