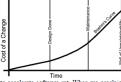


## Surprise! Software Rots!

Is software designed to be simple and elegant more valuable than software that is complex and hard to maintain? An Agile process accepts this as an important fact.

It may surprise you to learn software tost. Intellectually we know it really doesn't, but it might as well. Software rot is caused by



It may surprise you to learn software for is caused by surproper design and limited project resources. Complexity creeps in as easy code changes are made instead of difficult design changes. Code duplication accumulates rapidly during maintenance tasks.

After a while we notice that fixing one bug causes several even more subtle (and expensive) bugs to occur and the cost of maintenance goes up significantly. Eventually the cost of maintenance exceeds resources, it seems as if our code has decayed on its own in spite of our best efforts.

Barry Boehm found that as software proceeded through its life cycle the cost of making a change became larger. Ratios of making a change became larger. Ratios of making a change became larger Ratios of making a change became larger store that the cost of making a change after delivery versus project start are common. But ratios as low as 5:1 can be found thow flat this curve stays depends on many individual project factors.

This cost curve is commonly that requirements documents followed by complete, detailed, and error-free designs or pay a huge price later. That iniv what it means. Boehm's findings are not a condemnation of change but rather a causing the restriction of the prepared when changes occur A well run project keeps the cost of franges lover longer.

There are three life cycle events that seem.

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cost compromises. We fight software rot from start to finish so it can never dominate our decisions.

One common misconception about testing software is the cost. Most developers only know two data points; no tests, and too many tests. Finding bugs cost you something.

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