FAST 8x COMPARISON
8x compared to conventional development approaches

Compared to conventional development approaches, 8x is significantly faster in all aspects of the development process. Research estimates that 70-80% of the development done is related to managing data within an application. For those type of modifications, the following table compares the conventional way of doing development (after requirements are determined) compared to how it is done using 8x.

Item	Paradigm	What is done	Who	Duration	End result
Technical Design	Conventional	Write detailed technical design documents to make sure that everything is considered	Programmer in a vacuum	Days	Inconsistency (based on developer) and missing core needs
	With 8x	Describe the data and rules in Excel	Collaboration – business/technical	Hours	Consistent design document
Design Test Cases	Conventional	Figure out all of my test cases	Tester	Hours	Manually create too many redundant cases and not enough for good test coverage (and it was usually done too late in process)
	With 8x	Determine variations and ranges for key fields	Designer	Minutes	Many more meaningful cases to maximize test coverage
Program	Conventional	Write hundreds and hundreds of lines of code while hunting down the correct way to do exception handling, logging, concurrency, audits, make it international, etc.	Developer	Weeks	More than asked for on things not needed, inconsistency of standards, too many defects, and too many things not plugged into rest of system (logging, audits, metrics, exception handling, etc.)
	With 8x	Push the button, compile, and run	Designer	Minutes	Consistent code with no defects
Unit Test	Conventional	Unit Test	Developer	Days	Manual testing on a local machine with inadequate coverage
	With 8x	Review results in a report that got generated from the automated testing	Designer	Minutes	Time spent analyzing problems and/or interpretations of business rather than iterations of broken code
Functional Test	Conventional	Run though all of the test cases manually	QA	Days	Dealing with basic defects and inconsistencies, focus on meeting the business need sometimes gets lost
	With 8x	Run through the user experience to make sure it meets business need	QA and/or Designer	Less Days	Time spent analyzing problems, user experience, and/or interpretations of business rather than iterations of broken code
The Inevitable Re-work and Defect Correction	Conventional	Repeat of process above with significant changes to a lot of code	Team	Weeks/ Days	Broke as many things as were fixed and took too long
	With 8x	Change configuration and re-run generation	Designer	Hours	Encapsulated changes didn't break anything and issues were resolved much sooner
Technical Documenta-tion Updates	Conventional	Let's face it, programmers rarely do this	Developer	No time	Doesn't exist
	With 8x	No extra work	8x	No time at all	Documentation that matches what is actually in the system

What about the remaining 20-30% of development?

Since not all development fits into the category of managing data, it is necessary to have an efficient platform for development. 8x provides unique benefits even in areas where code cannot be generated.

- Because all of the data management was done using 8x, events were automatically created to help the programmer anticipate where they will need to make changes. This significantly reduces the amount of time required to hunt for the behavior of when the enhancement should be invoked and allows the team to focus on developing the outcome.
- Interacting with code that has been consistently built makes it easier for new developers to get up to speed and more efficient for the experts to know where everything is.
- 95% of the unit test scripts can be re-used and the remaining 5% can be added to the nightly automated process
- Research has shown the cost of fixing a defect during the development process vs. in system test in 10-20x. Using the framework and process will allow for custom programming to be found much earlier in the process.

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