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# Comparison between waterfall model, incremental model, prototype model, spiral model, Agile

|  | Waterfall model | Incremental model | Prototype model | Spiral model | Agile model |
|---|---|---|---|---|---|
| Size of software | Large project | Any size project | Any size project | Large project | Small/ medium |
| Sequence of phases | Linear | interleaved | interleaved | interleaved | interleaved |
| Number of team | Large team | Any team | Any size team | Large team | Small team |
| documentation | Has Document In each phase | Has documentation | Has documentation | Detailed document | Simple document |
| cycle | Only one cycle | Multi cycles | Multi cycles | Multi cycles | Multi cycles |
| feedback | No feedback During software | Feedback in each increment | Quick user feedback To effective solution | End of each iteration | End of each iteration |
| testing | After code phase | After every iteration | After every iteration | Receive customers comment | Automated testing |

| change | Is difficult | Is easy | Is easy | Is easy | Is easy |
|---|---|---|---|---|---|
| Interaction of customer | Only in beginning | Involvement in intermediate | Involvement Is high | Interaction is less | Member in team |
| risk | High amount of risk | low amount of risk | No risk analysis | Risk analysis | No risk analysis |
| qualification | Specialized expertise for each phase | Cross-function teams | User centered. design | Mix of technical and risk | Team highly qualify |
| requirement | Are fixed | Good planning | Not fixed | Not detailed | increase |
| reusability | Least possible | Possible to Some extent | Possible to Some extent | Possible to Some extent | Possible to Some extent |
| Pair programming | Single ownership | Single ownership | Single ownership | Single ownership of code | support |
| ownership | centralized | shared | distributed | collaborative | collaborative |
| time | Fixed time | No fixed time | No fixed  time | No fixed time | Fixed time |
| priority | Fixed priority | Flexible priority | Flexible priority | Flexible priority | Change By time |