

# Analyze Document

## Contents

- Summarize
- Question Answering

The AnalyzeDocumentChain is more of an end to chain. This chain takes in a single document, splits it up, and then runs it through a CombineDocumentsChain. This can be used as more of an end-to-end chain.

```
with open("../state_of_the_union.txt") as f:  
    state_of_the_union = f.read()
```

## Summarize

Let's take a look at it in action below, using it summarize a long document.

```
from langchain import OpenAI  
from langchain.chains.summarize import load_summarize_chain  
  
llm = OpenAI(temperature=0)  
summary_chain = load_summarize_chain(llm, chain_type="map_reduce")
```

```
from langchain.chains import AnalyzeDocumentChain
```

```
summarize_document_chain = AnalyzeDocumentChain(combine_docs_chain=summary_chain)
```

```
summarize_document_chain.run(state_of_the_union)
```

[Skip to main content](#)

" In this speech, President Biden addresses the American people and the world, discussing the recent aggression of Russia's Vladimir Putin in Ukraine and the US response. He outlines economic sanctions and other measures taken to hold Putin accountable, and announces the US Department of Justice's task force to go after the crimes of Russian oligarchs. He also announces plans to fight inflation and lower costs for families, invest in American manufacturing, and provide military, economic, and humanitarian assistance to Ukraine. He calls for immigration reform, protecting the rights of women, and advancing the rights of LGBTQ+ Americans, and pays tribute to military families. He concludes with optimism for the future of America."

## Question Answering

Let's take a look at this using a question answering chain.

```
from langchain.chains.question_answering import load_qa_chain
```

```
qa_chain = load_qa_chain(llm, chain_type="map_reduce")
```

```
qa_document_chain = AnalyzeDocumentChain(combine_docs_chain=qa_chain)
```

```
qa_document_chain.run(input_document=state_of_the_union, question="what did the  
president say about justice breyer?")
```

```
' The president thanked Justice Breyer for his service.'
```