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A system is complex when;

- A design is coupled.
- Coupling propagates through combinatorial manner
- The scale order is very high. (over 10⁹)
- System ranges vary with time. The outcome is uncertain. (low probability of success)

35



























Summary

- Surfaces become more important at smaller length scales
- Surfaces with specific functionalities are desirable in many micro/nano applications
- Integration of 1) patterning techniques, 2) chemistry, and 3) biomolecular interactions provides us with versatile tools to engineer surfaces with specific properties
- We will explore these aspects in lab #6

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