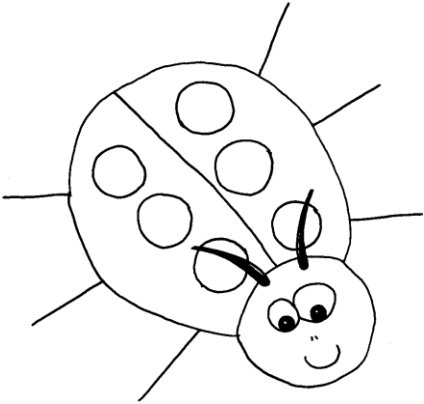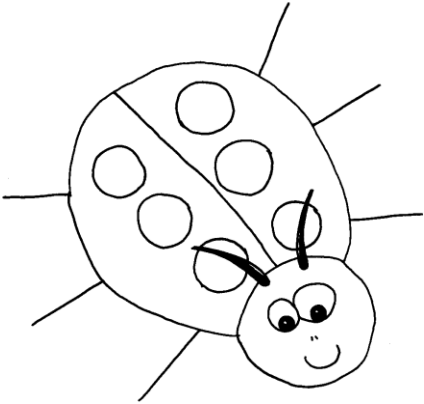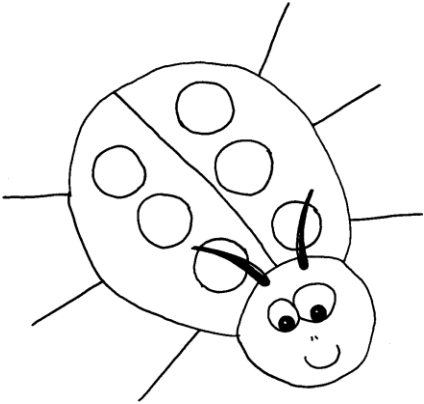# IEEE
Test Plan
Outline

0.1

IEEE Test Plan Outline

- Test plan lifecycle
  - Document is live
  - Changes during the project
    - New business context
    - New technical context
    - New testing context
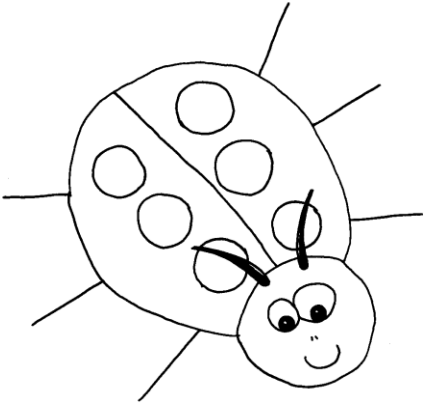   - Frequent updates during project

IEEE Test Plan Outline

- Test plan identifier and revision history
  - Unique identifier
    - Incorporate team name
    - Incorporate project name
  - Revision history
    - As project advances the test plan should be updated periodically, at least once per week
    - Each revision should be maintained
    - ***All revisions must be submitted with project deliverables***
    - Revision history needed
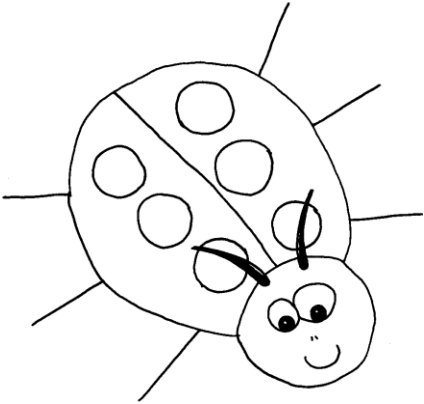   - What changed, by whom, when

IEEE Test Plan Outline

- Table of contents
  - Include all sections of document
  - Make sure it is consistent
    - Remember documents of different sources will be included
    - Take care about automatic page numbering and indexing
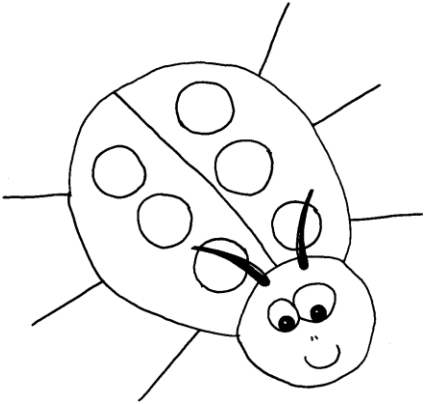
0.4

IEEE Test Plan Outline

- References
  - Explicit references
    - Document
    - Section
    - Pages
  - References about
    - Product under test
    - Testing techniques
    - Domain of product under test
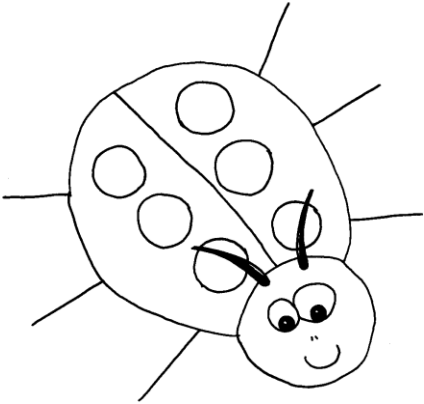   - Subject matter expertise

IEEE Test Plan Outline

- Glossary
  - List of terms used in the project which will help us manage, describe and communicate information about the testing
  - Define terms used in project about the types of testing
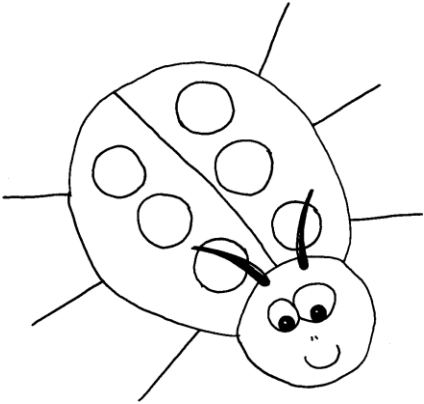 - Define terms used in project about the product being tested

IEEE Test Plan Outline

- Introduction
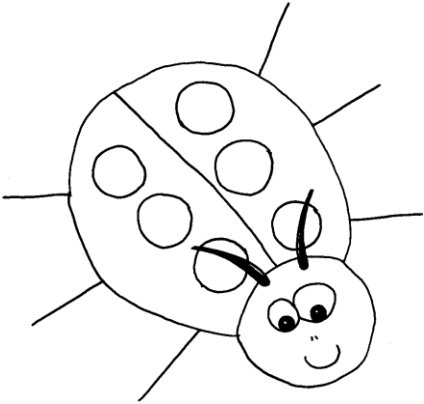 - Terse introduction
  - Give project context

IEEE Test Plan Outline

- Test items
  - What is the product which we are testing?
  - What are the major components?
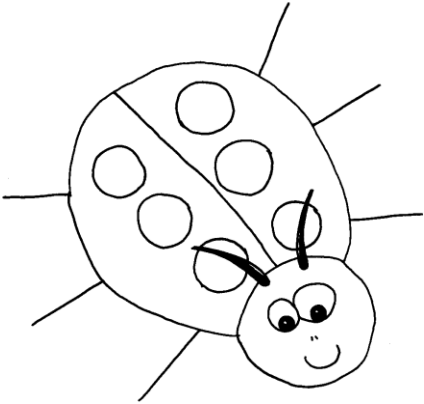 - What makes the product distinct?

0.8

IEEE Test Plan Outline

- Software/Project risk issues
  - Top risks related to the testing project
    - Specific to your testing project (not general)
  - Identify the risks and contingency plans for each
  - Why are these risks high
    - Business importance?
    - Likely hood of occurrence
  - ***At least top risks should be identified***
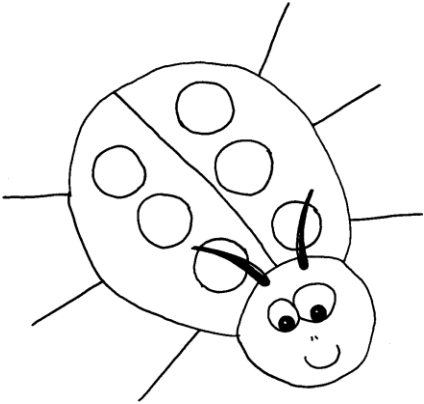 - ***Risks should be ranked***

IEEE Test Plan Outline

- *Features* to be tested
  - This is the summary of testing objectives which will be included in the project testing
  - *Features* can be considered any testing idea
    - Usage scenarios
    - Capabilities
    - Quality factors
    - Failure modes
    - Implicit and explicit requirements
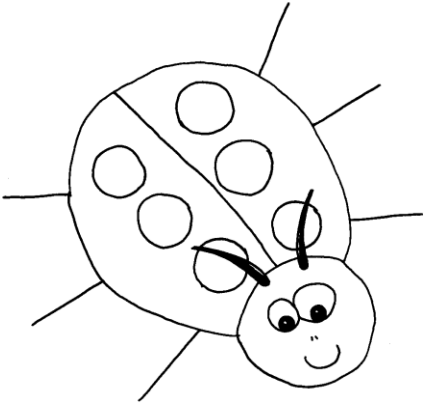   - Interactions
    - Platforms
    - Other

IEEE Test Plan Outline

- Features Not To Be Tested
  - Which testing ideas will not be included
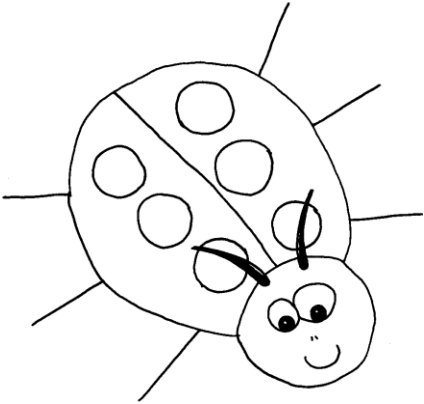 - Defines scope of the testing project

0.11

IEEE Test Plan Outline

- Approach
  - Which testing approaches will be used for the various testing objectives
  - Explicit
    - Which approach for each testing objective
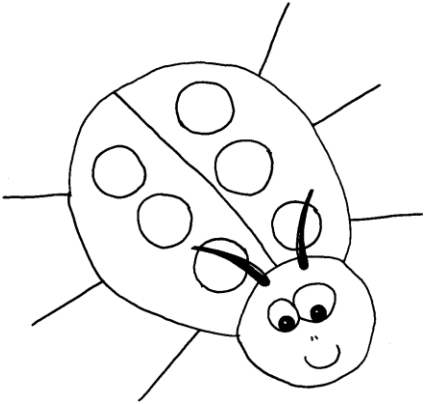 - Ensure approaches are defined in the glossary

IEEE Test Plan Outline

- Item pass/fail criteria
  - For each testing objective what is the testing oracle (strategy to assess correctness)
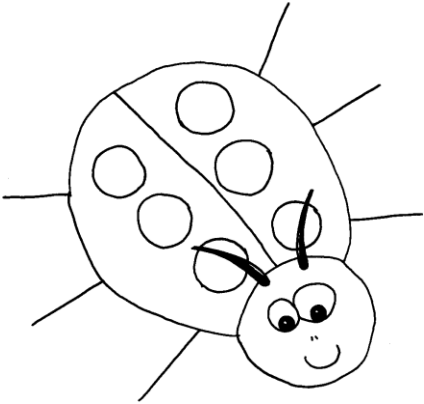
IEEE Test Plan Outline

- Suspension criteria and resumption requirements
  - How will be know when to stop testing
  - What conditions could occur to cause us to stop testing?
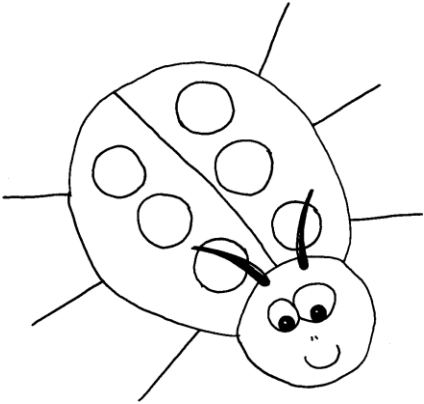 - What should be done to resume testing at a later date?

IEEE Test Plan Outline

- **Test deliverables**
  - Documents
  - Status Reports
    - Frequently updated at least weekly
  - Test Charters for exploratory testing
  - Tester notes from testing sessions
  - Test case descriptions, procedures, test data
  - Bug reports
    - Bug lists
    - Bug trend curves
  - Project post mortem review
  - Recommendations
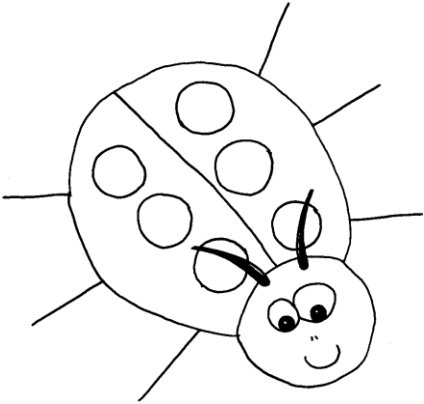
IEEE Test Plan Outline

- Testing tasks
  - What work is to be done:
    - Preparing for testing
    - Implementing testing
      - Different approaches
    - Reporting project status
    - Final results
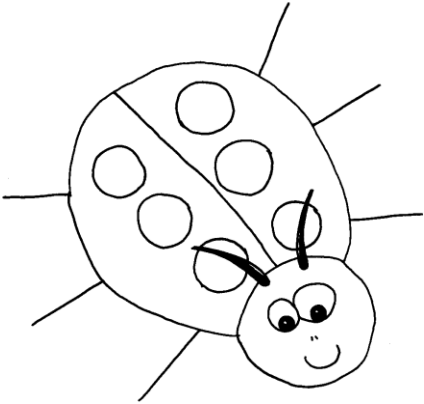   - Managing the project

IEEE Test Plan Outline

- Environmental needs
  - Hardware and software required for the project testing
    - Include tools used to record test results, screen captures, etc
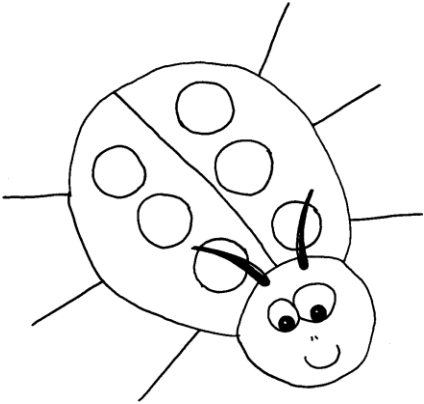 - Be explicit about versions and configurations required

IEEE Test Plan Outline

- Responsibilities
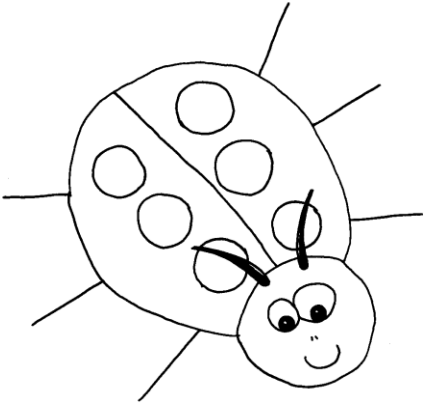 - Roles and responsibilities of team members

0.18

IEEE Test Plan Outline

- Staffing And training needs
  - Who is in the team
  - Describe relevant skills and experiences
  - What special training will be done as part of the project

IEEE Test Plan Outline

- Schedule
  - Main deliverables
  - Main work schedule
  - Work breakdown
  - Milestones

0.20

IEEE Test Plan Outline

- Questions?