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Why I Stopped Using Clean Code (And You Should Too)

4 min read · Aug 21, 2025



The Latency Gambler

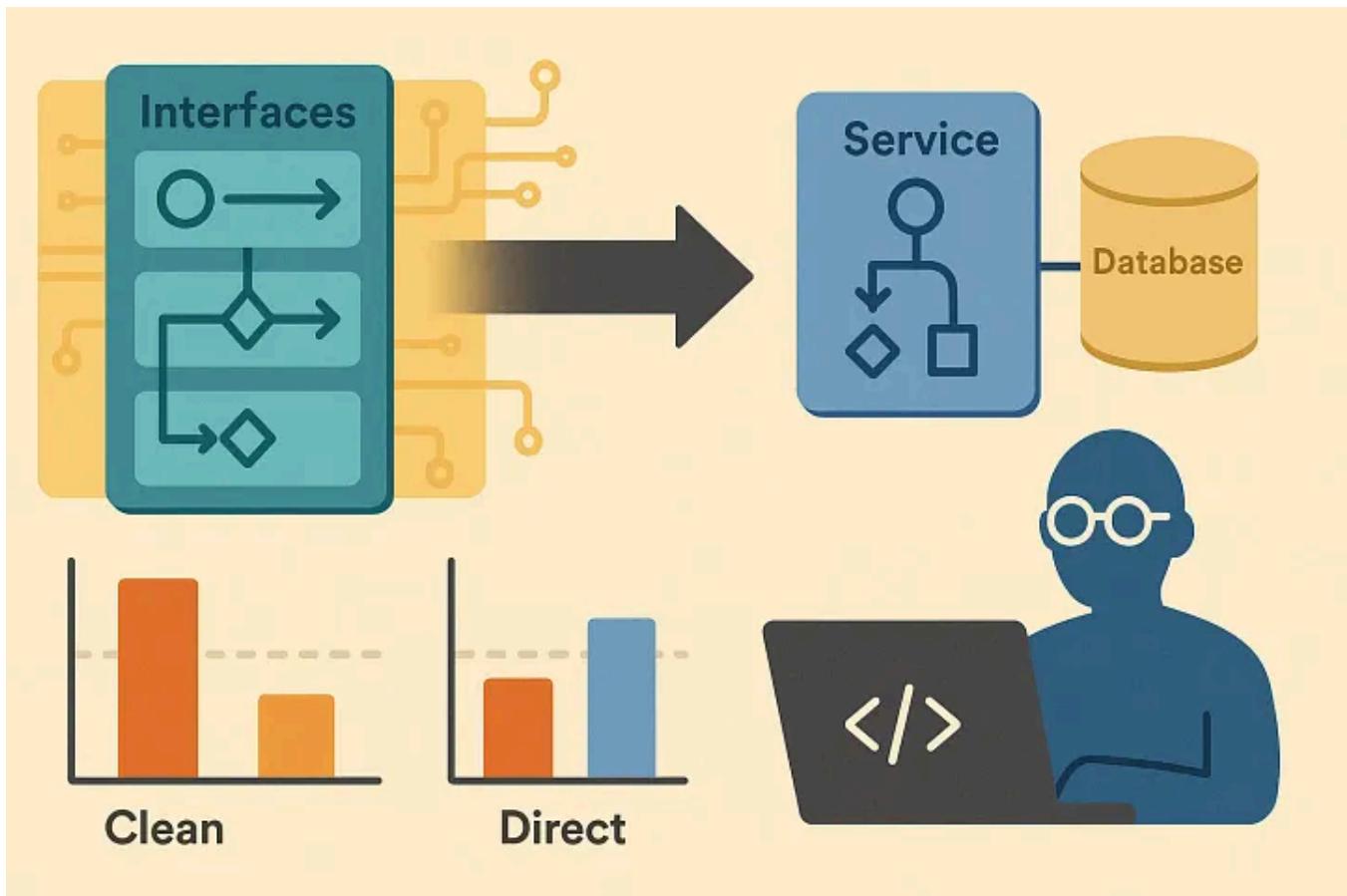
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After four years of building production systems and wrestling with legacy codebases, I've come to a controversial conclusion: the Clean Code movement has done more harm than good to our industry. Don't get me wrong, I used to be a zealot. I'd refactor perfectly working code just to make it "cleaner," create elaborate abstractions for simple problems, and judge colleagues who dared to write a 15-line method.



But real-world software development taught me harsh lessons that Robert Martin's book never prepared me for.

The Over-Abstraction Trap

Clean Code preaches that abstraction is always good. More layers, more interfaces, more indirection. Here's what I used to write:

```
// "Clean" version - looks professional, right?
interface PaymentProcessor {
    process(amount: Money): Promise<PaymentResult>;
}

class StripePaymentProcessor implements PaymentProcessor {
    async process(amount: Money): Promise<PaymentResult> {
        return this.gateway.charge(amount);
    }
}
class PaymentService {
    constructor(private processor: PaymentProcessor) {}

    async processPayment(order: Order): Promise<void> {
        const result = await this.processor.process(order.total);
        if (!result.isSuccess) {
            throw new PaymentFailedException(result.error);
        }
    }
}
```

```
    }  
}
```

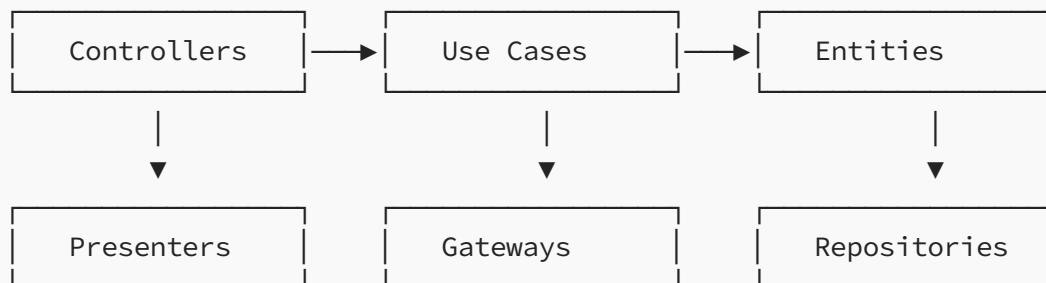
Versus what I write now:

```
// Pragmatic version  
class PaymentService {  
    async processStripePayment(order: Order): Promise<void> {  
        const result = await stripe.charges.create({  
            amount: order.total.cents,  
            currency: 'usd',  
            source: order.paymentToken  
        });  
  
        if (!result.paid) {  
            throw new Error(`Payment failed: ${result.failure_message}`);  
        }  
    }  
}
```

The second version is immediately understandable. A junior developer can debug it in seconds. The first version? Good luck tracing through three layers of abstraction when Stripe's API changes.

Architecture Reality Check

Here's how Clean Code advocates think systems should look:



Here's what actually works in most applications:



Three layers. That's it. Every successful startup I've worked with follows this pattern. The ones that tried Clean Architecture? They're still refactoring while their competitors ship features.

The Performance Penalty

Clean Code's obsession with small functions and excessive abstraction has real costs. I benchmarked this simple operation on Node.js 20:

```
// Clean Code approach
function calculateTotal(items) {
    return items
        .map(item => item.price)
        .filter(price => isValid(price))
        .reduce((sum, price) => sum + price, 0);
}

function isValid(price) {
    return price > 0;
}

// Direct approach
function calculateTotalDirect(items) {
    let total = 0;
    for (let i = 0; i < items.length; i++) {
        if (items[i].price > 0) {
            total += items[i].price;
        }
    }
    return total;
}
```

Benchmark results (1M items):

- Clean approach: 847ms
- Direct approach: 23ms

That's a 37x performance difference. In a checkout flow processing thousands of transactions per minute, this matters.

When “Readable” Code Isn’t

Clean Code claims shorter functions are more readable. But context switching between functions destroys comprehension. Compare these:

```
# "Clean" version
def process_user_registration(user_data):
    validate_user_data(user_data)
    user = create_user_entity(user_data)
    save_user_to_database(user)
    send_welcome_email(user)
    log_registration_event(user)

def validate_user_data(data):
    if not data.get('email'):
        raise ValidationError('Email required')
    # ... more validation
def create_user_entity(data):
    return User(
        email=data['email'],
        password=hash_password(data['password']))
# ... 3 more functions
```

Versus:

```
# Pragmatic version
def process_user_registration(user_data):
    # Validate input
    if not user_data.get('email'):
        raise ValidationError('Email required')
    if not user_data.get('password'):
        raise ValidationError('Password required')

    # Create user
    user = User(
        email=user_data['email'],
        password=bcrypt.hashpw(user_data['password'].encode(), bcrypt.gensalt())
    )

    # Save to database
    db.session.add(user)
    db.session.commit()
```

```
# Send welcome email
email_service.send_template('welcome', user.email, {'name': user.name})

# Log the event
logger.info(f'New user registered: {user.email}')
```

The second version tells a complete story. I can understand the entire flow without jumping between functions. When debugging a registration failure at 2 AM, which would you prefer?

The Pragmatic Alternative

After years of fighting over-engineered codebases, here's what I've learned works:

1. Write boring code — If a junior developer can't understand it in 30 seconds, it's too clever
2. Optimize for debugging — Code is read during crises, not casual browsing
3. Embrace redundancy — DRY is less important than locality of behavior
4. Measure before abstracting — Most abstractions solve problems you don't have

Real-World Evidence

The most successful codebases I've maintained follow these principles:

GitHub (Ruby on Rails):	Monolithic, straightforward
Stack Overflow (ASP.NET):	Pragmatic, performance-focused
Shopify (Ruby):	Modular but not over-abstracted

Meanwhile, every project that strictly followed Clean Code principles became an unmaintainable mess of interfaces and abstractions.

Conclusion

Clean Code isn't evil, but treating it as gospel is dangerous. It optimizes for the wrong things: making code look professional rather than making it work reliably. After four years of maintaining production systems, I've learned that readable, performant, debuggable code matters more than architecturally pure code.

Your future self, debugging a critical issue at 3 AM, will thank you for writing obvious code instead of clean code.

The best code isn't clean , it's pragmatic.

Clean Code

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Responses (69)



Bgerby

What are your thoughts?



Wchasroth

Aug 21

...

OK, them's fightin' words! :-)

Seriously, though, the whole argument is a "strawman" logical fallacy. Any methodology taken to ridiculous extremes will be bad. So what?

But when you say "Clean Code preaches that abstraction is always good", that's... [more](#)

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 Luiz Armesto
Aug 24

...

I'd refactor perfectly working code just to make it "cleaner," create elaborate abstractions for simple problems, and judge colleagues who dared to write a 15-line method.

At least you made it clear from the beginning of the post that you had no idea what you were doing.

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 Bruce Rosner
Aug 24

...

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