

Technical Debt

Software Evolution – L3T2

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Technical Debt

Dev is in a hurry

⇒ writes poor code

⇒ next task takes longer

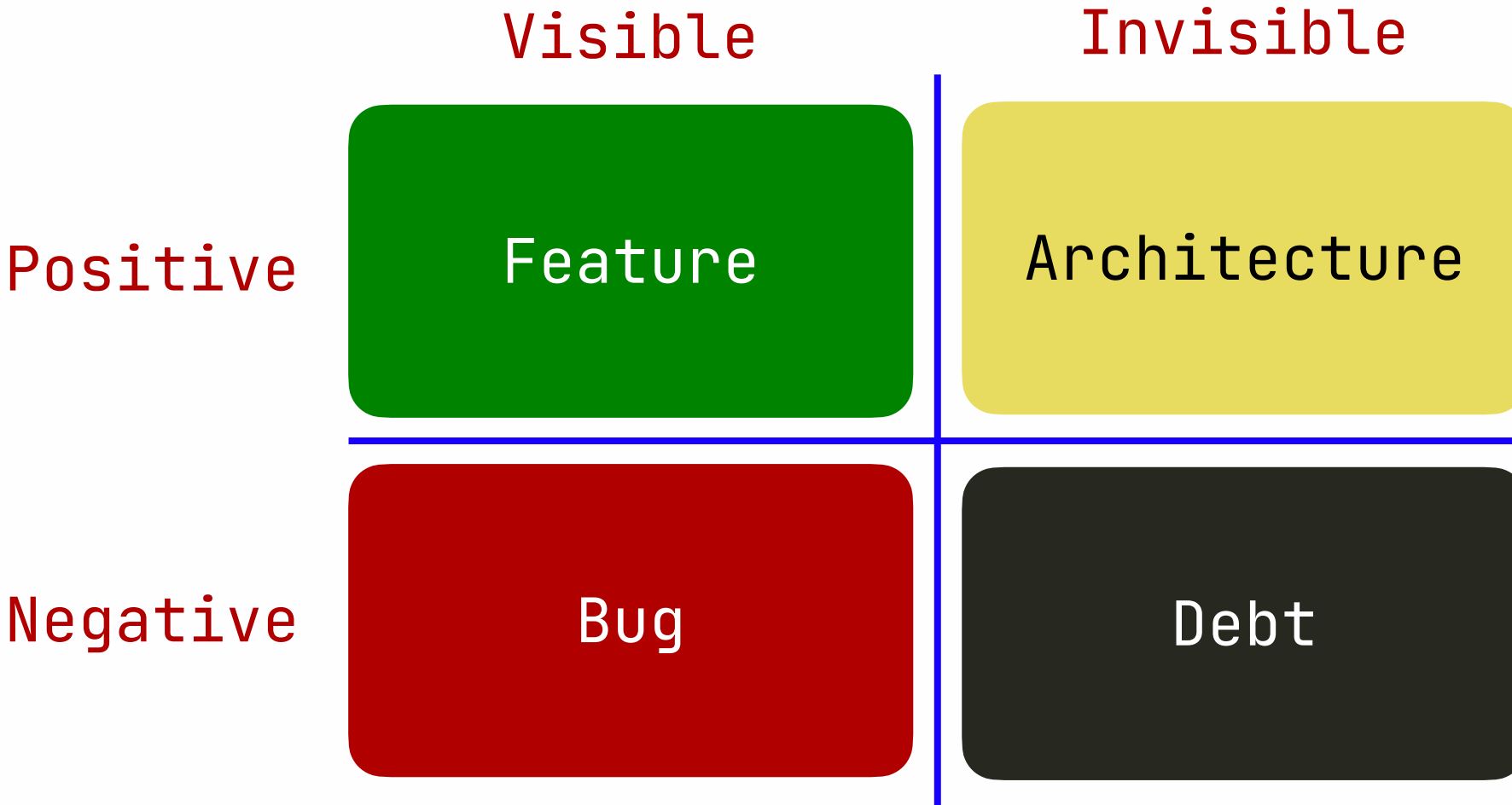
⇒ cannot evolve timely

⇒ make less money

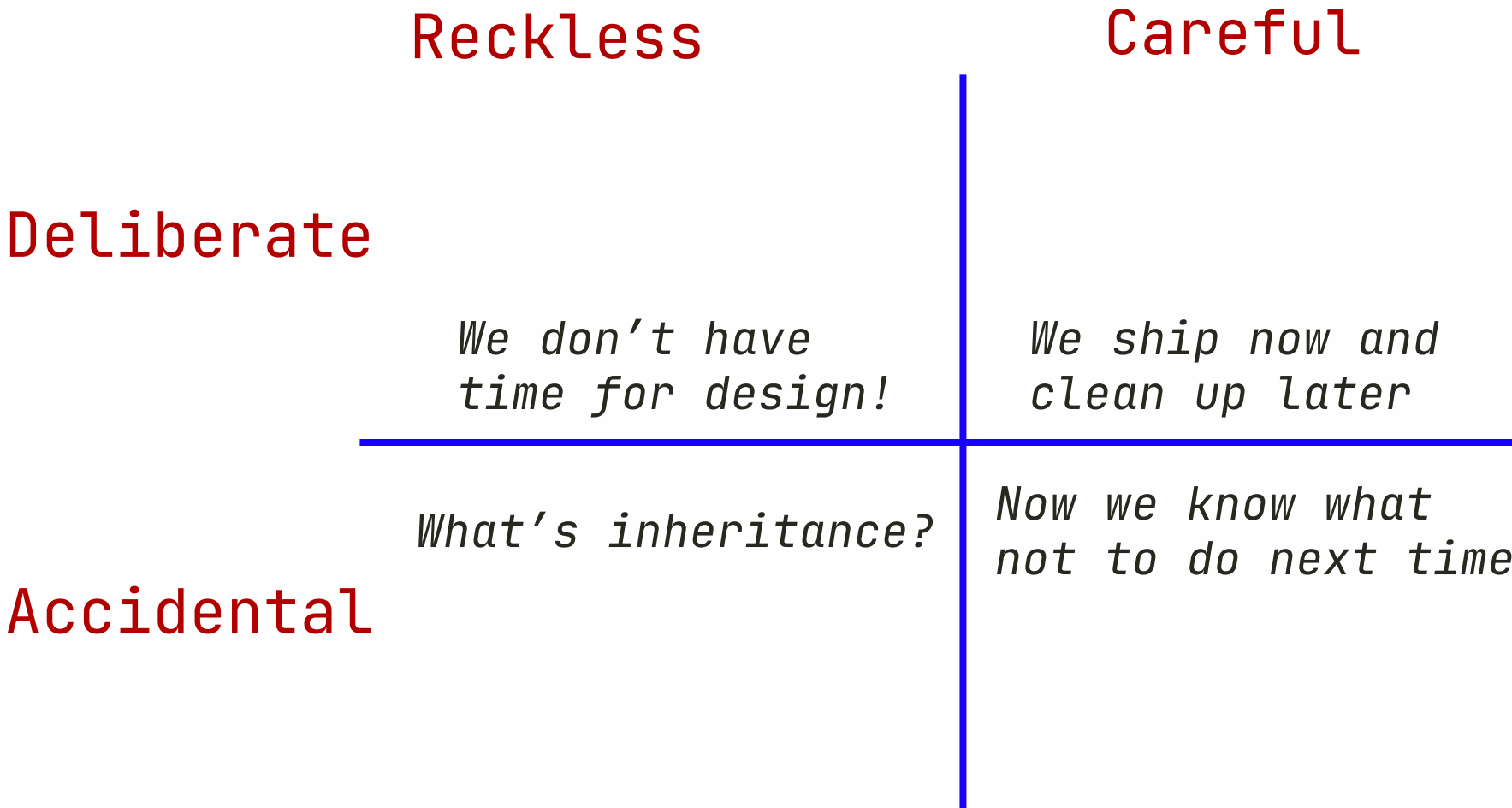
⇒ less money for dev

⇒ devs overstressed

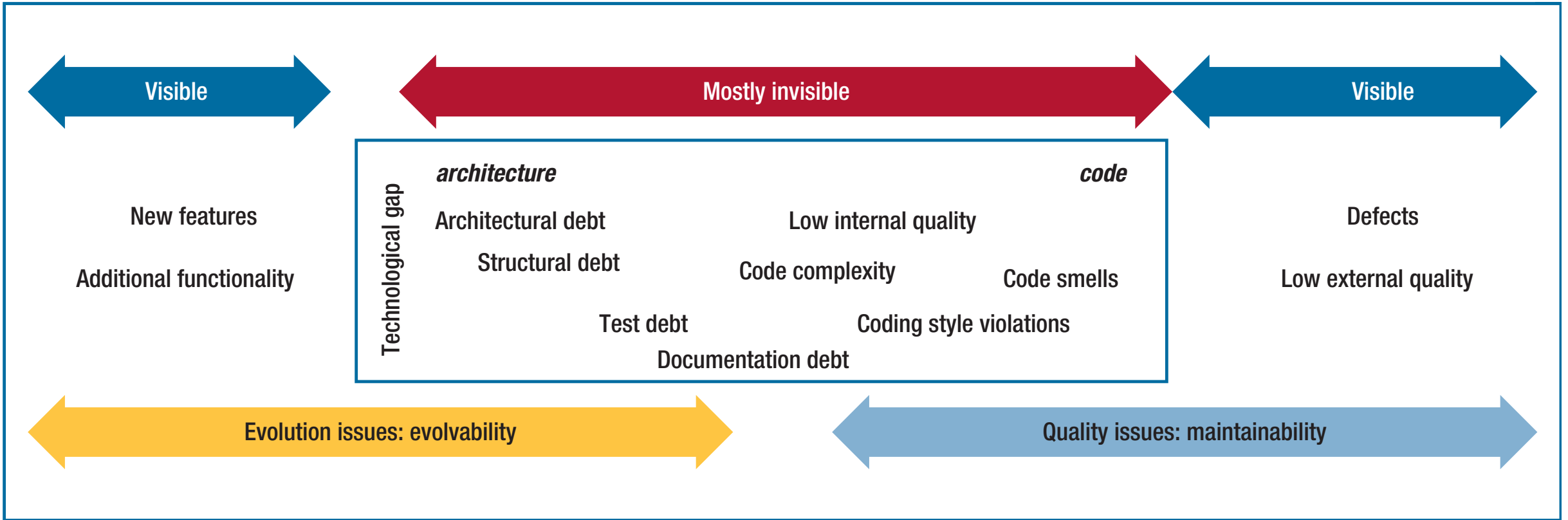
The Backlog



Technical Debt Quadrant



Martin Fowler, [Technical Debt Quadrant](#), 2014.



Technical Debt Landscape

Conclusion

- Good for short term, bad for long term
 - Bad decisions borrow future dev time
- Bugs/features are visible, architecture is not
- Code smells, coupling, req creep, lack of tests, ...
- Series of local changes, delayed refactoring, ...
- **All** systems accumulate debt
- Q&A Sessions @ Canvas
 - ⇒ v.zaytsev@utwente.nl
 - ⇒ <https://discord.gg/n7VQAPNBPD>