

Get started with Claude

> Make your first API call to Claude and build a simple web search assistant

Prerequisites

- * An Anthropic [Console account](https://console.anthropic.com/)
- * An [API key](https://console.anthropic.com/settings/keys)

Call the API

<Tabs>

<Tab title="cURL">

<Steps>

<Step title="Set your API key">

Get your API key from the [Anthropic Console]

(https://console.anthropic.com/settings/keys) and set it as an environment variable:

```
```bash
```

```
export ANTHROPIC_API_KEY='your-api-key-here'
```

```
```
```

</Step>

<Step title="Make your first API call">

Run this command to create a simple web search assistant:

```
```bash
```

```
curl https://api.anthropic.com/v1/messages \
```

```
-H "Content-Type: application/json" \
```

```
-H "x-api-key: $ANTHROPIC_API_KEY" \
```

```
-H "anthropic-version: 2023-06-01" \
```

```
-d '{
```

```
 "model": "claude-sonnet-4-20250514",
```

```
 "max_tokens": 1000,
```

```
 "messages": [
```

```
 {
```

```
 "role": "user",
```

```
 "content": "What should I search for to find the latest developments in
```

```
renewable energy?"
```

```
 }
```

```
]
```

```
}'
```

```
```
```

Example output:

```
```json
```

```
{
```

```
 "id": "msg_01HCDu5LRGeP2o7s2xGmxyx8",
```

```
 "type": "message",
```

```
 "role": "assistant",
```

```
 "content": [
```

```
 {
```

```
 "type": "text",
```

```
 "text": "Here are some effective search strategies to find the latest
```

```
renewable energy developments:\n\n## Search Terms to Use:\n- "renewable energy news
```

```
2024"\n- "clean energy breakthrough"\n- "solar/wind/battery technology advances"\n-
```

```
"green energy innovations"\n- "climate tech developments"\n- "energy storage
```

```
solutions"\n\n## Best Sources to Check:\n\n**News & Industry Sites:**\n- Renewable Energy
```

```
World\n- GreenTech Media (now Wood Mackenzie)\n- Energy Storage News\n- CleanTechnica\n- PV
```

```
Magazine (for solar)\n- WindPower Engineering & Development..."
```

```
 }
```

```
],
```

```
 "model": "claude-sonnet-4-20250514",
```

```

 "stop_reason": "end_turn",
 "usage": {
 "input_tokens": 21,
 "output_tokens": 305
 }
 },
</Step>
</Steps>
</Tab>

<Tab title="Python">
 <Steps>
 <Step title="Set your API key">
 Get your API key from the [Anthropic Console]
 (https://console.anthropic.com/settings/keys) and set it as an environment variable:

      ```bash
      export ANTHROPIC_API_KEY='your-api-key-here'
    </Step>

    <Step title="Install the SDK">
      Install the Anthropic Python SDK:

      ```bash
 pip install anthropic
 </Step>

 <Step title="Create your code">
 Save this as `quickstart.py`:

      ```python
      import anthropic

      client = anthropic.Anthropic()

      message = client.messages.create(
          model="claude-sonnet-4-20250514",
          max_tokens=1000,
          messages=[
              {
                  "role": "user",
                  "content": "What should I search for to find the latest developments in
renewable energy?"
              }
          ]
      )
      print(message.content)
    </Step>

    <Step title="Run your code">
      ```bash
 python quickstart.py

 Example output:

      ```python
      [TextBlock(text='Here are some effective search strategies for finding the latest
renewable energy developments:\n\n**Search Terms to Use:**\n- "renewable energy news
2024"\n- "clean energy breakthroughs"\n- "solar/wind/battery technology advances"\n- "energy
storage innovations"\n- "green hydrogen developments"\n- "renewable energy policy

```

```
updates"\n\n**Reliable Sources to Check:**\n- **News & Analysis:** Reuters Energy, Bloomberg
New Energy Finance, Greentech Media, Energy Storage News\n- **Industry Publications:**
Renewable Energy World, PV Magazine, Wind Power Engineering\n- **Research Organizations:**
International Energy Agency (IEA), National Renewable Energy Laboratory (NREL)\n-
**Government Sources:** Department of Energy websites, EPA clean energy
updates\n\n**Specific Topics to Explore:**\n- Perovskite and next-gen solar cells\n-
Offshore wind expansion\n- Grid-scale battery storage\n- Green hydrogen production\n- Carbon
capture technologies\n- Smart grid innovations\n- Energy policy changes and incentives...',
type='text')]
```

```
</Step>
```

```
</Steps>
```

```
</Tab>
```

```
<Tab title="TypeScript">
```

```
<Steps>
```

```
<Step title="Set your API key">
```

```
Get your API key from the [Anthropic Console]
```

```
(https://console.anthropic.com/settings/keys) and set it as an environment variable:
```

```
```bash
```

```
export ANTHROPIC_API_KEY='your-api-key-here'
```

```
```
```

```
</Step>
```

```
<Step title="Install the SDK">
```

```
Install the Anthropic TypeScript SDK:
```

```
```bash
```

```
npm install @anthropic-ai/sdk
```

```
```
```

```
</Step>
```

```
<Step title="Create your code">
```

```
Save this as `quickstart.ts`:
```

```
```typescript
```

```
import Anthropic from "@anthropic-ai/sdk";
```

```
async function main() {
 const anthropic = new Anthropic();
```

```
 const msg = await anthropic.messages.create({
```

```
 model: "claude-sonnet-4-20250514",
```

```
 max_tokens: 1000,
```

```
 messages: [
```

```
 {
```

```
 role: "user",
```

```
 content: "What should I search for to find the latest developments in
```

```
renewable energy?"
```

```
 }
]
 });
 console.log(msg);
}
```

```
});
```

```
console.log(msg);
```

```
}
```

```
main().catch(console.error);
```

```
```
```

```
</Step>
```

```
<Step title="Run your code">
```

```
```bash
```

```
npx tsx quickstart.ts
```

```
```
```

Example output:

```
```javascript
{
 id: 'msg_01ThFHxad6Bh4TpQ6cHux9t8',
 type: 'message',
 role: 'assistant',
 model: 'claude-sonnet-4-20250514',
 content: [
 {
 type: 'text',
 text: 'Here are some effective search strategies to find the latest renewable
energy developments:\n\n' +
 '## Search Terms to Use:\n' +
 '- "renewable energy news 2024"\n' +
 '- "clean energy breakthroughs"\n' +
 '- "solar wind technology advances"\n' +
 '- "energy storage innovations"\n' +
 '- "green hydrogen developments"\n' +
 '- "offshore wind projects"\n' +
 '- "battery technology renewable"\n\n' +
 '## Best Sources to Check:\n\n' +
 '**News & Industry Sites:**\n' +
 '- Renewable Energy World\n' +
 '- CleanTechnica\n' +
 '- GreenTech Media (now Wood Mackenzie)\n' +
 '- Energy Storage News\n' +
 '- PV Magazine (for solar)...'
 }
],
 stop_reason: 'end_turn',
 usage: {
 input_tokens: 21,
 output_tokens: 302
 }
}
```
```

</Step>

</Steps>

</Tab>

<Tab title="Java">

<Steps>

<Step title="Set your API key">

Get your API key from the [Anthropic Console]

(<https://console.anthropic.com/settings/keys>) and set it as an environment variable:

```
```bash
export ANTHROPIC_API_KEY='your-api-key-here'
```
```

</Step>

<Step title="Install the SDK">

Add the Anthropic Java SDK to your project. First find the current version on [Maven Central](<https://central.sonatype.com/artifact/com.anthropic/anthropic-java>).

Gradle:

```
```gradle
implementation("com.anthropic:anthropic-java:1.0.0")
```
```

Maven:

```
```xml
```

```
<dependency>
 <groupId>com.anthropic</groupId>
 <artifactId>anthropic-java</artifactId>
 <version>1.0.0</version>
</dependency>
```
```

</Step>

<Step title="Create your code">
Save this as `QuickStart.java`:

```
```java
import com.anthropic.client.AnthropicClient;
import com.anthropic.client.okhttp.AnthropicOkHttpClient;
import com.anthropic.models.messages.Message;
import com.anthropic.models.messages.MessageCreateParams;

public class QuickStart {
 public static void main(String[] args) {
 AnthropicClient client = AnthropicOkHttpClient.fromEnv();

 MessageCreateParams params = MessageCreateParams.builder()
 .model("claude-sonnet-4-20250514")
 .maxTokens(1000)
 .addUserMessage("What should I search for to find the latest
developments in renewable energy?")
 .build();

 Message message = client.messages().create(params);
 System.out.println(message.content());
 }
}
```
```

</Step>

<Step title="Run your code">
```bash  
javac QuickStart.java  
java QuickStart  
```

****Example output:****

```
```java
[ContentBlock{text=TextBlock{text=Here are some effective search strategies to find
the latest renewable energy developments:
```

```
Search Terms to Use:
- "renewable energy news 2024"
- "clean energy breakthroughs"
- "solar/wind/battery technology advances"
- "energy storage innovations"
- "green hydrogen developments"
- "renewable energy policy updates"
```

```
Best Sources to Check:
```

```
- **News & Analysis:** Reuters Energy, Bloomberg New Energy Finance, Greentech Media
- **Industry Publications:** Renewable Energy World, PV Magazine, Wind Power
```

Engineering

```
- **Research Organizations:** International Energy Agency (IEA), National Renewable
Energy Laboratory (NREL)
- **Government Sources:** Department of Energy websites, EPA clean energy updates
```

```
Specific Topics to Explore:
```

```
- Perovskite and next-gen solar cells
```

- Offshore wind expansion
- Grid-scale battery storage
- Green hydrogen production..., type=text}}]

</Step>

</Steps>

</Tab>

</Tabs>

## ## Next steps

Now that you have made your first Anthropic API request, it's time to explore what else is possible:

<CardGroup cols={3}>

<Card title="Features Overview" icon="brain-circuit" href="/en/docs/build-with-claude/overview">

Explore Claude's advanced features and capabilities.

</Card>

<Card title="Client SDKs" icon="code-simple" href="/en/api/client-sdks">

Discover Anthropic client libraries.

</Card>

<Card title="Anthropic Cookbook" icon="hat-chef"

href="https://github.com/anthropics/anthropic-cookbook">

Learn with interactive Jupyter notebooks.

</Card>

</CardGroup>