

# SOFTWARE ENGINEERING





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## WEEK 2

# INTRODUCTION TO SOFTWARE ENGINEERING

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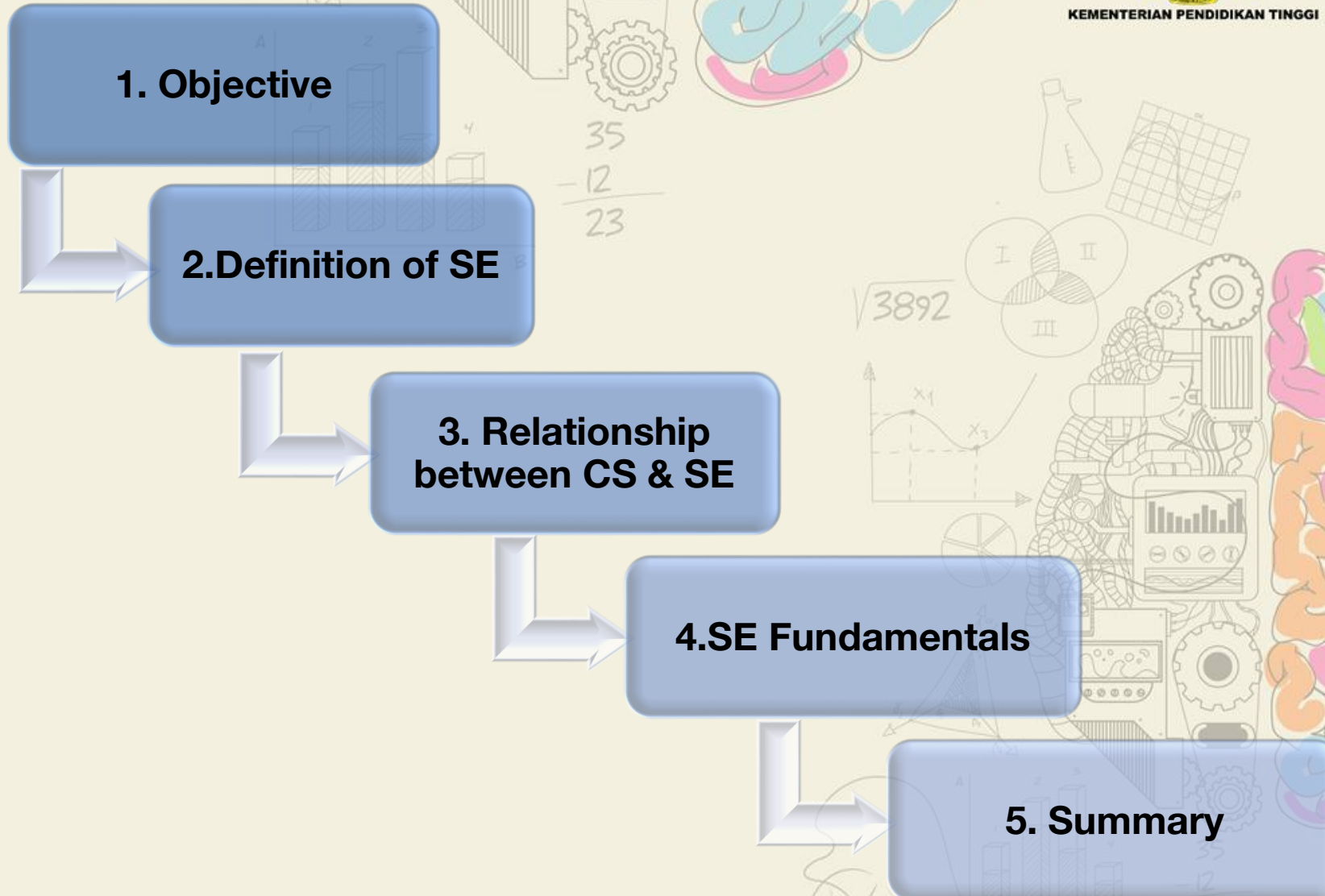
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# Content



# Objective

**Understand what software engineering is, relationship with computer science and why it is important**

**Understand that the development of different types of software systems may require different software engineering techniques**

**Understand some ethical and professional issues that are important for software engineers**



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# Definition Of Software Engineering

Attributes Of  
Good

## Software

- Should deliver the required functionality and performance to the user.
- Should be maintainable, dependable, usable and etc.

Computer programs and  
associated documentation

## Software Engineering

Engineering discipline that  
is concerned with all aspects  
of software production



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# Relationship between CS and SE

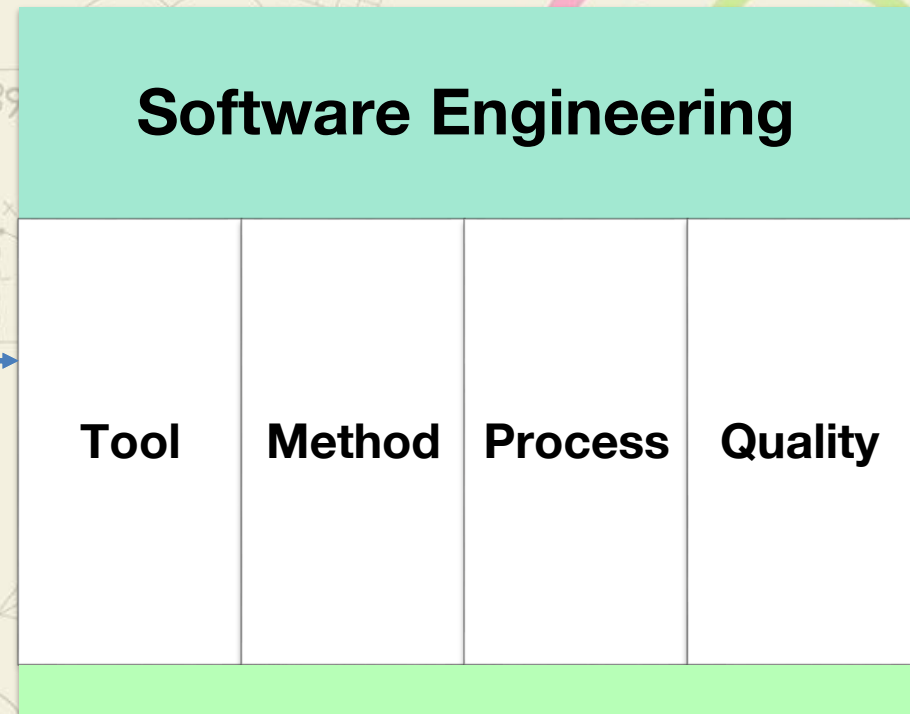
## Computer Science



**CUSTOMERS**

Theories  
Computer functions

Problem





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# Why SE is Important?

SE is important for two reasons:

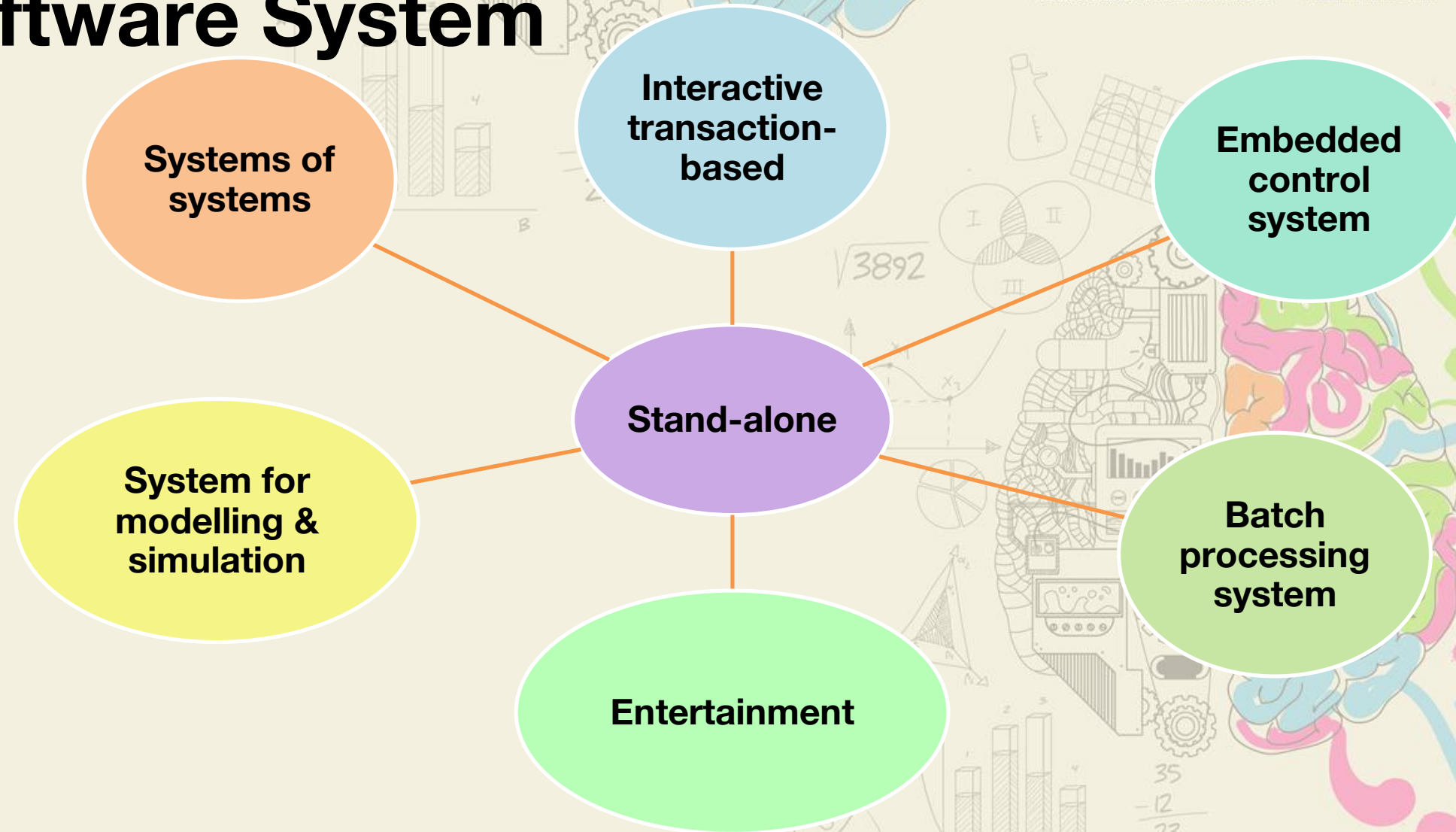


Advance software system has become a driving force

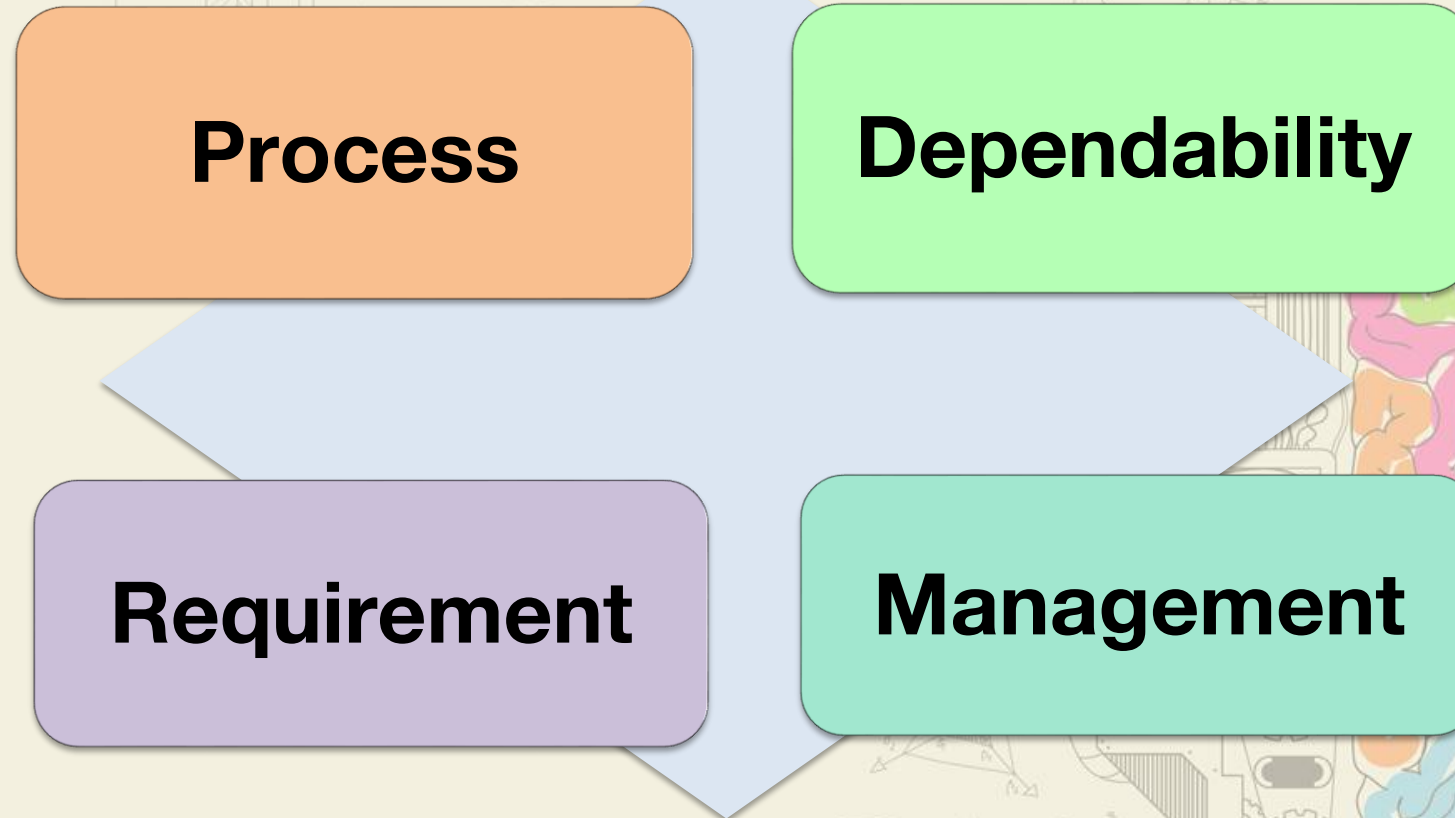


Cost effective

# Different Types of Software System



# SE Fundamentals





# SE Code Of Ethics & Professional Practices



# SUMMARY

**Software engineering is an engineering discipline that is concerned with all aspects of software production.**

**There are many different types of systems and each requires appropriate software engineering tools and techniques for their development.**

**Software engineers have responsibilities to the engineering profession and society. They should not simply be concerned with technical issues.**