Week 3: Evaluation of Programming Languages
Week 4: Structured Programming

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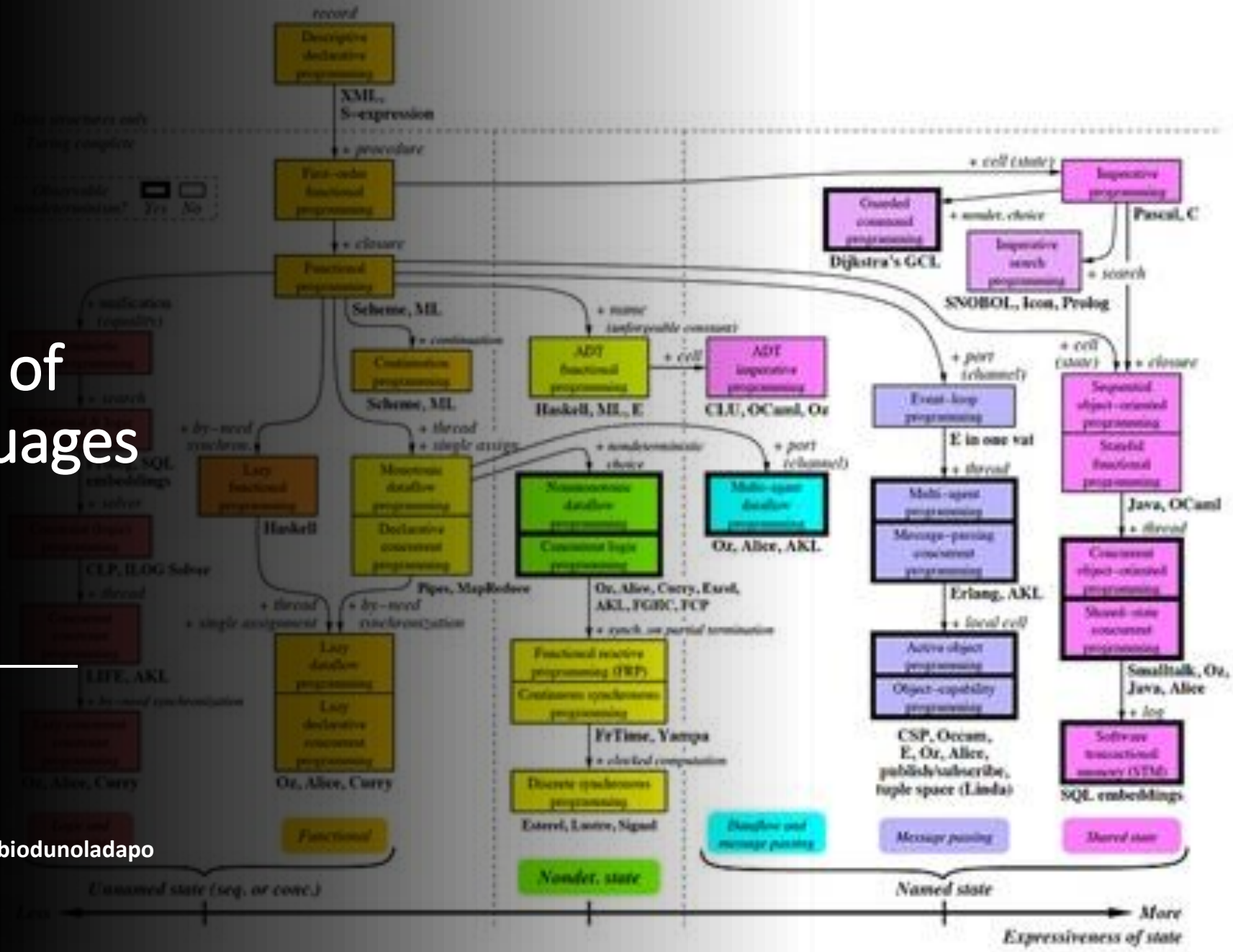


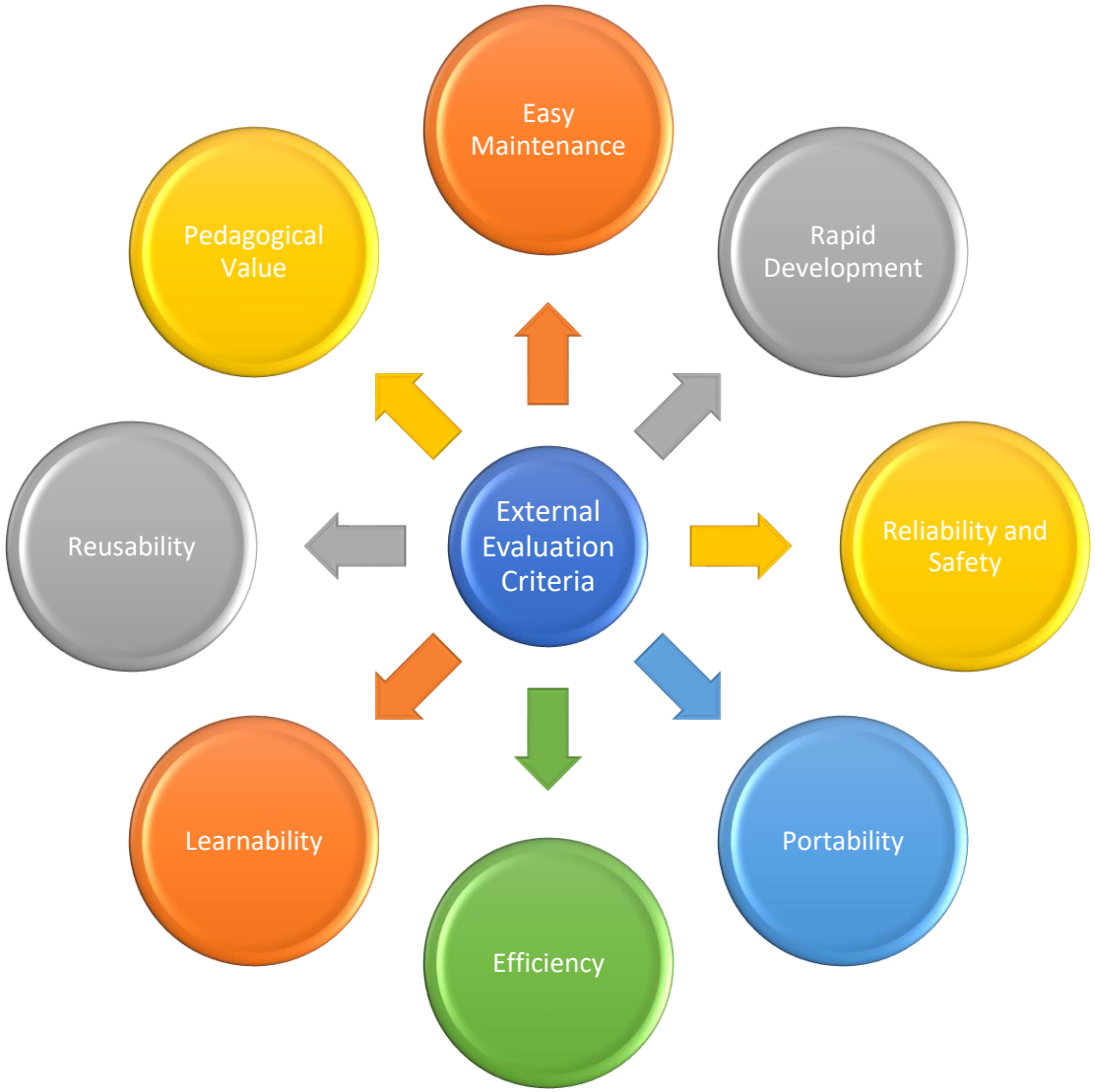
Figure 2. Taxonomy of programming paradigms

Learning Objective

i. Evaluate programming languages

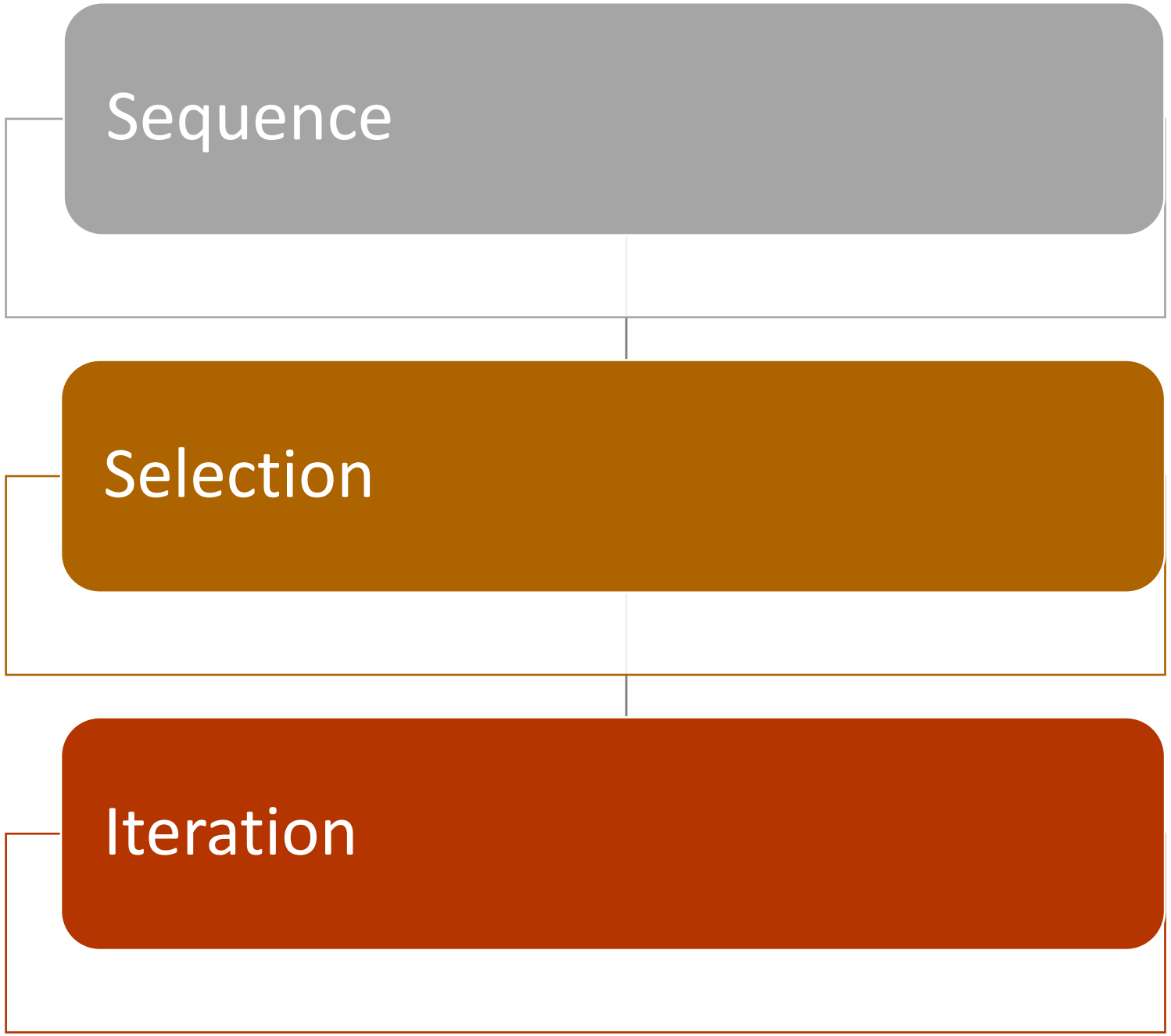
ii. Describe structured programming, Event driven programming, Concurrent programming.

How do we evaluate a programming language

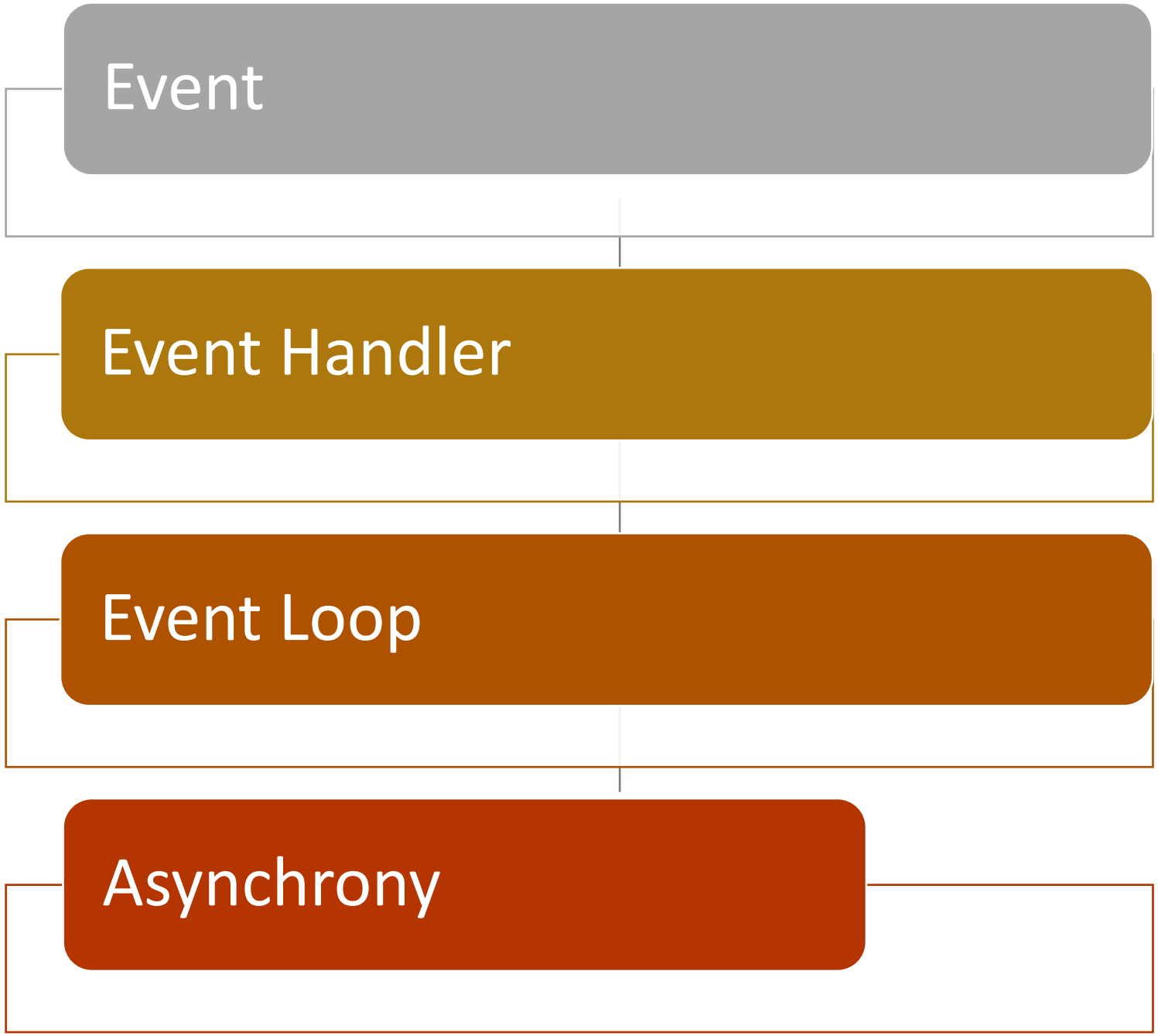


How do we evaluate a programming language

Structured programming is a programming paradigm aimed at improving the clarity, quality and development time of computer program by making extensive use of subroutines, block structures, for and while loops.



An event driven program is a continuous loop that responds to events that are generated in an unpredictable order



Concurrent Programming

- A concurrent program is a collection of cooperating processes, sharing information with each other from time to time but generally operating asynchronously.

– building programs in which multiple computational activities

overlap in time and typically interact in some way

- without necessarily running on separate physical processors

– logical/abstract/programming level

Concurrent programming languages include Linda and High-performance FORTRAN.