

Quality as an Emergent Property in Software Development

Introduction

In software development – as in many creative endeavors – **quality is not a static attribute achieved instantaneously, but an emergent property that evolves over time.** High-quality, simple designs often **emerge** from iterative improvement, experimentation, and continuous refactoring rather than from a one-time effort. This concept of “quality as evolution” means that a software system typically starts messy or incomplete, and through many adjustments and refinements it gradually becomes clean, robust, and intuitive. Crucially, this iterative journey towards quality parallels processes in other domains (design, engineering, etc.), though software’s unique nature makes the evolution especially pronounced. In this white paper, we explore how quality and simplicity relate, why good design emerges through evolution, and how practices like continuous refactoring and user feedback drive software from rough prototype to polished product.

Quality vs. Simplicity: Two Sides of the Same Coin?

At first glance, *quality* and *simplicity* sound like distinct concepts – one might ask, **is “simple” a subset of “quality,” or is quality a subset of simplicity?** In reality, they are closely intertwined. A well-built product tends to feel simple to use, and a simple, elegant design is often indicative of high quality. Key points to understand their relationship include:

- **Simplicity as an Aspect of Quality:** Quality software often exhibits simplicity in its architecture and usage. A clear, uncomplicated design (both in code structure and user interface) can reduce errors and make maintenance or usage easier. In this sense, simplicity contributes to quality.
- **Not Just Minimalism:** However, simplicity does **not** mean simplistic or lacking in functionality. It is possible to have a very minimal interface that is low quality because it fails to meet user needs, and conversely a feature-rich system can be *perceived* as simple if it’s well-designed. In other words, *“simple” is about ease-of-use and clarity, not merely a low feature count.* Sometimes an interface with many options is actually more efficient and *simpler for users to accomplish tasks* than an over-streamlined interface that hides important functions. As Einstein famously advised, make everything **“as simple as possible, but not simpler.”** Achieving simplicity without sacrificing capability is a hallmark of quality design.
- **Quality Encompasses More:** Quality includes other dimensions (reliability, performance, security, etc.) beyond just the user-facing simplicity. A system might appear simple to an end-user but still be low-quality internally (e.g. if the code is fragile). Ultimately, we can think of high quality design as achieving the *right* simplicity: no unnecessary complexity, but also no oversimplification that hampers utility.

In summary, **simplicity is a critical characteristic of quality**, but not the only one. Quality software is often simple *and* robust – providing intuitive use and meeting requirements reliably. In practice, striving for quality will naturally tend to produce simpler designs over time, as unnecessary complexities are refactored away.

Evolutionary Stages of Software (Wardley Maps Context)

Quality in software is best understood as something that **emerges through evolutionary stages**, rather than a binary quality that exists from the start. Simon Wardley's strategic mapping framework provides a useful lens: **all technology products evolve through four stages – Genesis, Custom-Built, Product, and Commodity** ¹. In each stage, the nature of the system and our approach to it changes:

- **Genesis:** A novel invention or concept, typically experimental or one-off. Solutions in this phase are highly uncertain and constantly changing ². There are no established best practices yet, and quality is low or undefined – **exploration and creativity** dominate.
- **Custom-Built:** As understanding increases, the solution is built in a bespoke way for a specific use. It's becoming more defined and repeatable, but still unique and not widely available ². Here the focus shifts to making it work reliably for the known use-case – quality improves but is *localized* (tailored to particular needs).
- **Product:** The solution becomes stable, well-defined, and widely usable – a standard product or service ². Quality at this stage means **robust engineering** and polish. The design is more mature, having incorporated lessons from earlier phases. Efficiency and optimization start to matter.
- **Commodity/Utility:** The solution is now ubiquitous, standardized, and highly reliable ². Think of mature technologies (operating systems, established frameworks) – quality is very high, and the item is so standard it's often taken for granted. Innovation here is minimal; the emphasis is on **cost efficiency and scale**.

This evolution is **not just about the product's maturity, but also about process and roles**. Wardley notes that different stages require different approaches and even different talent: *pioneering* innovation in the Genesis phase is a different kind of work than refining a Product or industrializing a Commodity ³. He puts this in terms of **"Pioneers, Settlers, and Town Planners"** – where pioneers create the novel concept, settlers turn a custom solution into a product, and town planners optimize it into a commodity service. Each phase of evolution builds on the prior, progressively increasing quality and stability.

Importantly, **quality emerges gradually through these stages**, it cannot be fully present at the start. Early on (Genesis/Custom-Built), chasing a *polished, perfect design* is often futile because so much is unknown and likely to change. Instead, teams **experiment and learn**, accepting lower initial quality. As the concept proves out and moves toward Product stage, efforts concentrate on architecture, refactoring, and testing to raise quality. By the time a software reaches the Product/Commodity stage, it should embody a high-quality, simple design – *but that design is the result of many iterations and improvements along the way*.

The Prototype Paradox: When Software *Looks Done Before It Is*

One peculiar property of software (compared to many physical products) is that **a prototype can masquerade as a finished product**. Because software doesn't have physical form and can be easily copied and distributed, even a hastily built application can *appear* polished to end users – it has a user interface, it "works" for basic cases, and can be deployed widely. In other words, *software can be in one evolutionary stage internally, but look like it's in a later stage externally*. This creates a dangerous illusion of quality.

Consider a scenario familiar to many teams: under a tight deadline, developers hurriedly cobble together a feature or application with minimal regard for architecture or maintainability. The result is

essentially a **prototype or custom-built solution** intended to just meet immediate needs. However, once this software is shipped, it **“feels” like a real product** – users see a working system, and stakeholders might assume it’s production-quality. The software might even behave adequately under light usage, giving an impression of stability. Because it’s software, there’s no obvious physical telltale that it’s held together with duct tape (unlike, say, a physical prototype with visible rough edges).

The danger is that this **prototype-in-production** can become the foundation of the final product. The temporary, expedient code – often riddled with shortcuts and technical debt – remains in place because “it works, so let’s keep using it.” The **foundation, however, is brittle**. Over time, this leads to serious maintenance headaches: the quick-and-dirty architecture makes adding new features or fixing bugs increasingly difficult. In technical terms, the project has accrued significant **technical debt**. Ward Cunningham’s debt metaphor describes this well: taking shortcuts yields immediate progress at the cost of future effort. The “interest” on this debt is paid in the form of extra work later – for example, each new feature is harder to implement due to the messy codebase ⁴. If unmanaged, such debt “interest” compounds and slows down all development ⁵, ultimately undermining the software’s quality and agility.

It’s worth noting that this phenomenon is **common** – many software projects suffer from an initial version that was essentially a prototype but ended up becoming the core of the product in production. This is often at the root of scalability issues, security vulnerabilities, or high defect rates down the road. **Proper engineering and refactoring must intervene** to restructure and harden that prototype into a true product/commodity-grade solution.

The lesson here is twofold: **(1)** Don’t be fooled by a shiny demo or a Version 1 that “seems to work” – internal quality matters greatly for long-term success. **(2)** Embrace the idea that a system might need to be **rebuilt or heavily refactored** after the initial prototype, to evolve its quality. In the Wardley mapping sense, you have to intentionally move a software from custom-built prototype to a true product through concerted effort; if you skip that evolution, you end up with a fragile pseudo-product that only *looked* evolved. High quality is achieved by paying off that technical debt and **engineering the product properly as it matures**, not by luck or by initial accident.

Iterative Refinement: How Quality *Emerges* through Evolution

If quality in design “emerges” over time, **what is the mechanism that produces it?** In a word: **iteration**. High quality code and architecture are usually the result of *many small improvements*, continuously made, rather than a single upfront design. Modern agile software development embraces this through practices like **refactoring, continuous integration, and feedback loops**. A common agile mantra is “*Test, Code, Refactor, Repeat,*” emphasizing that refining the design is an ongoing activity throughout the project ⁶ ⁷.

Here’s how the iterative process typically works in a healthy software team:

1. **Build the simplest thing that works:** At first, focus on functionality. Write the code to solve the immediate problem or user story. Do *just enough* design to get started. (Kent Beck phrased it as “*make it work, then make it right*” – ensure you solve the problem before worrying about ideal design).
2. **Verify it (tests/feedback):** Ensure the initial solution actually meets the need (passing tests, or via user testing). This gives confidence that the basic concept is sound.
3. **Refactor and improve the implementation:** With a working baseline, **clean up the code and design** – improve naming, simplify logic, break apart large functions or modules, eliminate

duplication, and enforce proper architecture boundaries. This is where the **“elegant code”** starts to emerge from the initial rough draft. Agile practitioners describe this as letting the design **react and adapt to actual needs**: *“the current design emerges in response to the functionality being supported... The design reacts and adapts to the needs of the system”* ⁸ . You continuously reshape the code to better fit what you have learned about the problem.

4. **Repeat with the next feature**: Each new addition or change goes through the same cycle – add functionality, then refactor. Over time, the codebase accumulates many improvements. The architecture **grows organically** stronger with each iteration, provided the team consistently takes time to refine.

This approach aligns with one of the Agile Manifesto’s core principles: **“The best architectures, requirements, and designs emerge from self-organizing teams.”** ⁹ In practice, emergent design means the team is always incorporating the latest knowledge. Instead of guessing the perfect design upfront, the design **evolves** as the product evolves. The result is a system whose structure has been proven and honed by real use-cases and continuous tuning.

It’s important to highlight that **continuous refactoring is key**. Refactoring is the act of improving internal code structure without changing external behavior. As Martin Fowler notes, internal code quality (lack of “cruft”) is what keeps development productivity high ⁵ . By refactoring regularly, teams prevent the software from devolving into a big ball of mud. Clean, modular code *emerges* as teams repeatedly rearrange code to be simpler and more coherent after adding each small increment of functionality. Over time, what started as a clunky or complicated solution can transform into a clean, well-structured design through many such revisions.

This iterative, evolutionary approach counters the misconception that agile teams “do no design” or that architecture isn’t considered. On the contrary, **design is constantly happening** – it’s just happening incrementally throughout the project rather than all upfront. As one expert succinctly put it: *“Big design up front is dumb. Doing no design up front is even dumber.”* In the rush to embrace agility, some teams abandoned architecture thinking, but the wiser path is to do just enough design to start and then improve it as you go ¹⁰ . Every iteration adds to the design. Over multiple iterations, *a well-architected solution emerges from the accumulated efforts*.

To make this concrete, consider the practice of **Test-Driven Development (TDD)**. In TDD, developers write a test for a small piece of functionality, see it fail, then implement code to make it pass, and finally **refactor the code to clean it up** ¹¹ . That last step is where design gets continuously refined. Only when the code is clean and all tests pass do you move on. This embodies the idea that *“the goal is clean code that works... First solve the ‘make it work’ part, then solve the ‘clean code’ part”* ¹² . The elegant design is a byproduct of repeatedly cleaning up after each small addition.

Knowing When to Stop: Diminishing Returns and “Good Enough” Design

One might worry that if we keep refactoring and improving, could we not polish forever? It’s true that given infinite time, one could theoretically keep tweaking a design endlessly. But in reality, two things naturally constrain this: **diminishing returns** and reaching an optimal design where further change has no benefit.

Experienced teams learn to continuously ask: *“What is the place of highest leverage to focus on right now?”* This means you improve what’s important for current goals (e.g. clarity in a module you’ll soon extend, performance in a critical component, etc.), rather than polishing parts that don’t pay back value. Often,

after several rounds of refactoring a certain piece of code, you hit the point of **diminishing returns** – improvements become minor and not worth the extra time compared to other needs. One developer advises, *“make it as simple as you possibly can by refactoring and stop only when you cannot think of any improvement anymore.”* At some point, the effort spent polishing yields negligible benefit, and that’s when to stop and move on ¹³. In other words, **stop refactoring when the design is “clean enough”** that no obvious flaw stands out and further changes would be cosmetic.

Another way to recognize a stopping point is when you reach a design that is **elegant and feels right** – the code or product has a certain integrity where adding or removing anything actually makes it worse. In classic design terms, *“perfection is achieved not when there is nothing more to add, but when there is nothing left to take away.”* When your architecture has solidified into a form that meets all current requirements, is easy to understand, and has no unnecessary complexity, you’ve likely found the sweet spot. At that stage, changes slow down naturally because any attempt to improve often doesn’t truly improve it. As the speaker noted, *“there’s a moment that you can’t change [it] because you cannot come up with something better... that’s when you know you have a good design – you stop because you can’t improve it further.”* Achieving this is a sign that the component has perhaps moved from the chaotic genesis phase into a well-engineered product/commodity state.

Importantly, “stopping” on one aspect doesn’t mean the entire system stops evolving. Software projects are multifaceted; while one module might be essentially complete and need no further work (aside from maybe minor tweaks over time), another part of the system might still be in flux and evolving. Good teams continuously allocate their effort to where it yields the most value, which aligns with lean principles. This also ties to budgeting and time constraints – sometimes having **strong constraints (time, budget)** can paradoxically help by forcing the team to focus only on the most impactful refactoring or improvements at a given time (ensuring they don’t waste effort on gold-plating things that don’t matter). The end result is a series of iterative improvements each hitting the point of diminishing returns, leaving a trail of well-designed pieces in the codebase.

In summary, **quality emerges iteratively, but it is guided by pragmatism** – you evolve the design until it’s good enough for its current purpose and no obvious benefit comes from further change. At that point, the code/design will exhibit clarity and stability, and you turn attention elsewhere. If new requirements or insights later show it’s *not* good enough, you can always iterate again. This approach ensures continuous improvement without falling into the trap of endless perfectionism.

Characteristics of Good Design (When It Emerges)

After sufficient evolution, what does **“good design”** in software look and feel like? Several notable characteristics tend to manifest when a design has reached a high-quality state:

- **Intuitive & Invisible:** A hallmark of good design is that it **feels natural to the user**, to the point that the design itself becomes “invisible.” In other words, users can use the software without frustration or confusion – everything behaves as expected. As one source puts it, *“Good design is invisible – when done right, users don’t notice it because everything feels natural, intuitive, and easy to use.”* ¹⁴ The interface or API “just works” and doesn’t draw attention to itself through quirks or clunky procedures. Users can focus on their goals, not on figuring out the tool.
- **Easy to Learn:** A quality design minimizes the learning curve. Users (or developers, in the case of a well-designed code module or library) can pick it up quickly because it **aligns with common sense or known conventions**. An intuitive design often means that someone who has used similar systems can transfer their knowledge easily. Things are where you expect them to be; the mental model is clear.

- **Consistent and Principle-Based:** Good designs usually follow consistent rules or principles internally, which might not be consciously noticed by users but result in a cohesive experience. For a UI, this might mean consistent placement of buttons or standard keyboard shortcuts; for code, it means a consistent architecture or coding style. Consistency reduces surprise and builds user trust that the system will behave reasonably.
- **Minimal Complexity (but Fully Featured):** A well-evolved design has **no extraneous elements** – every feature, UI element, or code module serves a purpose or has a clear justification. This doesn't imply lack of features; rather it means achieving the needed functionality with as little complexity as possible. The design has been refined to eliminate unnecessary steps and streamline operations, *yet it still does everything users need*. This ties back to simplicity: the solution feels straightforward because the complexity has been *encapsulated* or pruned through refactoring.
- **Robustness and Reliability:** High quality design isn't just about look and feel – it also manifests in reliability and performance. A well-designed system will handle errors gracefully, work under load, and be secure. These attributes result from careful evolutionary improvements (e.g., adding error handling, improving algorithms, fixing bugs as they're discovered, etc.). When design is done right, the product *seems* to just work flawlessly, which from the user perspective is “invisible” design – they don't see the error messages or crashes that would plague a lower-quality product.
- **Difficult to Improve Further:** As discussed, one interesting property of a mature good design is that any change you consider doesn't clearly make it better. This is an outcome of having iteratively removed all the obvious pain points. In user experience terms, if you try a different layout or workflow and test it, users prefer the original (because it was already optimized through feedback). In code terms, another developer reviewing it finds it hard to suggest a cleaner way without making it more verbose or breaking something. This doesn't mean the design is absolutely perfect (there's always some trade-off), but it means it's *locally optimal* given current constraints.
- **Backward Contrast:** Users often realize how good a design is only when they go back to an older version or a competitor – the old experience suddenly feels **“really bad” or outdated in comparison**. This is a strong sign the new design got it right. For example, if you roll out a new interface that is truly better designed, users might not shower it with praise (because it feels natural), but if you temporarily revert to the old interface, they immediately feel how clunky it was. Good design, once experienced, tends to *spoil* the user – it raises their expectations and they wouldn't want to go back.

To illustrate, imagine a software update that improves a clumsy workflow. In version A (old design), a user had to navigate multiple menus to do a task; in version B (new design), it's one click on a clearly labeled button. Users might not laud version B as revolutionary (“it just makes sense now”), but if forced to revert to A, they'll likely groan at how convoluted it was. **This contrast effect** – where the absence of the new design makes users uncomfortable – is a litmus test for good design. (If instead users preferred the old way, that indicates the “improvement” wasn't truly an improvement.)

Ultimately, good design aims to be **transparent to the user's goals**: it neither adds cognitive burden nor gets in the way. As design legend Don Norman would say, it provides *affordances* that match the user's needs and mental models. In software, when a design has emerged successfully, new users can adopt it easily, and existing users become highly efficient and perhaps even unaware of how the design is subtly supporting them. That is quality at its peak.

The Role of User Feedback and Adaptation

Quality and good design do not emerge in a vacuum – **user feedback is the compass that guides evolutionary improvement.** Throughout the iterative process, tight feedback loops are essential to inform what “better” means. This applies to both user-facing design and internal code quality:

- **User Feedback on Features/UX:** As early as the genesis/custom-built phase, getting the software in front of actual users (or product stakeholders) is crucial. Feedback will reveal what features are truly needed, which workflows are awkward, and what problems still exist. This guides developers and designers on where to focus next. The speaker emphasized having a “*very direct relationship between users and developers... until you get it right.*” Rapid prototyping and continuous delivery help close this loop. By the time the software is a mature product, it has been molded by many rounds of user input, which is why it ends up intuitive. If you skip or cut short this feedback cycle, you risk developing features or designs that *seem good in theory but fail in practice*. As a brutal but valuable metric: **if your users are not actually using a feature or product, then the design wasn’t right** – it didn’t solve a real problem in a usable way.
- **Feedback on Code (Tests & Team):** For internal quality, automated tests are a form of feedback – they tell you if the system still works after changes, enabling safe refactoring. Similarly, code reviews and pair programming give feedback on design choices (colleagues might point out a poor pattern or suggest a simpler approach). Without internal feedback mechanisms, a team might not realize a certain module has become a tangled mess until far too late. Incorporating practices like continuous integration (which gives immediate feedback if something breaks) and regular retrospectives (where the team reflects on what part of the codebase is causing pain) helps target areas that need improvement.
- **Evolving Requirements:** Users’ needs can change, or initial assumptions can be proven wrong. A quality-focused team remains adaptable. Rather than rigidly sticking to the first design, they treat new requirements as information that the design must evolve further. This is another reason we say design is emergent: the “right” design is partly discovered through the process of meeting real requirements over time.

A key point here is that **tight feedback loops significantly accelerate the emergence of quality.** If feedback is slow or absent, the evolution will be slow or misdirected. That’s why methodologies like Agile and DevOps stress frequent releases, customer demos, and so on. The sooner you know that users are confused by a feature (or that a piece of code is too hard to extend), the sooner you can address it and iterate towards a better solution.

One practical strategy is to keep the product in a usable state at all times (the idea of “*release early, release often*”). By delivering incremental improvements to users regularly (even in an internal beta), you can gauge when you hit diminishing returns on a feature or design. Often, quality emerges not just from the brilliance of the developers, but from **listening to user reactions and usage data.** For example, perhaps you thought a particular configuration option was needed, but users never touch it – that could be removed to simplify the UI (improving quality by removing unused complexity). Or perhaps logs show users inventing workarounds for a missing feature – indicating where the design isn’t meeting their mental model. Embracing these signals ensures the product’s evolution is aligned with real-world usage.

In essence, **the evolution of quality is a collaborative dance between the creators and the consumers of the software.** Developers must be open to change and improvement; users (or stakeholders) must be involved enough to provide insight. When this collaboration is tight, the product can rapidly converge on a highly effective, high-quality design that might feel obvious in retrospect.

(Many well-designed products seem “obvious” once you experience them – but that’s often because the designers went through many iterations informed by user feedback to make it so intuitive.)

Conclusion: Design is an Ongoing Evolution

Quality design is not a one-off deliverable – it’s the result of continuous evolution. In software development, a simple and high-quality architecture *emerges* from many trials, errors, and refinements. We start with something crude, get it working, and then relentlessly improve it. Along the way, we leverage frameworks like Wardley’s evolutionary stages to understand where we are (e.g. experimenting in genesis vs. polishing a mature product), and we remain vigilant about the pitfalls (like treating a prototype as a final product without further refinement).

By adopting an iterative mindset, developers and teams accept that **the first implementation will not be the best** – and that’s okay. What’s important is having the processes (refactoring, testing, feedback, etc.) and the culture (willingness to change, learn, and improve) that drive the software towards quality step by step. Over time, **messy code can become clean**, complex workflows can become simple, and a so-so product can become a great one – *if* we continuously invest in evolving it.

To put it succinctly, **design quality is an emergent property** of doing many small things right, learning from mistakes, and never settling for “it works” when it could work better. The evolution may involve multiple phases of rework and refinement, but each iteration adds to the robustness and simplicity of the result. Eventually, a point is reached where the design feels *just right* – intuitive, reliable, and fitting its purpose with elegant simplicity. That is the moment all the evolutionary effort pays off.

For software organizations, the takeaway is clear: treat quality as a journey, not a destination reached on day one. Encourage exploratory development early, but be ready to refactor and improve relentlessly. Pay down technical debt as you go so it doesn’t impede future evolution. Seek user feedback early and often to guide what “better” means. And recognize the signs of good design emerging – consistency, intuitiveness, and the diminishing need for further change.

By viewing **quality as an evolution** and design as an **emerging property**, we align our expectations with reality: great software isn’t born great, it *becomes* great through dedication to continuous improvement. This mindset not only leads to higher quality products, but it also creates a culture of craftsmanship and adaptability. In a fast-moving world of software, those who iterate and evolve their designs will ultimately deliver simplicity and quality that more rigid approaches simply can’t match.

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