Tangible Software Quality

Sigge and Gojko



/'tan(d)3ib(ə)l/

adjective

perceptible by touch.

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Put the paragraph text here...



Which one would you ship to production?

10.000 bugs in 10.000 lines of code?

1 bug in 10.000 lines of code?

0 bugs in 10.000 lines of code?

https://instapoll.me/11633





Tangible quality rule #0:

PRESENCE of Quality can't be measured by Absence of something (bugs?)



We need to build a system that is **FAST** and **RELIABLE**...

We need to build a system that is FAST and RELIABLE, so it's OK to be EVENTUALLY CONSISTENT

Tangible quality rule #1:

Don't think about QUALITY think about QUALITIES

Accurate Performant Trustworthy Fun Beautiful



"We need to build a system that is FAST and RELIABLE, so it's OK to be EVENTUALLY CONSISTENT"

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"So what is EVENTUALLY ENOUGH???"

Tangible quality rule #2:

With multiple "qualities", we need tradeoffs between them - and that's a **PRODUCT DECISION**.

QUPER = Quality Performance





IKEA Value of planner	Revenue Seamless range updates – Support the running business Brand value Sustainability Customer trust Legal compliance Conversion rate Development time saving – Cost concious	
End users Customer goals achievement Co-workers goals achievement	Conversion moments - Give me (Save, Favourite, Add to bag) NPS surveys Saved design open percentage (value of design) Planner efficiency (how quickly is a design finished?) Seamless user journey Accessibility	SUCCESSFUL USEFUL
Can be used by customers / co-workers	Engaged vs bounced Customer interaction moments - What is me, Make it me, Help me, Show me Session times Page level insights Undo/redo User errors / Unwanted behaviour	USABLE PERFORMANT SECURE DEPLOYABLE FUNCTIONALLY OK
Fast enough? Secure enough?	Google web vitals measurements Perceived performance Specific loading times, Page weight, Drag n drop Etc. Zero open security issues	tant for us?
Failures and bugs? Reliability and Availability	DORA: Deployment frequency, MTTR (Incidents), Change failure rate, Change lead time Monitored error rates Defects reported vs deployed features Regressions 10 most basic requirements	Whatisimport



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Tangible quality rule #3:

Shape the quality priorities **NARRATIVE** with a **MODEL**!

FAST	SAFE	ECO

If you're not KEEPING SCORE, You're not COMPETING, You're just PRACTICING.

Four Disciplines of Execution



Tangible quality rule #4:

Make it tangible by VISUALISING. Then ACT on the signals.

Automation or observability – which risks do we handle where?



* (Size of area = How many /should/ there be preferably)

MAKING QUALITY TANGIBLE

- **0. MEASURE PRESENCE**, not absence
- 1. Describe multiple QUALITIES
- 2. Tradeoffs are a **PRODUCT DECISION**
- 3. Shape priorities with a **MODEL**
- 4. VISUALISE and ACT

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