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# 软件工程

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## 3.2

# How to Achieve Requirements?

# How to Achieve Requirements?

- *No romantic*

---- *It is very realistic.*

- *Steps:*

1. Preparation
2. Requirements elicitation & recording & analysis
3. Requirements documentation
4. Requirements confirmation



# How to Achieve Requirements?

## **1. Preparation :**

### **3 steps:**

- (1) What to elicit/capture**
- (2) The ways to do?**
- (3) When, where and who**

# How to Achieve Requirements?

## 1. Preparation

- **What to elicit/capture?**
  - **Topic**
  - **Analyst should draft Questionnaire**
  - **Normally, the user is impatient to describe.  
It will be better to make the user choose or judge.**

# How to Achieve Requirements?

## 1. Preparation

### ■ The ways to do?

- Interview users
- Questionnaires
- Forms analysis
- Video cameras
- Scenarios

# How to Achieve Requirements?

## 1. Preparation

### ■ The ways to do?

- Rapid prototyping
- Interview experts
- Analyze existing similar product
- Elicit rqmt. from domain standards & rules
- Search material from Internet

# How to Achieve Requirements?

## 1. Preparation :

- Requirement analyst contacts interviewee to determine
  - Time
  - Location
  - Individuals



# How to Achieve Requirements?

## 2. Requirements

---- elicit & record & analyze

《Requirements Info. Record Table》

# How to Achieve Requirements?

## 3. Requirements Documentation

《 Requirements Documentation 》



# How to Achieve Requirements?

- Two types of requirements:
  - **Functional**: relate to the functionality of the target software directly
  - **Nonfunctional**: properties of the target software, such as reliability and maintainability, or relate to the environment in which the software will run.

# How to Achieve Requirements?

## 4. Requirements Confirmation

**Both the clients and users sign the requirements documentation.**