

[Data & AI Community Day Durban \(/tags/data-ai-community-day-durban\)](#)[Generative AI \(/tags/generative-ai\)](#)[Claude Code \(/tags/claude-code\)](#)[Anthropic \(/tags/anthropic\)](#)[AI-assisted Coding \(/tags/ai-assisted-coding\)](#)[Event Management System \(/tags/event-management-system\)](#)

Building an Event Management System with Claude Code: Claude Code Installation and Initialisation

Posted by nielsb on Tuesday, July 29, 2025

Claude Code Version: This post is based on Claude Code v2.x (December 2025). Installation methods may vary for earlier versions.

***Editor's Note (December 2025):** This post has been updated to reflect the latest Claude Code installation methods. Claude Code can now be installed directly on Windows without WSL or Git for Windows, and no longer requires `Node.js` for installation. However, we still cover `Node.js` installation as it will be used throughout this series for our event management system development.*

If you follow my blog or LinkedIn, you know I'm a co-organiser of the **Data & AI Community Day Durban** (<https://aimldatadurban.org/>) events. Juggling the practical challenges of organising events can be rewarding. Still, I'll admit that managing contacts and logistics comes with its share of headaches. If you've faced similar struggles, you're not alone.

This post marks the launch of a series detailing my journey to develop an AI-driven contact and event management system.

- To see what other posts there are in the series, go to: **Building an Event Management System with Claude Code** (</contact-event-claude-code>).

The goal is to efficiently manage contacts, streamline communications, and generate actionable reports for the **Data & AI Community Day Durban** (<https://aimldatadurban.org/>) events. At **Derivco**, as an Architect Lead, my team leverages AI to accelerate development and tackle complexity. I want to use **Claude Code** to apply these principles to this project and share the process here.

Problem Statement

Brevo (<https://www.brevo.com/>) (formerly Sendinblue) has been our event and contact management system for our **Data & AI Community Day Durban** events for a couple of years now, and it has been satisfactory. However, how we want to do things may not match fully how Brevo does it, so limitations have become apparent:

- Workflows are too generic for our events.
- Limited flexibility for managing contacts and participants.
- Reporting lacks the necessary insights for our needs.

The limitations above are some of the reasons I'm developing a new system. I'll explore these issues and their impact in more detail in a future post.

Why Claude Code?

Suppose you're not familiar with Claude Code. In that case, it's Anthropic's agentic command-line tool that allows developers to delegate coding tasks directly from their terminal. Think of it as having an AI pair programmer who can understand context, write code, run tests, and even help with debugging—all from your command line. The appeal for me is multifaceted:

- Speed of development:** Instead of spending hours researching APIs or writing boilerplate code, I can focus on the business logic and user experience
- Learning opportunity:** I can explore new technologies and patterns with AI assistance
- Documentation:** Every interaction is naturally documented, making it easier to understand decisions later
- Quality assurance:** AI can help catch potential issues early in the development process

So, what am I aiming for with this project?

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Before diving into the installation, let me outline what I’m planning to build:

Core Features

- Event creation and management
- Contact management with segmentation
- Participant registration with custom fields
- Automated email communications
- Comprehensive reporting and analytics

The features may be developed in stages. Initially, communications and reporting/analytics might come later.

Technical Goals

Apart from leveraging Claude Code for rapid development, I have some technical goals for this project:

- Modern, responsive web application
- Clean, maintainable codebase
- Robust testing strategy
- Scalable architecture
- Security best practices

Documentation Goals

I want to document the entire process, from initial setup to deployment, so that others can learn from my experience and benefit from it. This includes:

- Share the entire development journey
- Demonstrate practical AI-assisted coding
- Provide insights for other developers
- Create a resource for event organizers

Installing Claude Code

To get started with Claude Code, you'll need to install it on your machine (duh). The Claude Code installation is now straightforward on all platforms. The tool is self-contained and doesn't require `Node.js` or other runtime dependencies for Claude Code itself to function.

NOTE: While Claude Code itself doesn't require `Node.js` any more, we'll be installing `Node.js` later in this post. We'll install it as we will be using it a bit later in this post, and also potentially as part of the event management system we are building.

Prerequisites

Before installing Claude Code, ensure you have the following prerequisites:

- `curl` for file downloads (most likely pre-installed on both macOS and Windows).
- A **Claude.ai** (<https://claude.com/product/claude-code>) subscription, or a **Claude Console** (<https://console.anthropic.com/>) account.

For Claude.ai, you need a paid subcscription to use Claude Code. If you have a Claude Console account, you can use an API key to authenticate Claude Code.

Installing Claude Code on Windows

Windows users now have a simple installation path - no WSL or Git for Windows required!

To install Claude Code on Windows you use the PowerShell `irm` (`Invoke-RestMethod`) command:

1	<code>irm https://claude.ai/install.ps1 iex</code>
---	--

Code Snippet 1: *Install Claude Code on Windows*

The `irm` command downloads downloads the installation script from the Claude Code website and pipes it to `iex` (`Invoke-Expression`), which runs the script.

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Claude Code is now installed on your Windows machine. Jump to the Verification section to complete the setup.

Installing Claude Code on macOS

The recommended (by Anthropic) way to install Claude Code on macOS is using `curl` :

1	<code>curl -o- https://claude.ai/install.sh bash</code>
---	---

Code Snippet 2: Using curl to Install Claude Code on macOS

As with the Windows installation, the `curl` command downloads the installation script from the Claude Code website and pipes it to `bash` , which runs the script.

Even though using `curl` is the recommended way to install Claude Code on macOS, I prefer to use Homebrew:

1	<code>brew install --cask claude-code</code>
---	--

Code Snippet 3: Using Homebrew to Install Claude Code on macOS

With Claude Code now installed on either your Windows or macOS machine, proceed to the next section to verify the installation.

Verification

Let's verify that Claude Code is installed correctly.

Verifying Installation

Whether on Windows or on macOS, you can verify the installation by running the following command in your terminal (Command Prompt or PowerShell on Windows, Terminal on macOS):

1	<code>claude --version</code>
---	-------------------------------

Code Snippet 4: Verify Claude Code Installation

If the installation was successful, you should see the version number of Claude Code displayed, and you are ready to use Claude Code for the first time.

Initialising Claude Code

When you start Claude Code for the first time, it performs an initial setup, which we will examine in this section.

1. In your terminal (on Windows, use the WSL/distro terminal), create a directory to test Claude Code:

1	<code>mkdir claude-test</code>
2	<code>cd claude-test</code>

Code Snippet 5: Create Project Directory

2. In the directory you `cd` :ed into, start Claude Code:

1	<code>claude</code>
---	---------------------

Code Snippet 6: Start Claude Code

When you run the command in *Code Snippet 6*, it starts Claude Code's interactive shell. If this is the first time you run it, you will be prompted to perform some initial configuration and log in to Anthropic. You will see output similar to the following:

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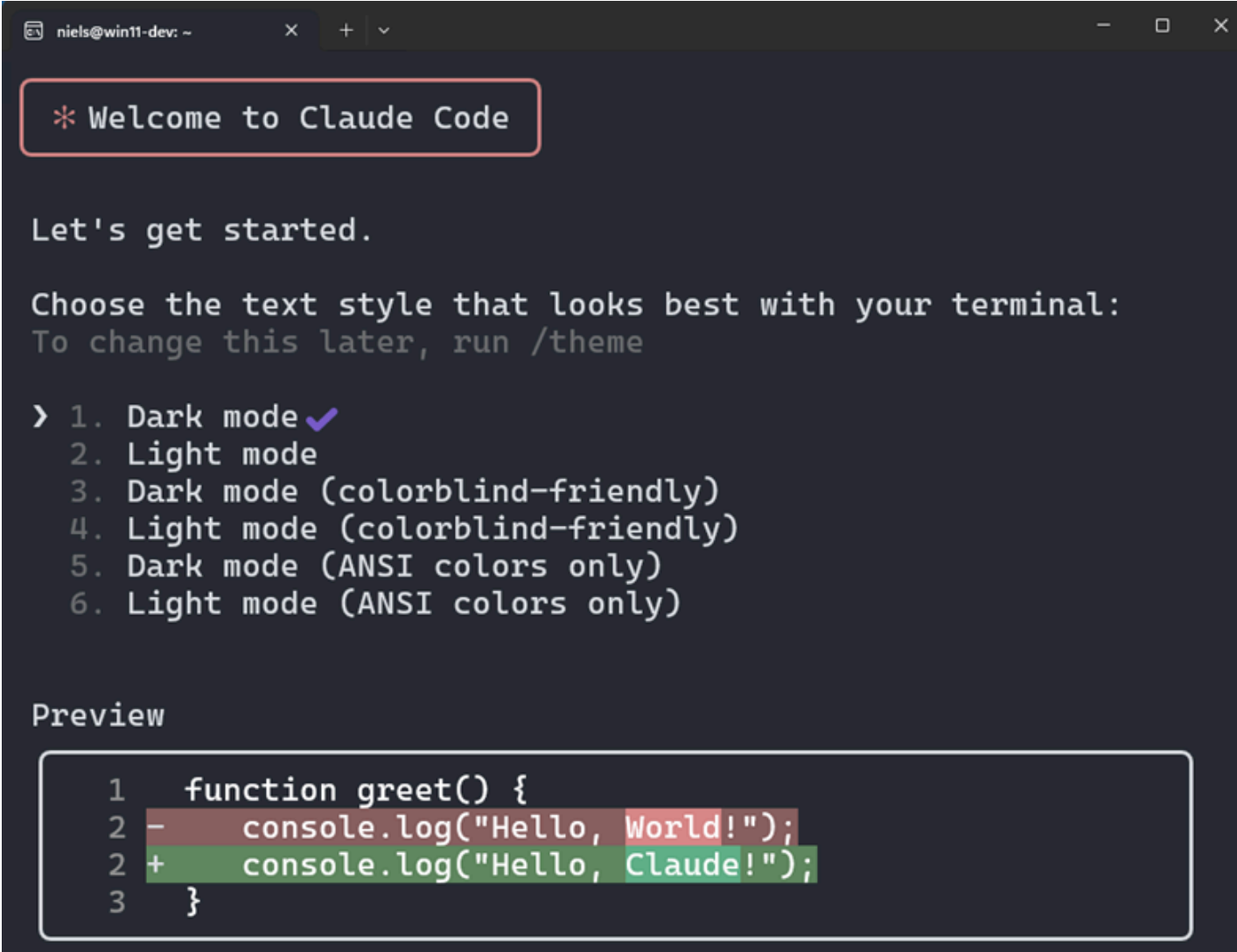


Figure 1: Claude Code Text Style

As you see in *Figure 1*, Claude Code asks you to choose a text style. After selecting a text style, you will be asked how to log in to Anthropic:

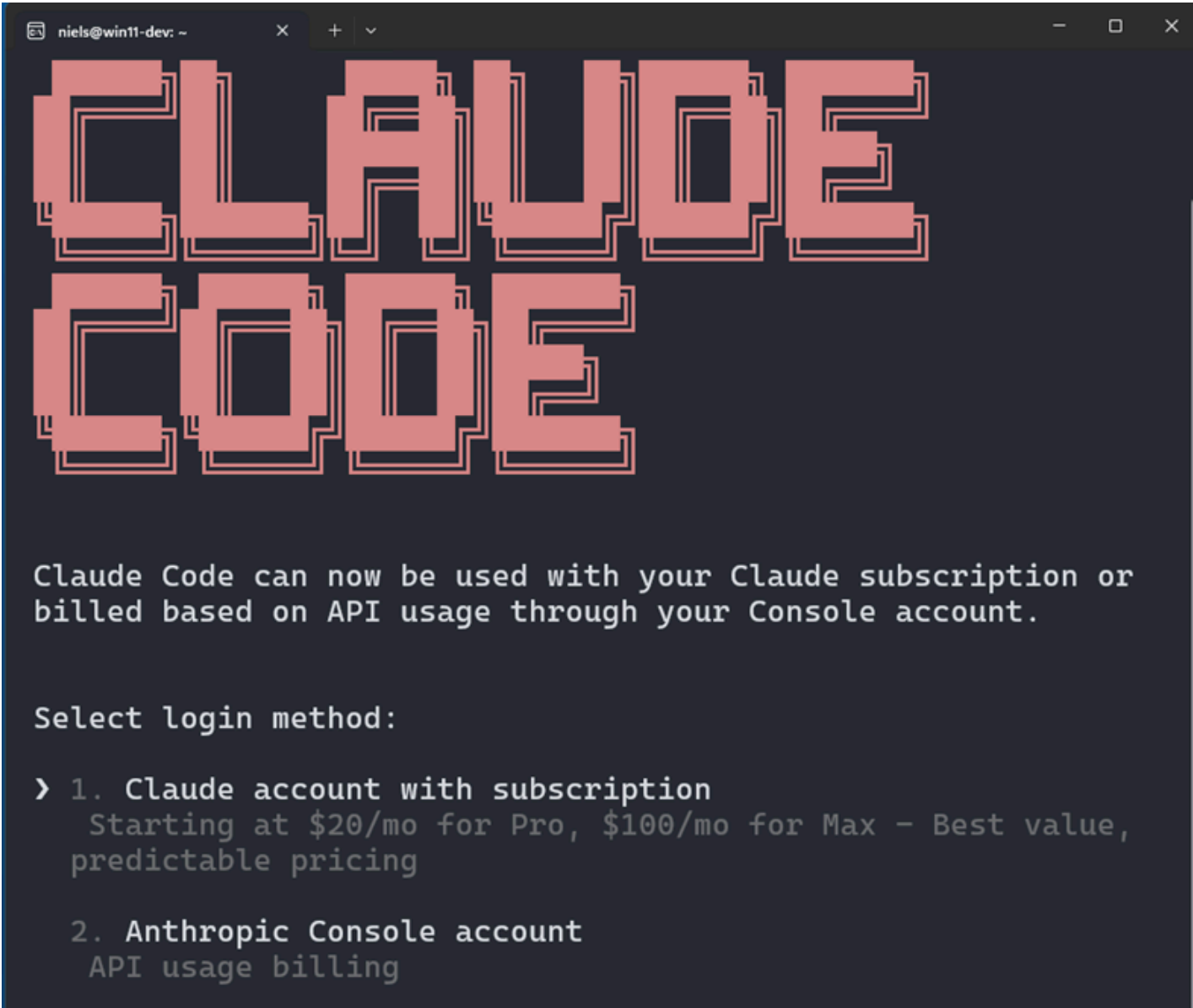


Figure 2: Claude Code Login Prompt

Choose whether you want to log in using a subscription or an API key. If you choose the subscription option, it will open your default web browser and ask you to authorize Claude Code to connect to your Claude chat account:

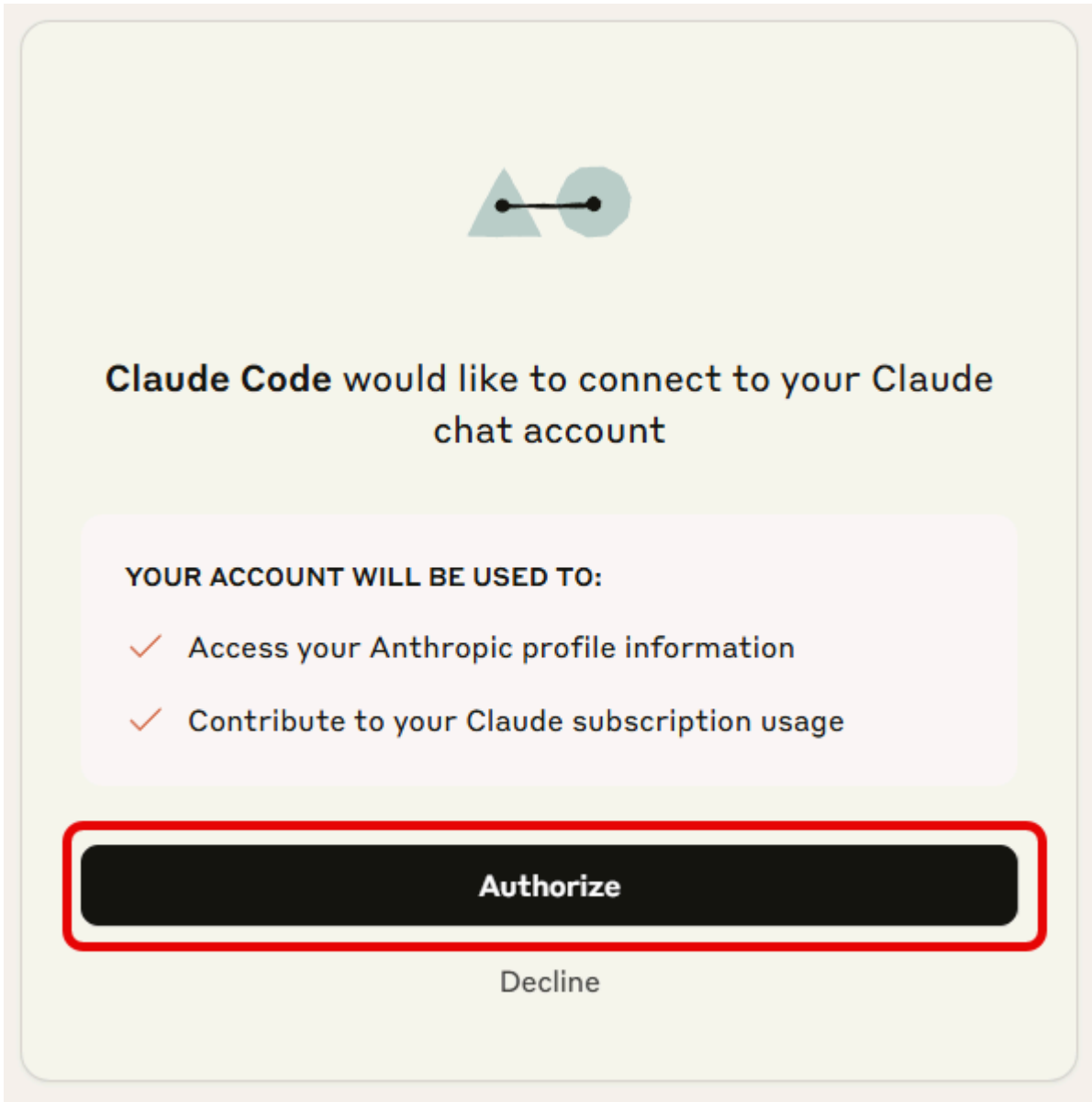


Figure 3: Claude Code Authentication Prompt

You just click on the **Authorize** button outlined in red in *Figure 3*. Clicking on the button authenticates you against your Claude subscription and opens a new page with an authentication code:

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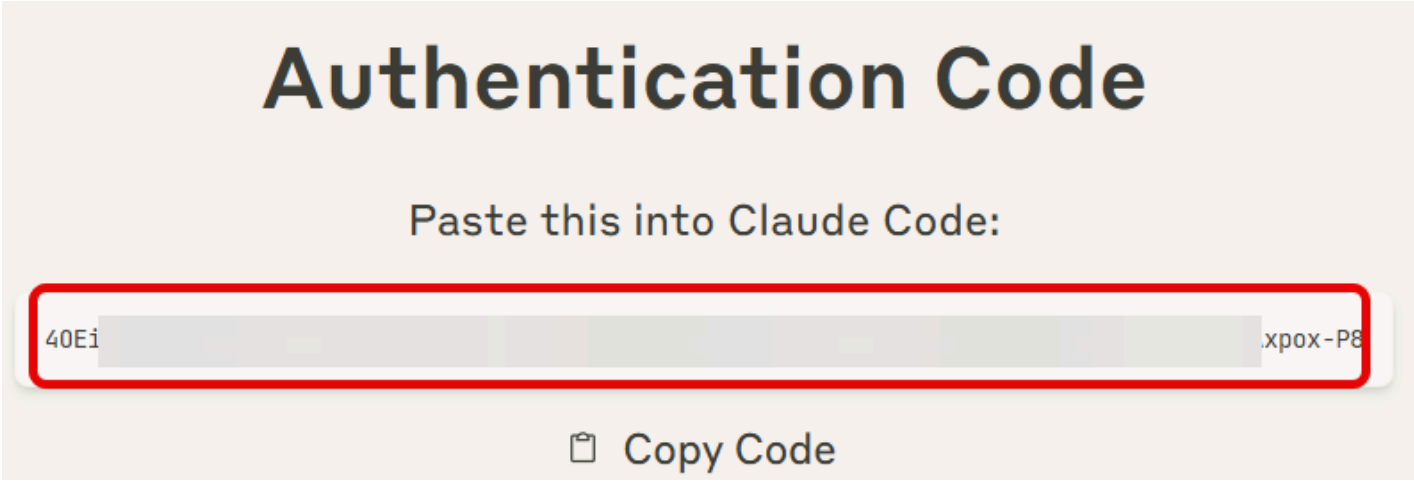


Figure 4: Claude Code Authentication Code

When you selected the subscription option as per *Figure 3*, the interactive shell changed to a form where you enter the authentication code:

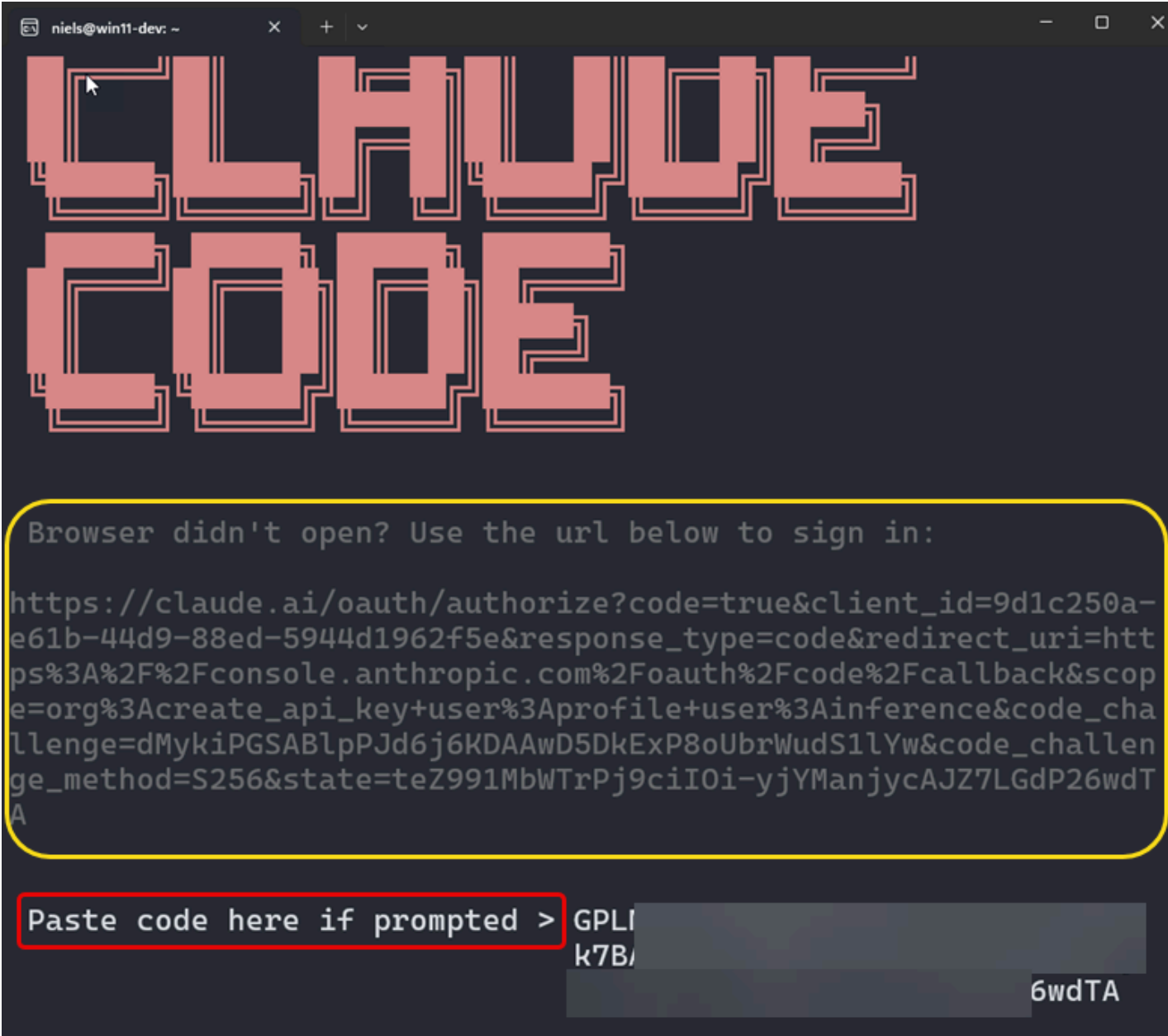


Figure 5: Claude Code Interactive Shell Authentication

Enter your authentication code that you received in the browser, and press `Enter` .

NOTE: If your browser doesn't open automatically (*Figure 2*), you can copy the URL from the terminal as in *Figure 5* (outlined in yellow), open the URL in a browser. You will see the same as in *Figure 3* and proceed from there.

You see the following when you click `Enter` after entering the code:

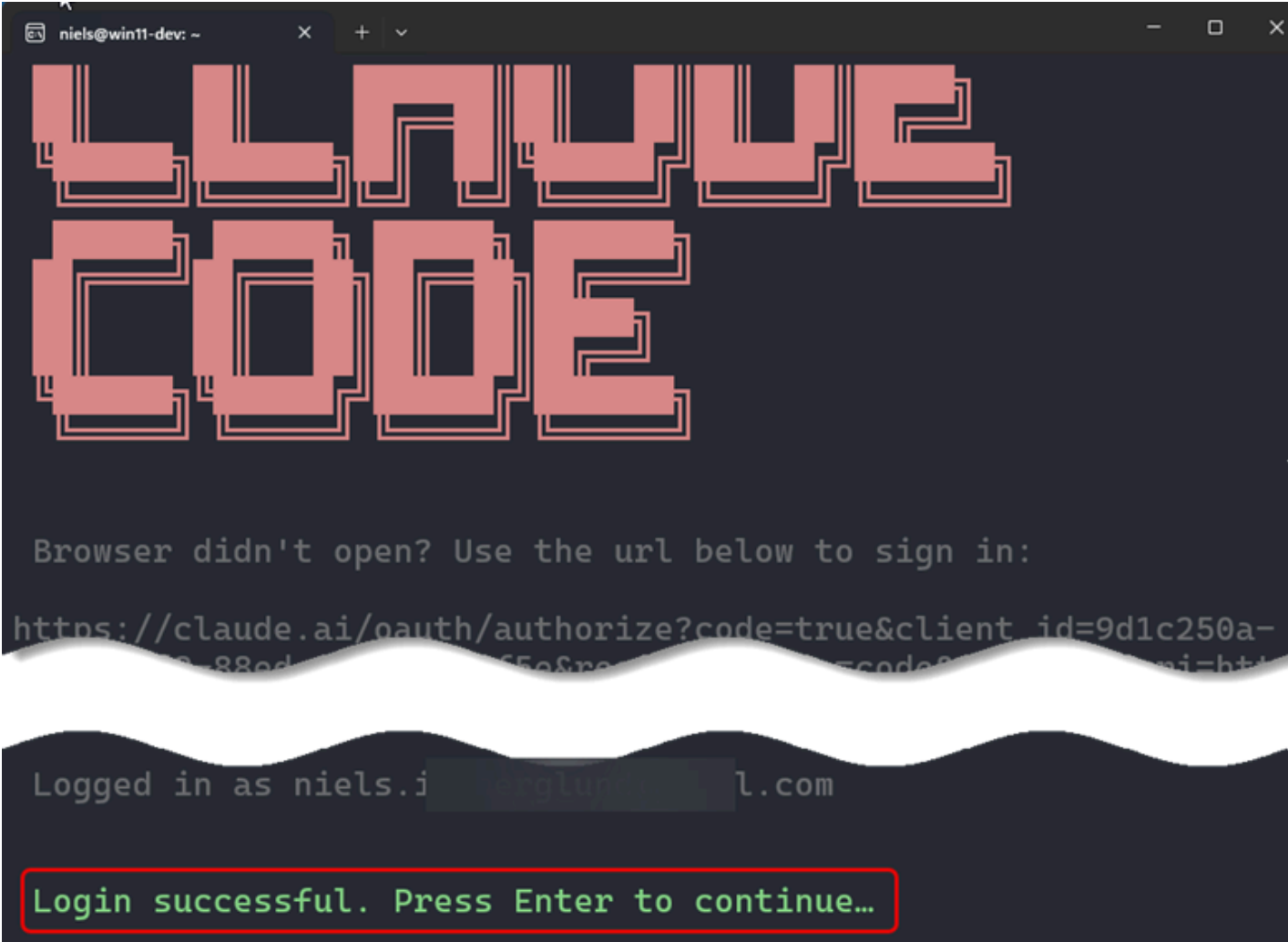


Figure 6: Claude Code Login Confirmation

Having logged in successfully, you see a message confirming that you are logged in, as in *Figure 6* above, and when you press `Enter` again, you are almost there:

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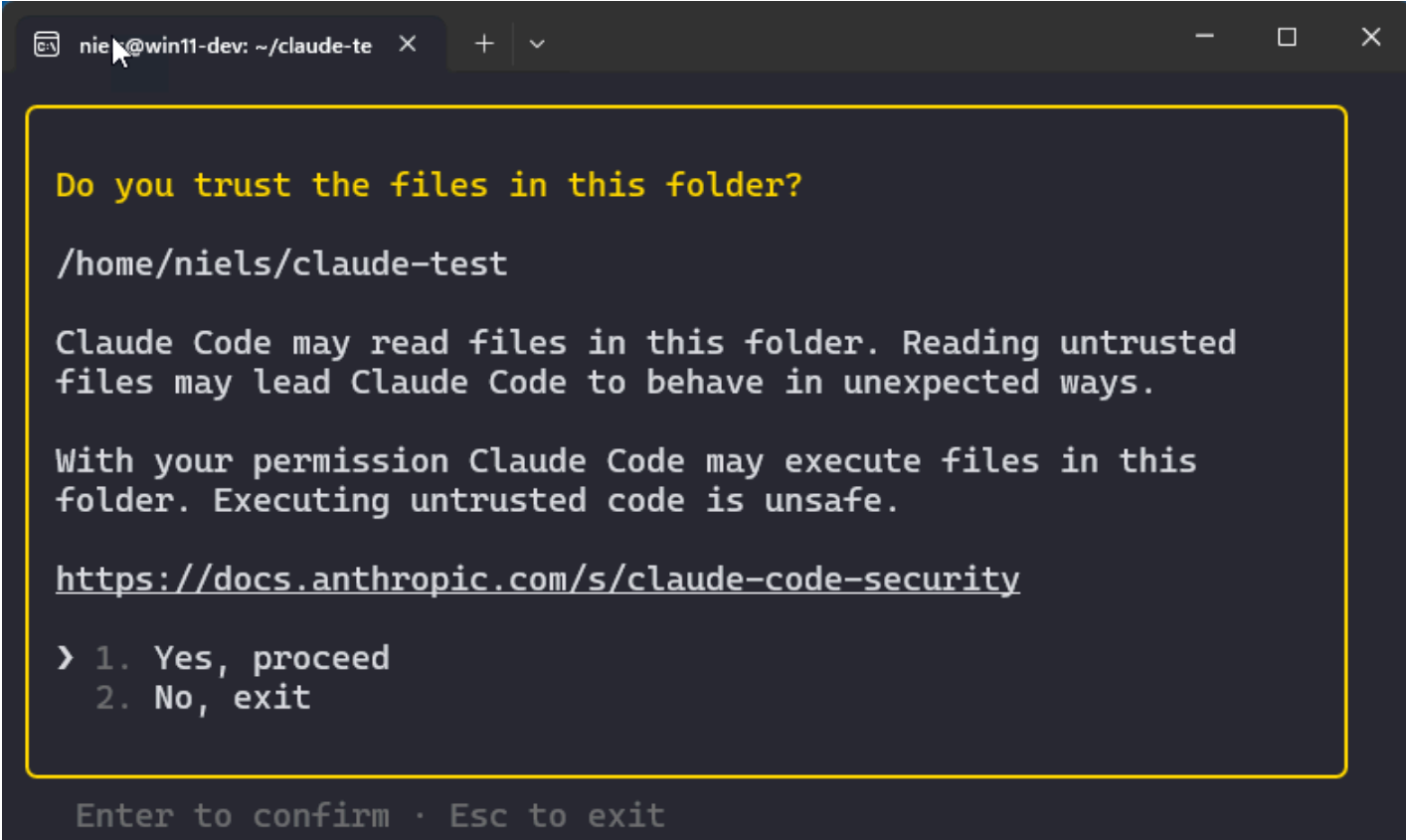


Figure 7: Claude Code Trust Files

In *Figure 7*, you are asked to trust the files in the current directory. This is a security measure to ensure that Claude Code can access the files it needs to work with.

NOTE: Whenever you start Claude Code in a new directory, you will be asked to trust the files in that directory.

Press `Enter` to trust the files:

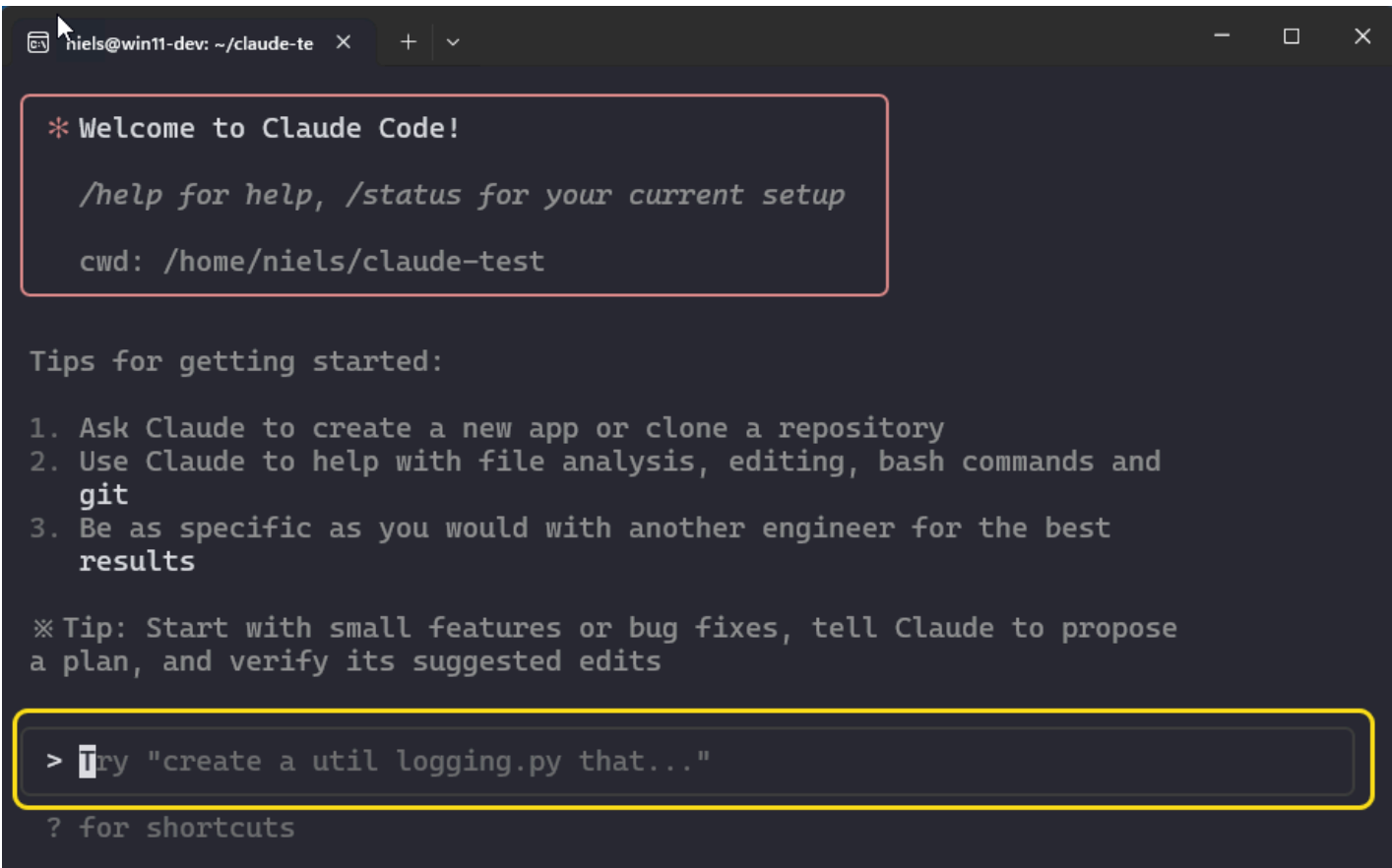


Figure 8: Claude Code CLI

You are now in the Claude Code shell.

Before we look at using Claude Code, we will take a small detour to install `Node.js`, as we will be using it later in this post.

Installing Node.js

While Claude Code is now installed, let us set up `Node.js`, so we can use it later.

We have already said that Claude Code requires `Node.js` version 18 or newer. Since we may want to use different versions of `Node.js` in our development projects, I recommend using `nvm` (Node Version Manager) to manage `Node.js` versions. Here are the steps (in your Terminal/Powershell/Command shell):

1. Install `nvm` (Node Version Manager):

```
1 curl -o- https://raw.githubusercontent.com/nvm-sh/nvm/v0.40.3/install.sh | bash
```

Code Snippet 7: Install nvm

Close and reopen your terminal to load `nvm`.

2. Verify that `nvm` is installed correctly:

```
1 nvm -v
```

Code Snippet 8: Check nvm Version

Having installed `nvm`, we can now install `Node.js`:

3. Install the latest long-term support (LTS) version of `Node.js`:

```
1 nvm install --lts
```

Code Snippet 9: Install Node.js

4. Verify that `Node.js` is installed correctly:

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```
1 node -v
```

Code Snippet 10: Verify Node.js Installation

Using Claude Code

Claude Code is a powerful tool that can help you with various coding tasks. You can use it to generate code snippets, refactor code, write tests, and more. You can even ask it to create entire applications/systems based on your requirements. This is what we will do in subsequent posts in this series. For now, however, just do a couple of simple things to get a feel for how it works.

The assumption is that you are in the Claude Code interactive shell, as in *Figure 8*. If you are not, start it by running the command `claude` in your terminal from within the directory you want to run Claude Code.

Let’s start by examining the available shortcuts. To list shortcuts, you enter `?` in the Claude Code’s textbox (highlighted in yellow in *Figure 9*). That displays a list of shortcuts that you can use:

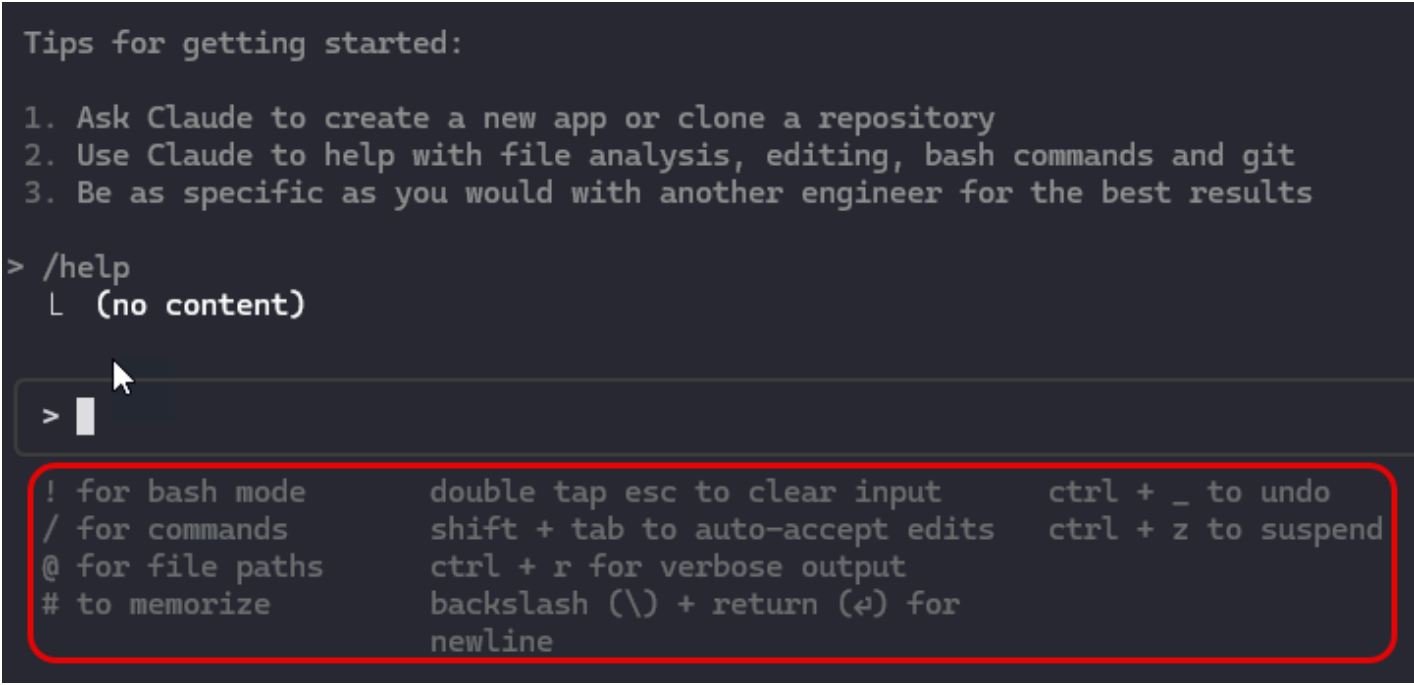


Figure 9: Claude Code Shortcuts

These shortcuts can help you navigate and use Claude Code more efficiently.

Let’s try a simple command to get a feel for how Claude Code works. You can type `/help` in the input box and press `Enter`. This will display a list of commands that you can use. I will not discuss all the commands here. I leave that up to you to try out. However, I do want to highlight `Usage Modes`, which you see when you execute `/help`:

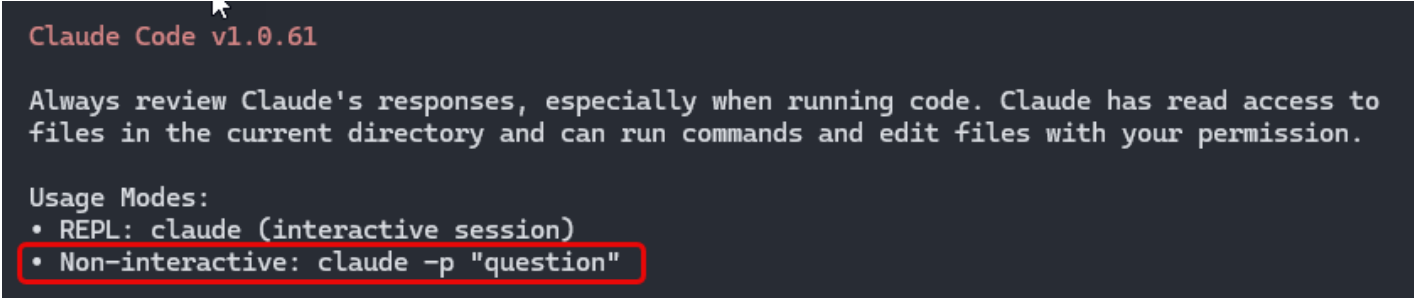


Figure 10: Claude Code Usage Modes

This illustrates the various usage modes of Claude Code. Why I bring this up is that in addition to the interactive shell, `REPL` mode in *Figure 11* above, you can use Claude Code almost as a chatbot:

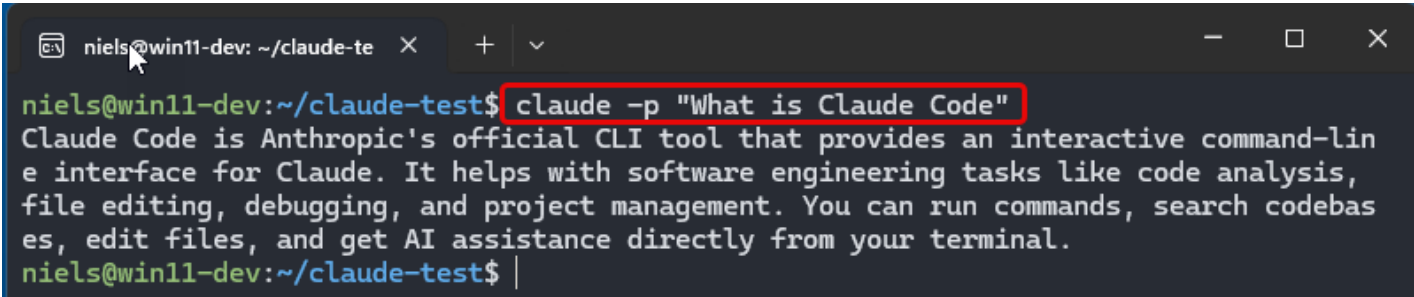


Figure 11: Claude Code Chatbot Mode

In *Figure 11*, you see that Claude Code is running in a non-interactive mode, where you can ask it questions and get answers without having to type commands. This is similar to how you would interact with a chatbot.

Write Code

Now, let’s finish this post by asking Claude Code to write some code. We want Claude Code to create a simple “Hello World” application in `Node.js`. In the interactive shell, type the following command:

```
1 In the current directory, can you please create a simple Hello World Node.js application wi
```

Code Snippet 11: Claude Code Command

When you press `Enter`, Claude Code will start generating the code for you:

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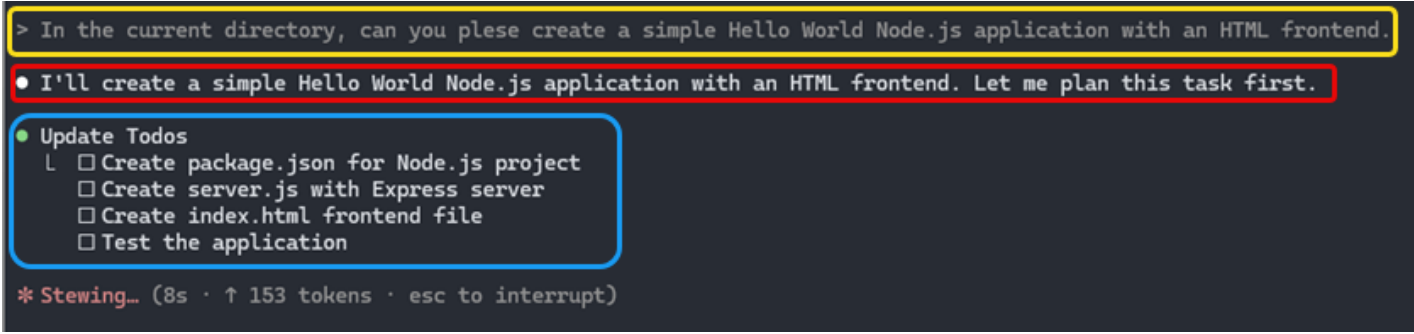


Figure 12: Claude Code Generating Code

As you see in *Figure 12*, based on the instructions I gave Claude Code (outlined in yellow), it starts planning the task (outlined in red). Part of the planning is creating and updating **Todos** (outlined in blue). After planning of the **Todos**, Claude Code starts implementing the **Todos**:

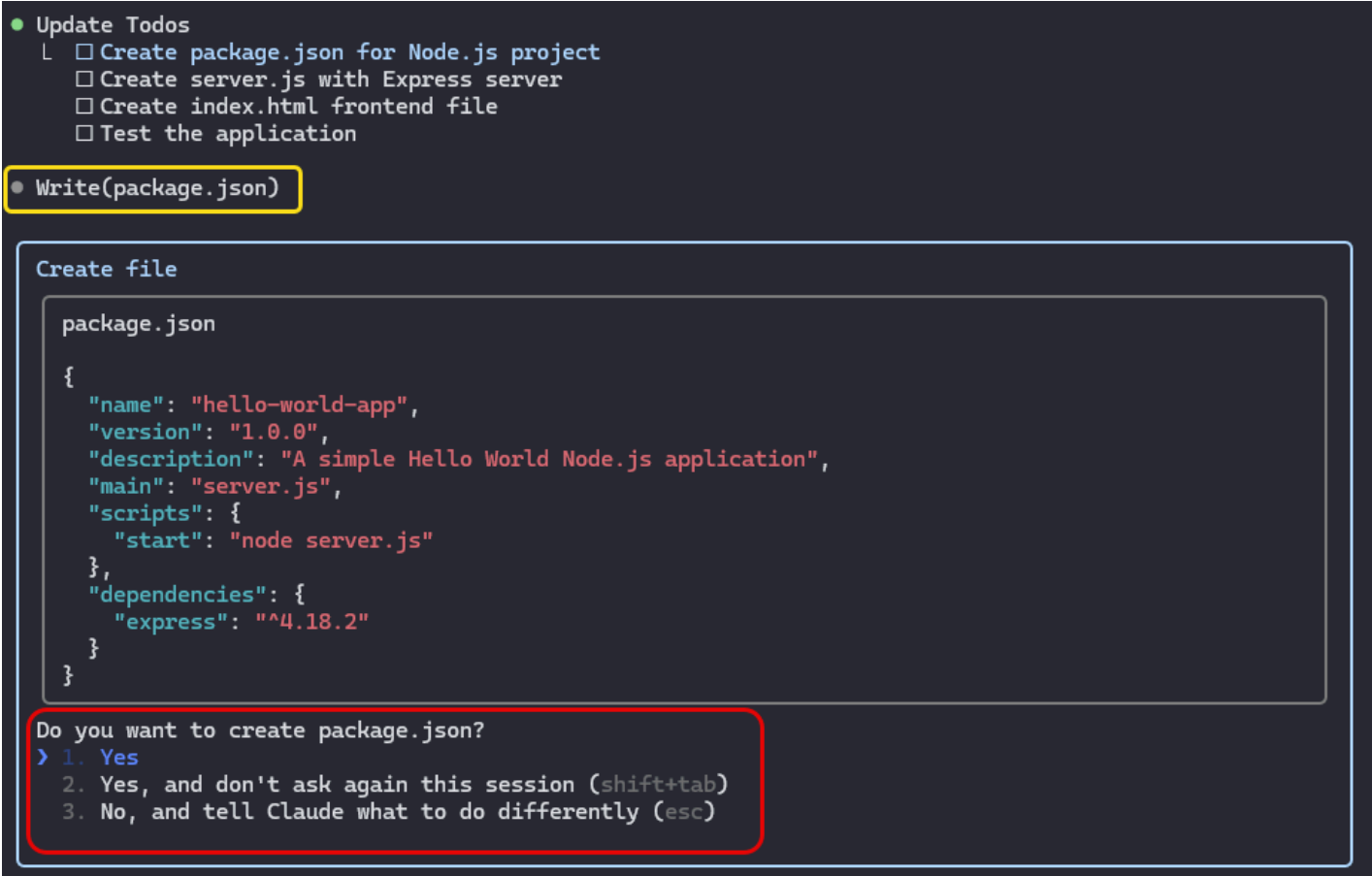


Figure 13: Claude Code Implementing Todos

As shown in *Figure 13*, Claude Code is implementing the **Todos** it created during the planning phase. It creates a new file called `package.json` as per the plan. Before it creates the file, it asks you to confirm that you want to create the file (outlined in red in *Figure 13*). Claude Code will, by default, do this for all files it creates. Pausing and asking for each file can be time-consuming, so you have the option to suppress this behaviour. You see the options outlined in red in *Figure 13*. I suggest you do not suppress this behaviour until you are comfortable with Claude Code and how it works.

Eventually, after having created the required files, Claude Code reaches the **Test the application** stage. Here, it understands that `npm` is needed to run the application, and asks you if you want to install `npm`:

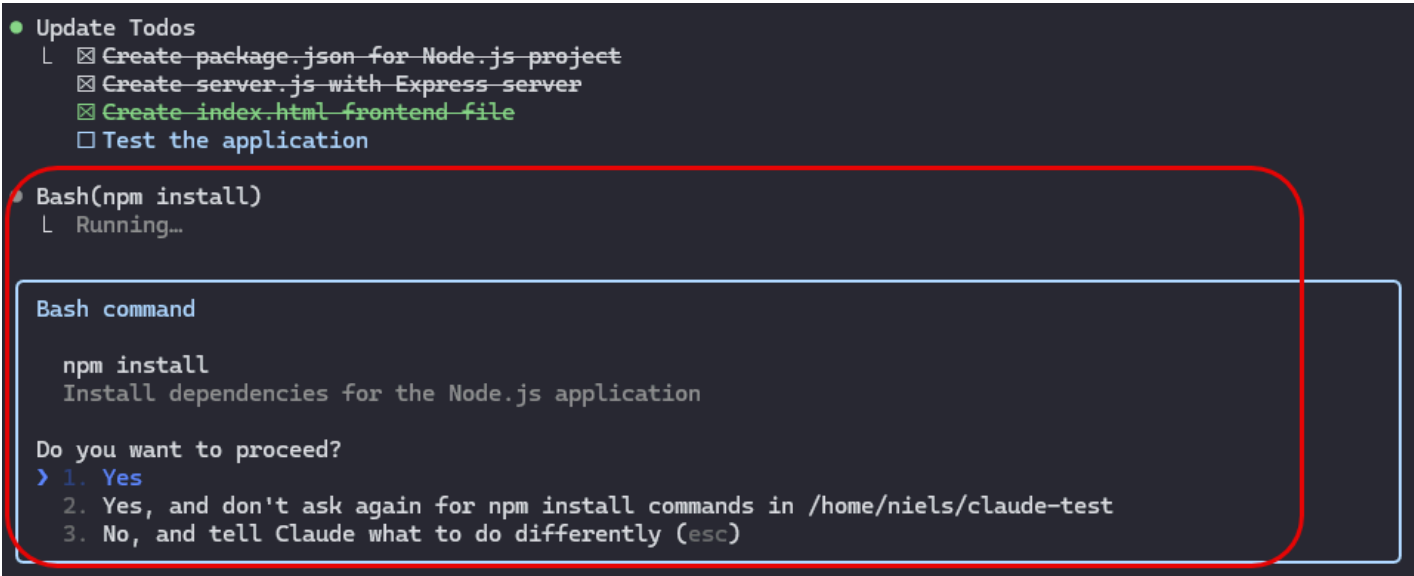


Figure 14: Claude Code Asking to Install npm

After you accept the installation of `npm`, Claude Code will install it for you and finish the code creation process:

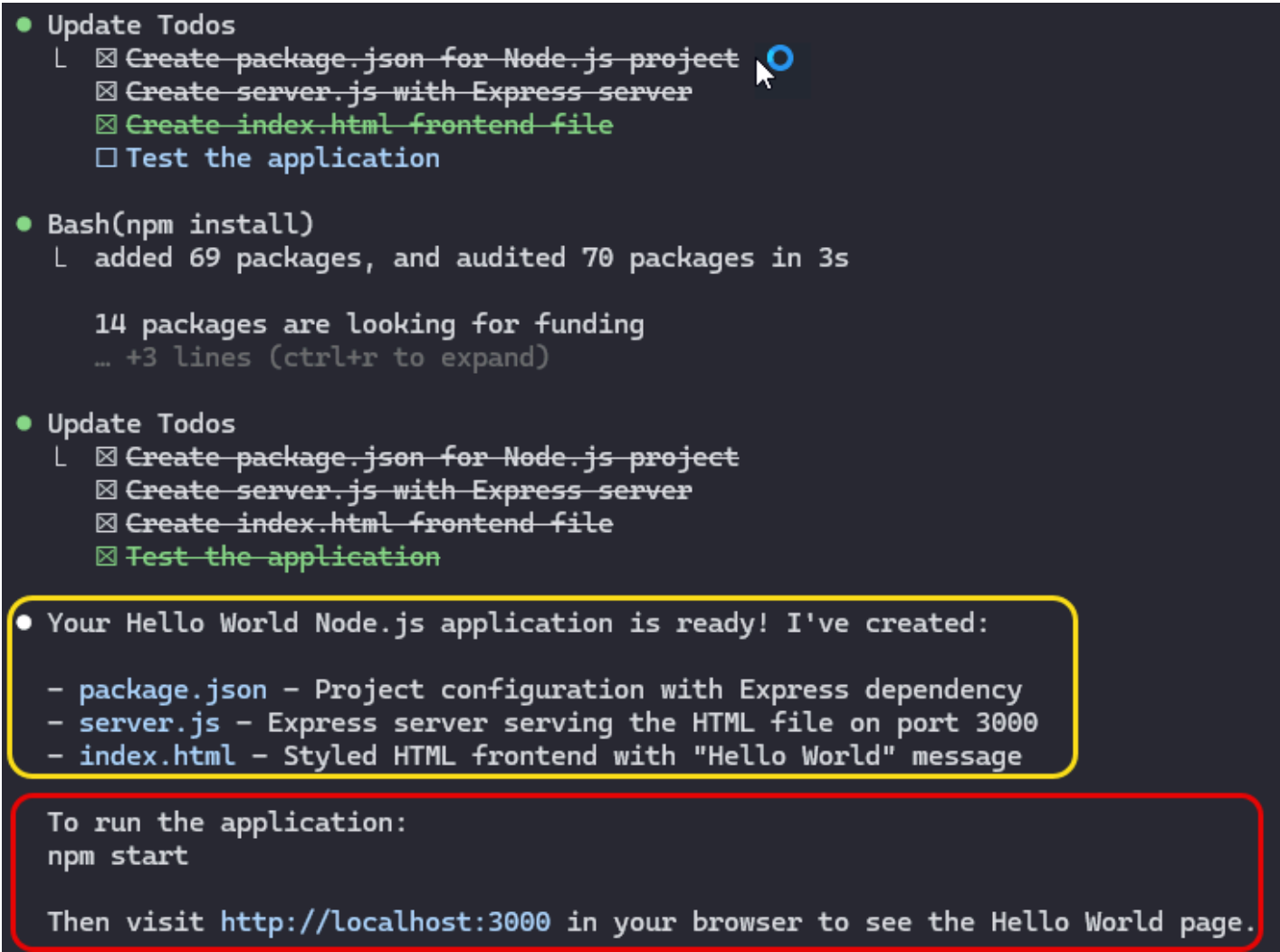


Figure 15: Claude Code Finished Creating Application

As per *Figure 15*, you can now run the application by typing: `npm start` in the terminal, and then browsing to `http://localhost:3000`:

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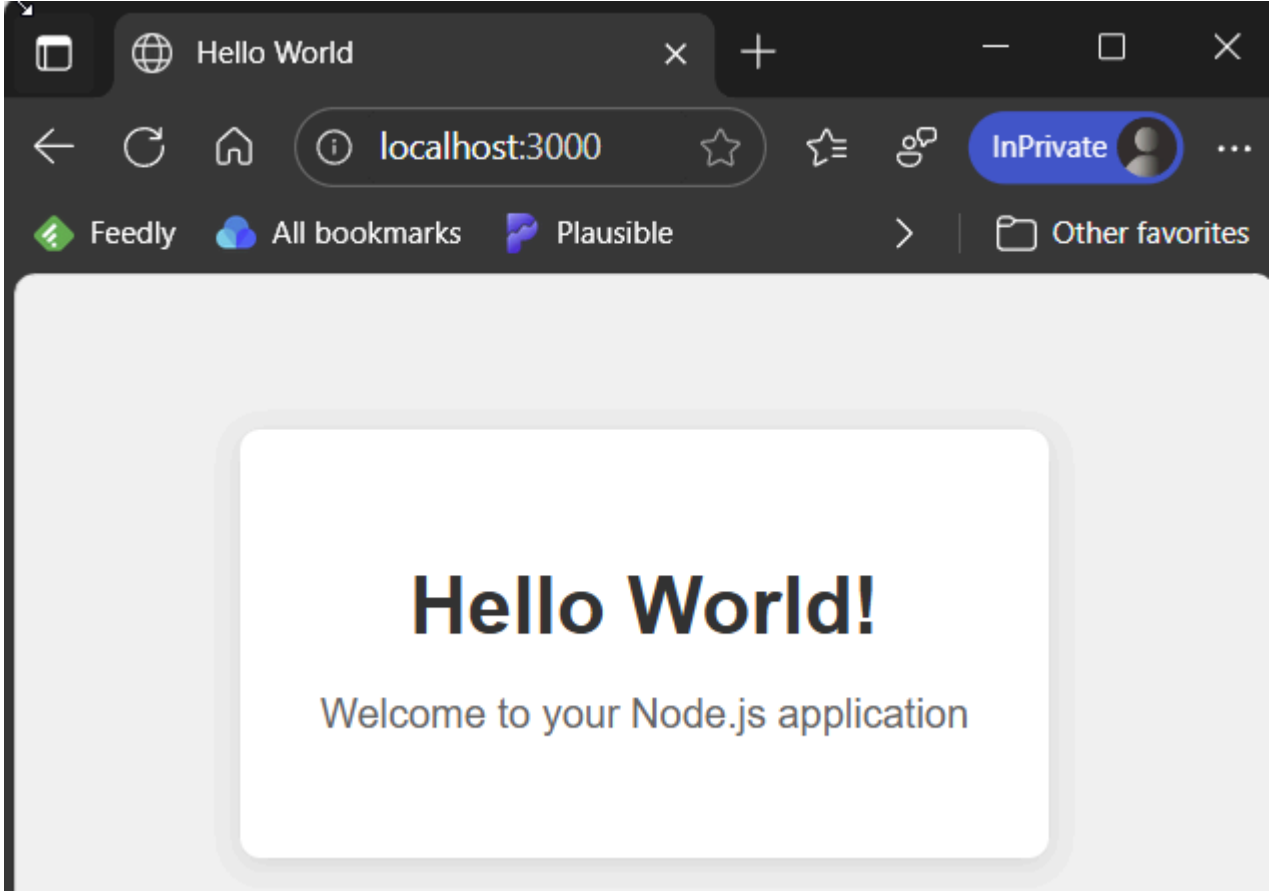


Figure 16: Running Hello World Application

Congratulations! You have successfully created a simple “Hello World” application using Claude Code.

What’s Next?

Now that you have installed and initialised Claude Code, you can theoretically start using it to build your event management system. However, as a developer, you are likely accustomed to developing in an IDE or code editor.

You do not have to develop in the Claude Code shell, but you can hook it up to your favourite IDE. In the next post, we will explore how to set up your development environment to work seamlessly with Claude Code and your preferred IDE.

Summary

This inaugural post marks the beginning of a comprehensive series that documents the journey of building a custom contact and event management system using Claude Code, Anthropic’s AI-assisted command-line development tool. We outlined the motivation for moving away from Brevo’s generic event management platform to create a tailored solution that better serves the community’s specific needs. The post establishes clear project goals, including core features like event creation, contact management, and automated communications, alongside technical objectives focused on modern architecture, maintainable code, and robust testing practices.

The post provides detailed installation instructions for Claude Code on both Mac and Windows systems. Through step-by-step guidance covering everything from initial installation to authentication and first usage, you learn how to configure Claude Code’s interactive shell and experience your first AI-assisted development task by creating a simple Node.js “Hello World” application. This hands-on demonstration showcases Claude Code’s planning capabilities, file creation process, and the collaborative nature of AI-assisted development, setting the foundation for the more complex event management system that will be built throughout the series.

Stay tuned for more updates as we continue to build this system and share our experiences along the way.

Finally

That’s all for now. I hope you find this information valuable. Please share your thoughts and ideas on this post, or ping (mailto:niels.it.berglund@gmail.com) me if you have any suggestions. Your input is highly valued and can help shape the direction of our discussions. If you found this post helpful, please consider sharing it with your network. Follow me on LinkedIn (https://www.linkedin.com/in/nielsberglund/) for more updates on this project and other AI-related topics.

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