Module Cheat Sheet: Introduction to Lang	Chain in GenAI
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Package/Method	Description	Code Example
WeitonalLM	A class from the then, wastoon, machine, learning from dation, model scatterational langehalm models that creates a Long Chain compatible weapper around IBMs westourcal models.	From the particular and control contro
Message Types	Different types of messages that chat models can use to provide context and control the conversation. The most cummon message types are Systemidicosage, Humanideosage, and Aldresage.	from longholo_care accounts inpart househouse, Springforcope, Adversage age -eights_lib.comball; System-Recognition-from are abstract at the results a varier in chanses the perfect beat to read in one that sentences, something-printed-from each grader marks, and book a found it read?) 10
PromptTemplate	A class from the langulatin, core groups module that below format groups with variables. These templates allow you to define a consistent format while foreign placeholders for variables that change with each we class.	Tran Lamphani, Java Jarmani, Sapara Transferminasa pagana - Promotininasa, managamani Transi Lampa (education) jota adant (tapol)*) pagana - Promotininasa, managamani Lampa (education) jota adant (tapol)*) formated_groupt - promotinosat(seps.)
ChatPromptTemplate	A class from the lengthsia, core groupes models that formas a list of that messages with variables. These templates consist of a list of message templates themselves.	The based on the proper court of the first products **The second of the product
MestagesPlaceholder	A placeholder that allows you to add a list of messages to a specific upor to a ChatPromptTemplate. This capability is useful when you want the user to pass in a list of messages you would did into a particular aport.	The bandphill, the region space is required to the respective control of the region of the region of the respective control of the region of t
NoscOutput*uner	Agazner that allows users to specify an arbitrary JCOS schema and query LLMs for outputs that confirm to that cohema. A parser is useful for obtaining structured data from LLMs.	From templating and continue process in continue process of the continue proce
CommaSeparatedListOutputFarser	A partner used to return a list of comma-separated Items, This parser converts the LLM's response into a Python list.	From Langelina Agrica, Joseph Salert Candidacestada Lichiquidroses From Langelina Candidacestada Lichiquidroses
Document	A class from the langulosis, core-documents module that contains information about some data. This class has the following two articulates page, content the content of the document) and metadata (architerary metadata associated with the document).	from langulant_care_discounts impact becomest see parameter=Prime is an interpreted up-local general-separa programming language grant the prime is a parameter prime in a separa programming language programming the desired prime programming common control of the prime is a second to the second in a sec
PyPDFLoader	A document holder from the laughbult, community document, holders that holds FOFs into Document objects. You can use this document loader to extract text content from FOF dies.	Tran Lingshitz, camentry, account, Linker, Dayer EyMCusher March Lingshitz, Camentry, account, Linker, Dayer EyMCusher March Lingshitz, Camentry, account,
WebBaseLoader	A document holder from the langthain, community-document landers that holds content from websites into Document objects. You can use this document lander to extract text content from web pages.	from language, security is assert a security security indicate and a security securi
CharactorTextSplitter	A test splitter from hingshalakest splitter that splits sets into chunds based on characters. This splitter is useful for breaking long documents into modific turer manageable chunds for precenting with LLMs.	The language and pulling and the Content Production The Splitter - Content Content Content The Splitter - Content Content Content The Content Content Content The Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content
RecursiveCharacterTextSplitter	Aver uplifier from langularia tone, gallium that optic text recurrintly lated on a list of separators. This option tries to split on the first eigenent, then the second separator, and any subsequent separators, used the claudes of text attain the specified size.	Tree legalush-but_willister eigens Essenises/Demonstrafesjilister Esse_dultur = Manuschischement-fesjilister Esse_dultur = Manuschischement-fesjilister Esse_dultur = Manuschischement-fesjilister Esse_dultur = Ess
WatsonXimbeddings	A class from langshale, then that creases embeddings (eventer representations) of text using IBM's warnous, at embedding models. Too can use these embeddings for semantic search and other vector-based operations.	From Langelois, the langer Materializations state of price of the Control of the
Chroma	A vector store from langularia vectorstores that stores embeddings and provides methods for similarity search. Vos can use Chroma for storing and retrieving documents based on semantic similarity.	from langulars, materialists apper Corona // conserve - Corons True, disputationalists, without, malested programmer - Corona True, disputationalists, without, malested programmer - Corona True, disputationalists, without, malested programmer - Corona True, disputationalists, without and corona True - Corona True, management -

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Section 1.			# Gomen's worder view to a retriever // Mories Goognetic Augustation // Mories Goognetic Augustation data = retrieve retrievel(augustation)
Figure 2 and 1 and	Retrievers	Interfaces that return documents given an unstructured query. Retrievers accept a string query as input and return a list of Document objects as output. You can use vector stores as the backhose of a retriever.	
Figure 2014 And an an analysis of the control of th	ParentDocumentBetriever	A verticeve from longshain verticever that splits documents into small chunks for embedding but returns the parent documents during verticeal. This verticever balances accurate embeddings with content preservation.	ports guitter - Ourschriefes(Staterschus, Lancida), Ontar Javelapa) (stati, guitter - Ourschriefes(Staterschus, Lancida), Ontar Javelapa) (stati, guitter - Ourschriefes(Staterschus, Lancida)) (stati, guitter - Ourschus, Javelapa) (stati, guitter - Ourschus, Javelapa) (statier, Javelapan) (statier, Jave
Table 1	RetrievalQA	A chain from long-thain chains that sowers questions haved on retrieved documents. The littlewalQA chain combines a retriever with an LLM to generate answers based on the retrieved context.	u a herizatilik fran dasil, just blassizzelik, just blassizzelik, just erizare-desazen h.a., yezeren(), erzin, yezer, dasilenderizatu
Constitution of the control of the c	ChatMessageHintery	A lightweight wrapper from lengthain memory that provides convesient methods for sating the A. Alle lange, and then fetching them all. The can see the Chaldenage/Bloory wrapper to maintain conversation bilinery.	Salary - Confinence (Carlot) Salary - S
Hand the state of	Conversation Buffer Memory	A memory module from langulation memory that allows for the storage of messages and conversation bintory. Touc can use this memory module conversation chains to maintain centerst across multiple interactions.	convention \(\text{ConventionChief}\) \text{Hostical(N)}, \(\text{Instantion(N)}, \text{Instantion(N)},
Assistance from implication and the confidence complete data to complete d	1.3.MChain	A basic chain from langehain chains that combines a prompt template with an LIM. It's the simplest form of chain in Langehain.	template ""They find it to come would a familia dish from the own that the owns template." "MR SERVER! """""""""""""""""""""""""""""""""""
A component from lengthsis, over roundless that allows function chaining to use the 'among' method, enabling structured multi-neep processing. A component from lengthsis, over roundless that allows function chaining to use the 'among' method, enabling structured multi-neep processing. A component from lengthsis, over roundless that allows function chaining to use the 'among' method, enabling structured multi-neep processing. A component from lengthsis, over roundless that allows function chaining to use the 'among' method, enabling structured multi-neep processing. A component from lengthsis, over roundless that allows function chaining to use the 'among' method. A component from lengthsis, over roundless that allows function chaining to use the 'among' method. A component from lengthsis, over roundless that allows function chaining to use the 'among' method. A component from lengthsis, over roundless that allows function chaining to use the 'among chaining to use the 'am	SequentialChain	A chain from langelain chains that combine multiple chains in sequence, where the output of one chain becomes the input for the next chain, Sequential Chain is usuful for multi-step processing.	// Early dates - parks manch hassed on translation to the control of the control
Tool A claim from heighbals, now souls that regressers an interface that me agent, claim, or ELM can use to interact with the world. Took perform questific tasks like calculations and data verificated. Tool	Bunnable Passifre-ugh	A component from laughbain, our a runnables that allows function chaining to use the 'assign' method, enabling structured muld-step processing.	// Courts and Individual childs with the joint sproater
(mint) of warrd, wather lineation. (tr): ""Spain to rea source wasther as the practical lancation."" ""Spain to rea source wasther as the practical lancation."" of water and the state of the state	Tool	A class from langthsin, core tools that represents an interface that an agent, chain, or LLM can use to interact with the world. Tools perform specific tools like calculations and data vertireval.	pymbu, gyul - PymbuREA() yymbu, galadaine'n - Hoodi aman'Pymbu Galadaine'n aman'Pymbu Galadaine'n aman'ymbu Ga
	étool decerator	A decerator from langthsis took that simplifies the creation of custom took. This tool automatically oursers a function into a Tool object.	True lamphids. Note lamper task great and great part of the second secon
A function from laingshalm agents that creates an agent following the Robert (Beasoning - Acting) framework. This function fains in LLM, a limit of look, and a prompt template as input and returns an agent that can leave and effect took to accomplish tasks. The function fains in LLM, a limit of look, and a prompt template as input and returns an agent that can leave and effect took to accomplish tasks.	oreate_react_agent	This function takes an LLM, a list of tools, and a prompt template as input and returns an agent that can	agent = create; yeart_quart(told:teath(), told:teath(),
from Laughtinia sports aspert Agentificanctor gent executor Agentificanctor and A claim from Inapplabals approx the execution flow of an agent. This class handles the criterian agent agent factor from the control of the control of the agent. This class handles the criterian agent agent factor factor for the control of the control	AgentExecutor	Actast from longshain agents that manages the execution flow of an agent. This class handles the orchestration between the agent's reasoning and the actual tool execution.	spin_nector = Agentianctor(spin_nector) endoarfor, endoarfor, spin_nector(spin_nector)

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