



THE FUNDAMENTALS OF EFFECTIVE TECHNICAL WRITING

Hrittik Roy

An abstract geometric pattern consisting of several overlapping, irregular white lines on a black background. The lines form a complex, layered structure that resembles a stylized, multi-pointed star or a series of nested, slightly offset shapes. The overall effect is one of depth and complexity.

WHY LISTEN TO
ME?

ABOUT ME (@HRITTIKHERE)

🥑 @ LOFT LABS

GitHub Campus Expert

CNCF AMBASSADOR

Google Venkat Scholar

HRITTIK ROY

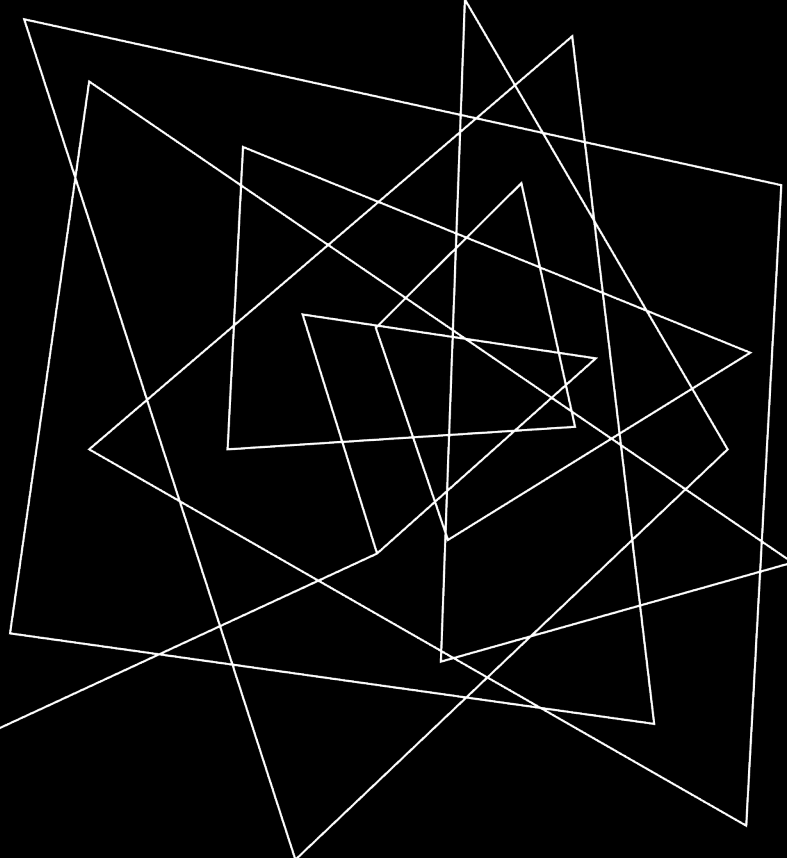


MORE OF ME (120 + ARTICLES)



FROM [HTTPS://GITHUB.COM/HRITTIKHERE/BLOGS](https://github.com/hrittikhere/blogs)

WHY WRITE?



WHAT DOES IT
MEAN TO BE A
TECHNICAL
WRITER?



WHY DOES IT MAKE
SENSE TO WRITE?

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HOW DO YOU GET
STARTED?

EXERCISE

- What motivates you to write?

TYPES OF ARTICLES

IN DEPTH GUIDE

Technology decision-makers learning about a topic, but not looking for a specific tutorial yet

TUTORIAL

Hands-on software developers trying to learn a new skill or solve very specific problem

ROUNDUP

Developers comparing different options for solving a problem

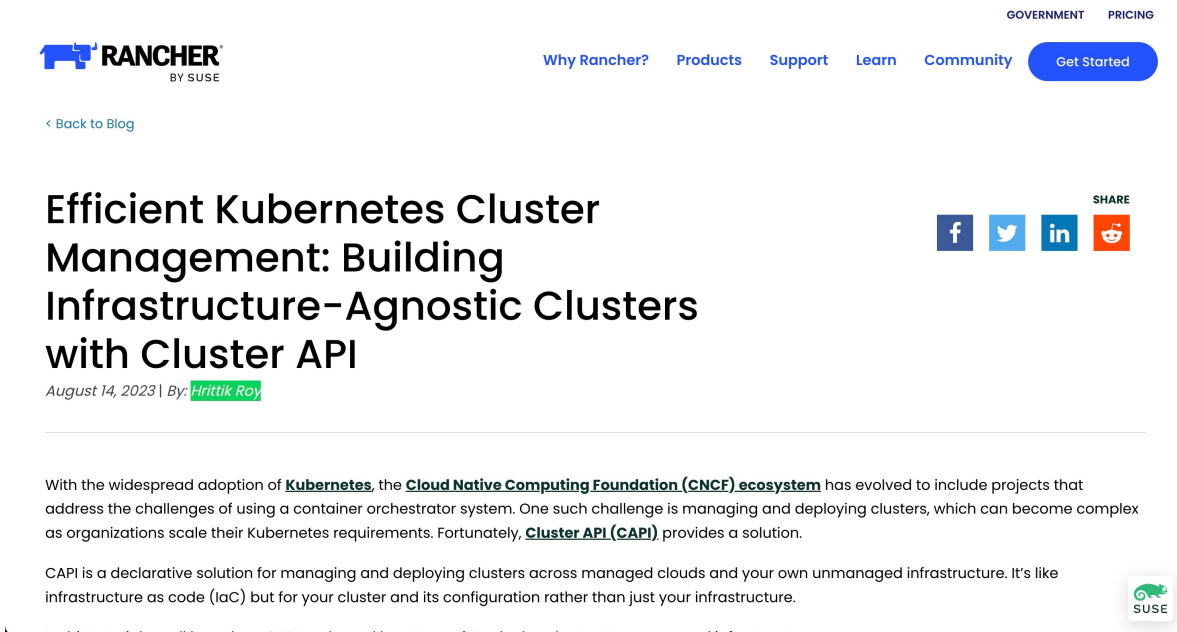
COMPARISON

Developers comparing different options for solving a problem

PERSUASION

Developers comparing different options for solving a problem

TYPES OF ARTICLES



What?


Step-by-step instructions

Who?

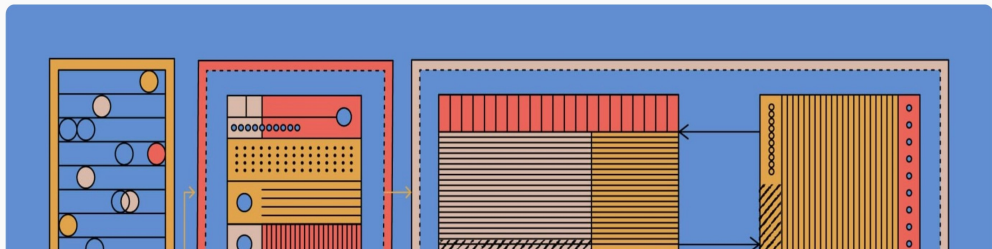
Hands-on software developers trying to learn a new skill or solve very specific problem

TUTORIAL

Kubernetes Management Tools for Bare Metal Deployments

 Hrittik Roy
Writer and Software Engineer

Our handy roundup of the essential tools for bootstrapping and provisioning Kubernetes clusters on bare metal and managing container workloads.



ROUNDUP

What?

List of many different options

Who?

Developers comparing different options for solving a problem

[Blog / Tutorials](#)

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OpenShift vs. Kubernetes: Understanding Container Orchestration Options

9 minute read Updated: February 6, 2023



Hrittik Roy

We're [Earthly](#). We make building software simpler and therefore faster using containerization. Whether you're team Kubernetes or OpenShift, Earthly can simplify your containerized application deployment and management. [Check it out.](#)

The modern software delivery life cycle is filled with microservices packed into containers. Containers can lead to more flexible and scalable applications but often at the cost of additional complexity. Your application probably consists of many microservices that are built and deployed independently. Each microservice may have its own development and deployment cycle, and the dependencies between services can be complex.

This is where container orchestrators can help. Container orchestrators are responsible for the scaling, availability, and life cycle of containers. The two most popular and widely used orchestration tools in the industry are the [Red Hat OpenShift Container Platform](#) and [Kubernetes](#).

In this article, you'll learn the key differences between these two platforms and compare them based on the efforts to manage and deploy, security, deployment, and management.

What?

Objective, side-by-side comparison of 2+ competing tools or services

Who?

Developers comparing different options for solving a problem

COMPARISON



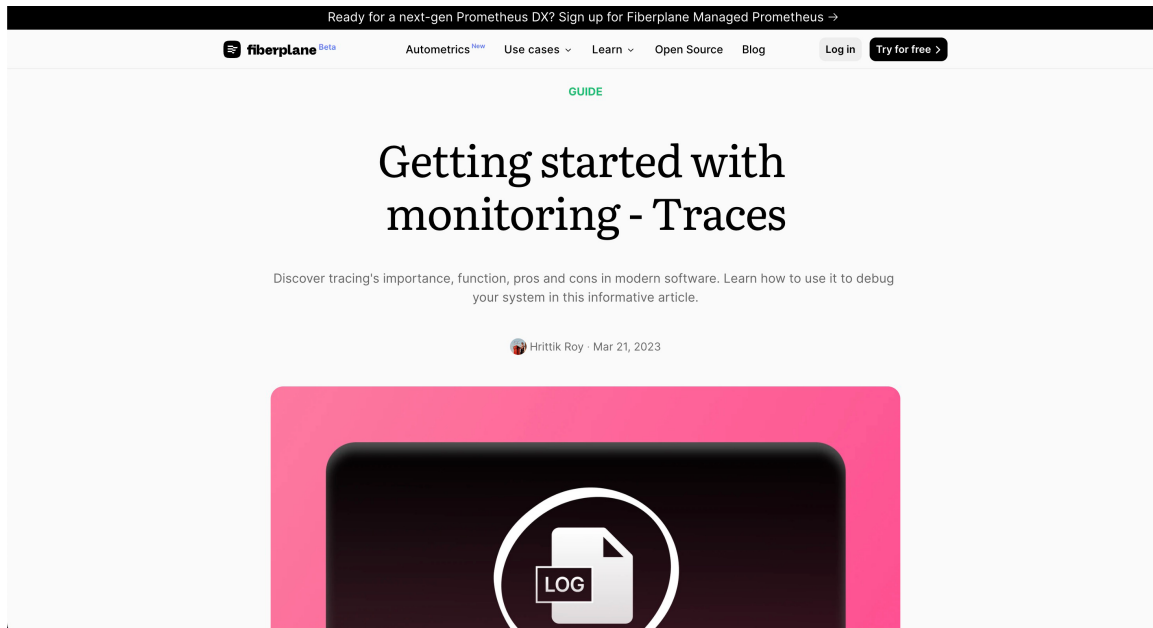
What?

Opinionated case for a specific solution to a problem

Who?

Developers comparing different options for solving a problem

PERSUASION



What?

Detailed explanation of a topic, strategy, or tool

Who?

Technology decision-makers learning about a topic, but not looking for a specific tutorial yet

IN-DEPTH GUIDE

An abstract graphic consisting of several overlapping, irregular white outlines on a black background. The shapes are roughly rectangular or polygonal, with some lines extending outwards, creating a complex, layered geometric pattern.

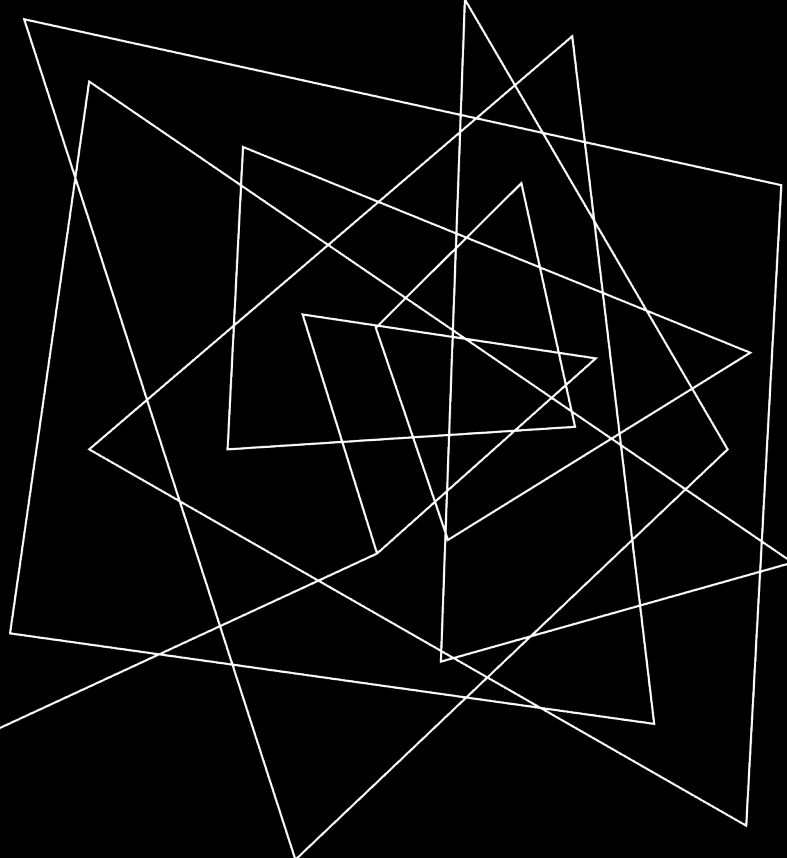
WHY DO TYPES
MATTER?

HOW CAN YOU EFFECTIVELY USE THEM?

EXERCISE

- Pick a recent article you wrote
- What type of article was it?
- Who was the intended audience?
- Why did you write it?

ORGANIZATION



WHAT DOES IT
MEAN TO ORGANIZE
AN ARTICLE?

Writing means organizing your thoughts.
If your mind is scattered, your writing is scattered.
If your mind is focused, your writing will be clear.

- **ROBERT PEATE**

WHY IS THIS IMPORTANT?



HOW CAN YOU
ORGANIZE YOUR
THOUGHTS?

RESEARCH

- Find, read 5-10 similar articles
- Write the code, build the demo app
- Make notes of any important information


OUTLINE

- Introduction
 - What tech we're talking about
 - Why you might use it
 - What you're going to learn
 - How to do X with Y
 - Step 1
 - Why this step?
 - Explain step
 - Do the step
 - Step 2
 - Why this step?
 - Explain step
 - Do the step
 - Conclusion
-

ORGANIZATIONAL PATTERNS

- Chronological
- Importance
- Problem & Solution
- Ranked Order

WHAT IS CHRONOLOGICAL ORDER ?



The illustration shows a woman with white curly hair in a dark blue dress, depicted in three sequential stages of pie-making. In the first stage, she is carrying a large brown paper bag filled with ingredients. In the second stage, she is wearing a white apron and holding a round pie on a white plate. In the third stage, she is holding a slice of pie on a white plate and eating it with a fork.

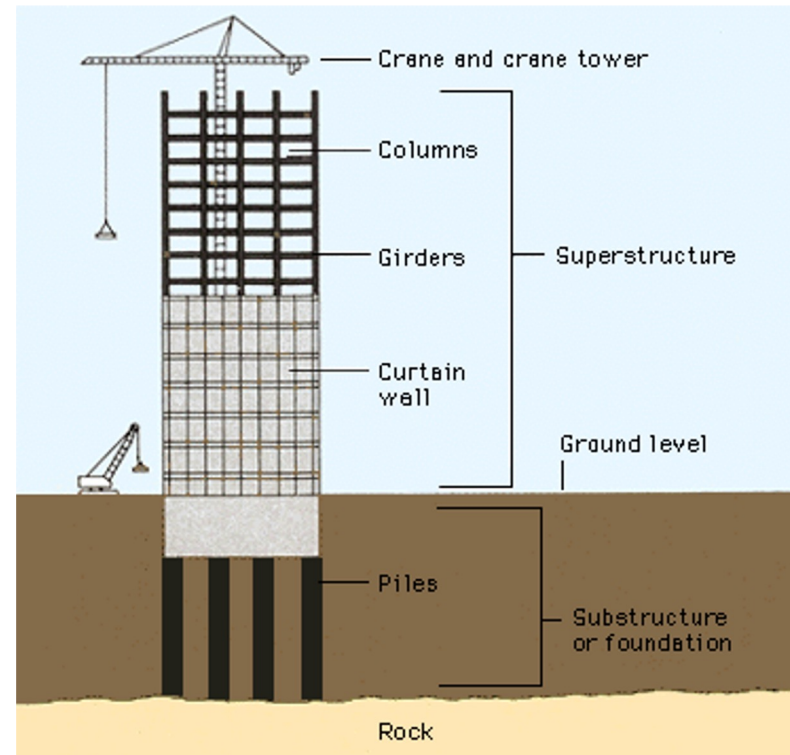
BEGINNING
Jamie bought pie ingredients.

MIDDLE
Jamie baked the pie.

END
Jamie ate the pie.

ThoughtCo.

CHRONOLOGICAL



IMPORTANCE



PROBLEM & SOLUTION

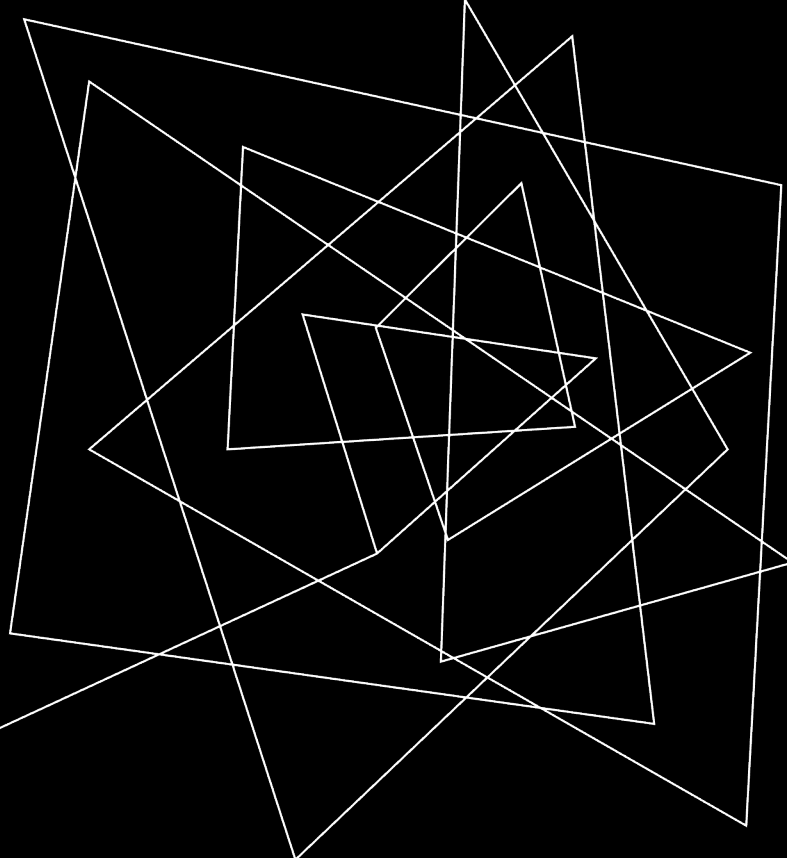


RANKED ORDER

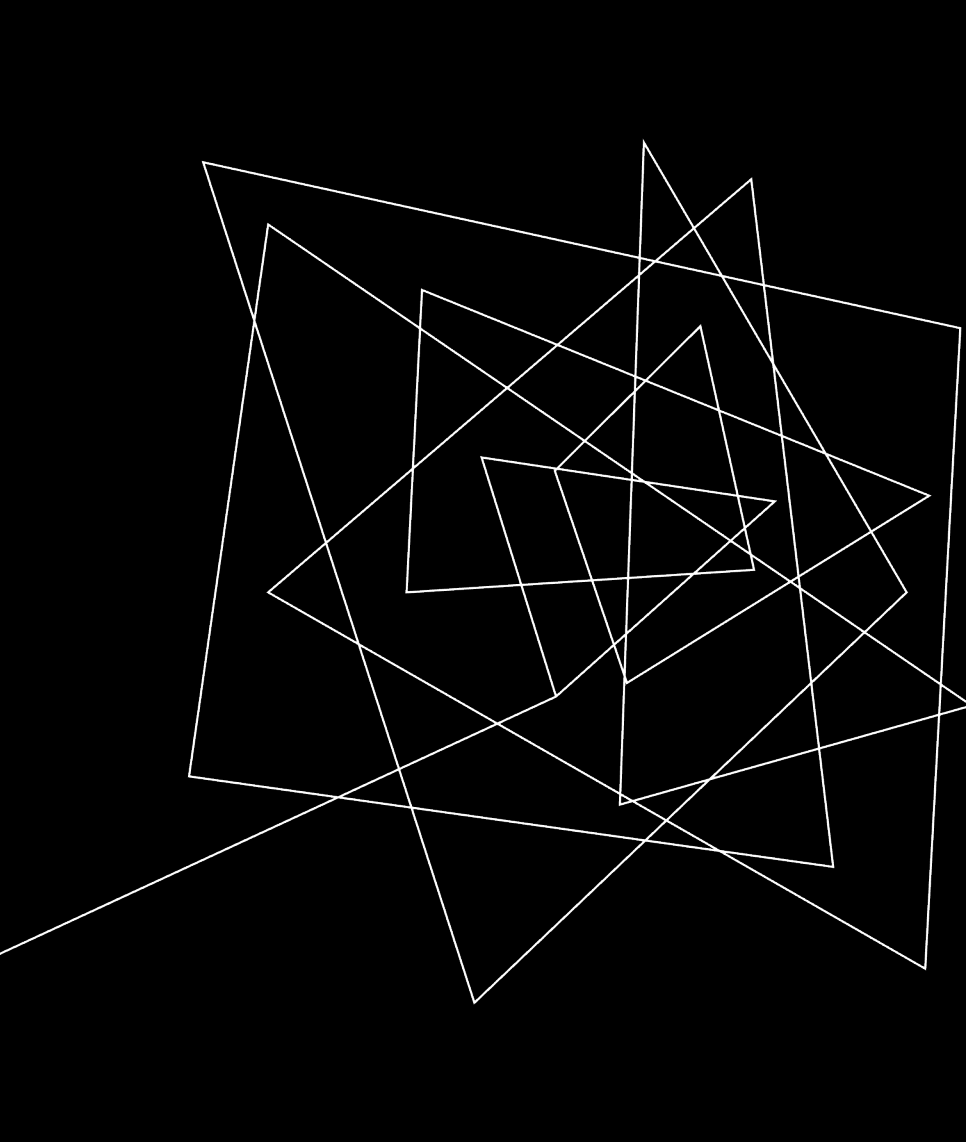
EXERCISE

- Pick a topic you know well
- Creating a rough outline following an organizational method
 - Chronological
 - Importance
 - Problem & Solution
 - Ranked Order

INTRODUCTIONS & CONCLUSIONS

An abstract graphic consisting of several overlapping, irregular white lines on a black background. The lines form a complex, layered structure that resembles a series of nested or intersecting polygons, possibly representing a stylized letter or a geometric composition. The lines are thin and white, creating a high-contrast effect against the black background.

WHAT IS THE PURPOSE
OF INTRODUCTIONS AND
CONCLUSIONS?

An abstract graphic consisting of several overlapping, irregular white lines on a black background. The lines form a complex, layered structure that resembles a stylized, multi-pointed star or a series of nested, slightly offset rectangles and triangles. The overall effect is one of depth and complexity.

WHY ARE
INTRODUCTIONS
AND CONCLUSIONS
IMPORTANT?

An abstract graphic consisting of several overlapping, irregular white outlines on a black background. The shapes are roughly rectangular or polygonal, with some lines extending further outwards, creating a complex, layered geometric pattern.

HOW CAN YOU
WRITE GOOD ONES?

INTRODUCTION EXAMPLES

BAD

Building an API in NestJS

This is my tutorial for building your first NestJS application.

[Tutorial starts here]

OKAY

Building an API in NestJS

In this tutorial, I'll show you how to build a NestJS API with authentication, field validation, and a Postgres database.

[Tutorial starts here]

BETTER

Building an API in NestJS

NestJS is a popular Node framework. It uses TypeScript and decorators to make adding validation, authentication, and data models feel like native parts of your application.

In this tutorial, I'll show you how to build a REST API in NestJS. You'll use Postgres for your data store and see how easy it is to add authentication and field-level validation to your app.

[Tutorial starts here]

BEST

Building an API in NestJS

Authentication and field-level validation are critical components in a REST API. A few years ago, I was working on a team that deployed an update to an endpoint without first ensuring that only admin users could change their roles. The bug went live, but we didn't catch it for a week in which time it was possible that users could have changed their role and even harvested data from other users.

Fortunately, after checking the logs, we found no violations like this, but using a framework like NestJS might have helped us prevent the issue. NestJS is a Node framework that uses TypeScript and decorators to add validation, authentication, and data models that feel like native parts of your code.

In this tutorial, I'll show you how to build a REST API in NestJS. You'll use Postgres for your data store and see how easy it is to add authentication and field-level validation to your app so you never run into a situation like my team did.

[Tutorial starts here]

CONCLUSION EXAMPLES

BAD

[Tutorial ends here]

That's how you build an API with NestJS.

OKAY

[Tutorial ends here]

In this tutorial, you've learned how to build your first API with NestJS. You saw how to add authentication, validation, and implement data models using Postgres and TypeORM.

BETTER

[Tutorial ends here]

Authentication and field-level validation are important components to a REST API. In this tutorial, you've seen how easy NestJS makes it to add these features to your API.

If you're interested in reading more about NestJS, download my comprehensive guide on the topic [here](#). There are demo applications and even more code samples that you can use to build robust, secure APIs in NestJS.

BEST

[Tutorial ends here]

Now that you've seen how easy NestJS makes it to add authentication and field-level validation to your API, there's no excuse to make the same mistake my team did.

If you're interested in reading more about NestJS, download my comprehensive guide on the topic [here](#). There are demo applications and even more code samples that you can use to build robust, secure APIs in NestJS.

EXERCISE

- Pick a recent article you wrote
- Rewrite the introduction and include the following
 - A “Hook”
 - Core Topics
 - Introduction

REFINING YOUR WRITING

An abstract graphic consisting of several overlapping, irregular white lines on a black background. The lines form a complex, layered structure that resembles a series of nested or overlapping polygons, possibly representing a process of refinement or iteration.

WHAT DOES IT
MEAN TO REFINE
YOUR WRITING?

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WHY DO YOU WANT
TO REFINE YOUR
WRITING?

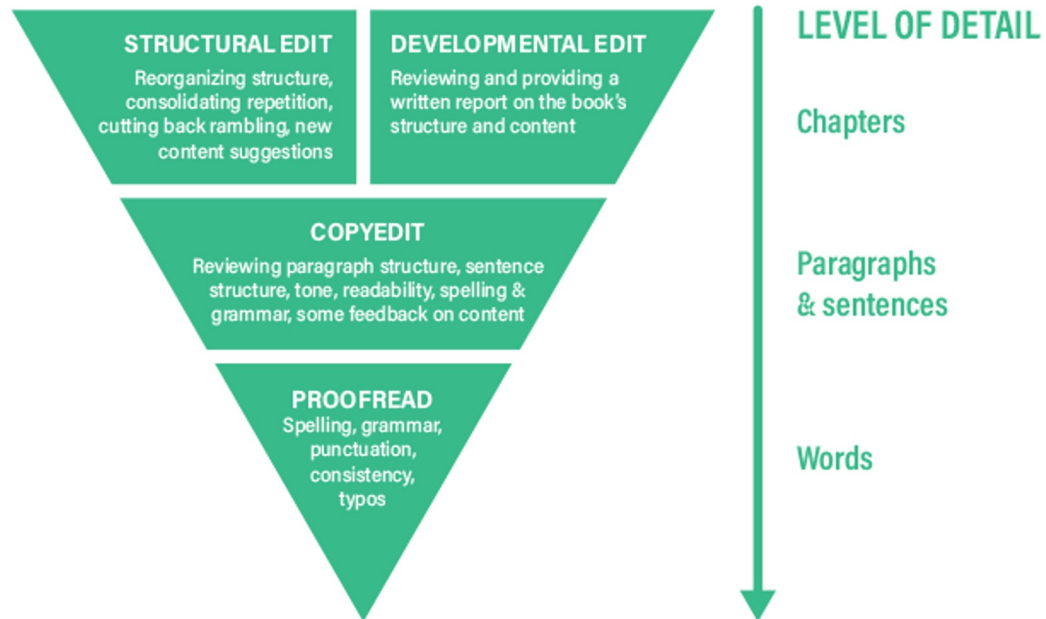
REASONS FOR REFINING

- Consistency
- Quality
- More work
- Better reputation
 - Internally
 - Externally

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HOW DO YOU
REFINE YOUR
WRITING?

TYPES OF EDITING EXPLAINED



Tips for Editing

- Take a break first
- Read it out loud
- Use Grammarly
- Send it to a friend

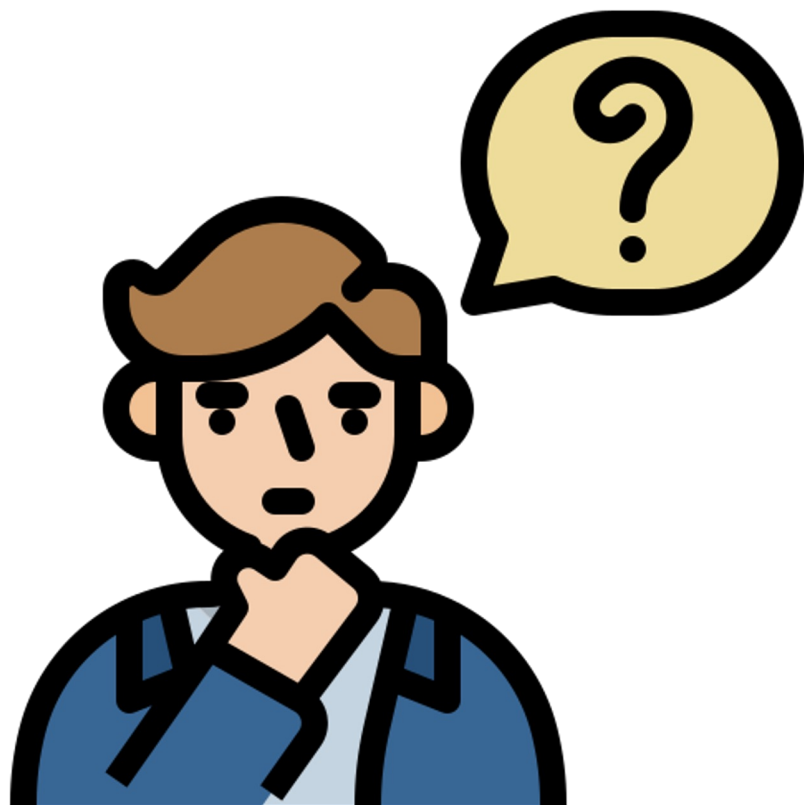
SELF-EDIT



Types of Evidence in Writing

- Links to:
 - Academic Research
 - Surveys
 - Other Articles
- Quotes
- Examples

PROVE EVERY POINT



ANSWER THE “WHY”

Answering “How”:

Next, import the Passport Node module and add it to your controller.

Answering “Why” and “How”:

In order to support multiple authentication providers, OAuth, or JWTs, you can use the Passport package. Import the Passport Node module and add it to your controller.

This test is very hard to read because it's all presented in one big paragraph. I didn't even include any bold or italicized text for emphasis - everything is just crammed together, so there's no way for a reader to understand what it's saying without reading every single word. In fact, it could be presenting a lot of information that the reader doesn't actually need. They might be able to skip to the next portion of the tutorial if they already did this or if they know they don't need it. You shouldn't expect your readers to follow your tutorials blindly, they're probably mixing and mashing your tutorial with their project's requirements, so scanning over your tutorial will help them get a feel for the major steps involved. They'll also be able to leave the tutorial, come back, and figure out where they left off more easily when the text is broken up into defined chunks.

CONSIDER "SCANNABILITY"

Why Readers Scan

Consider your typical reader. They're busy and they probably want to get an idea of what your article is about before they dig in deep.

What Makes Text "Scannable"?

Headers, short paragraphs, and images or videos to break up long spans of text all help.

Testing Scannability

Zoom out. How does your article look from a distance? Zoom in, how does it look on mobile devices? Make sure a reader on any device can quickly get the main points just from the headers and images.

EXERCISE

- Pick a recent article you wrote
- Rewrite one section
 - Self-editing
 - Proving every point
 - Answering the “why”
 - Thinking of scannability

RECAP

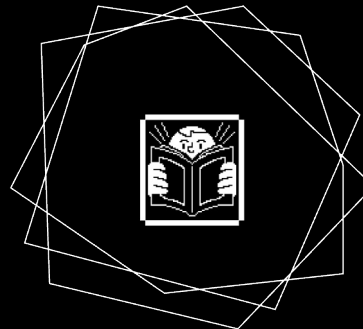
- Why write?
- Understanding types of articles
- Organizing articles
- Introduce and conclude
- Refine your writing

WHAT'S NEXT?



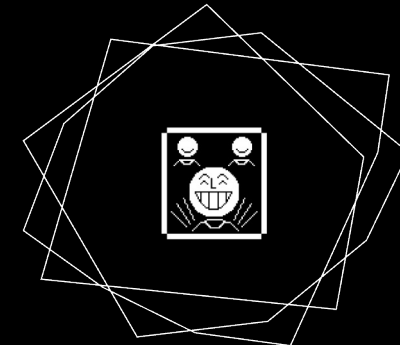
INTERNSHIPS

Always helpful for DevRel, Dev and
Technical Writer Roles



FREELANCING

Write Content and make a living



OPEN SOURCE PROGRAMS

Be a part of programs like GSOD,
GSOC, LFX



THANK YOU

HRITTIK ROY

@HRITTIKHERE

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