IT Auditing for non-IT Auditors

Stephen W. Minder, CEO

YCN Group, LLC

Can non-IT Auditors audit IT?
Yes, We Can!
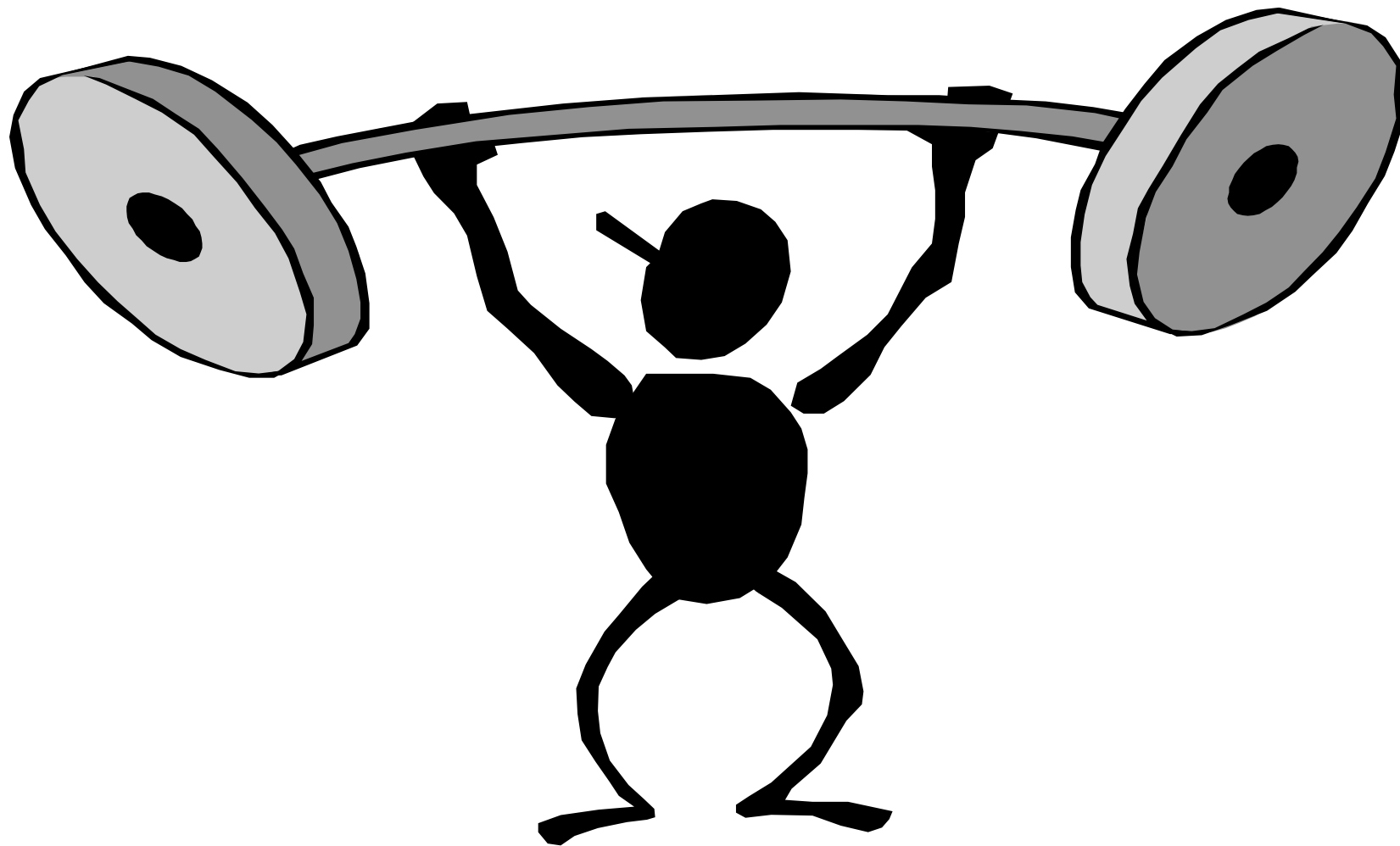
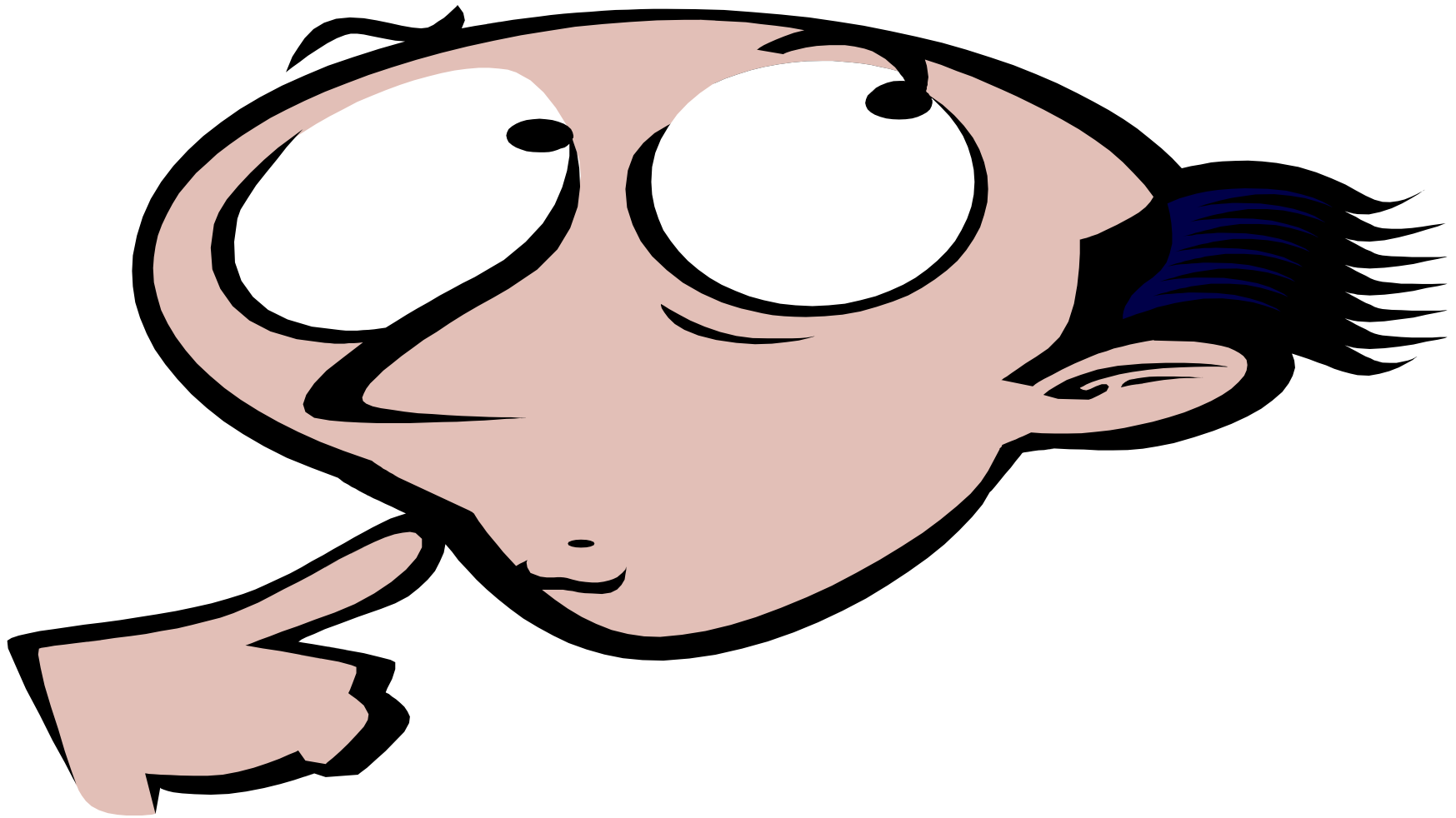# Learning the Language

❖ The Acronym ABC's of Information Technology
❖ Really - "IT Risk"
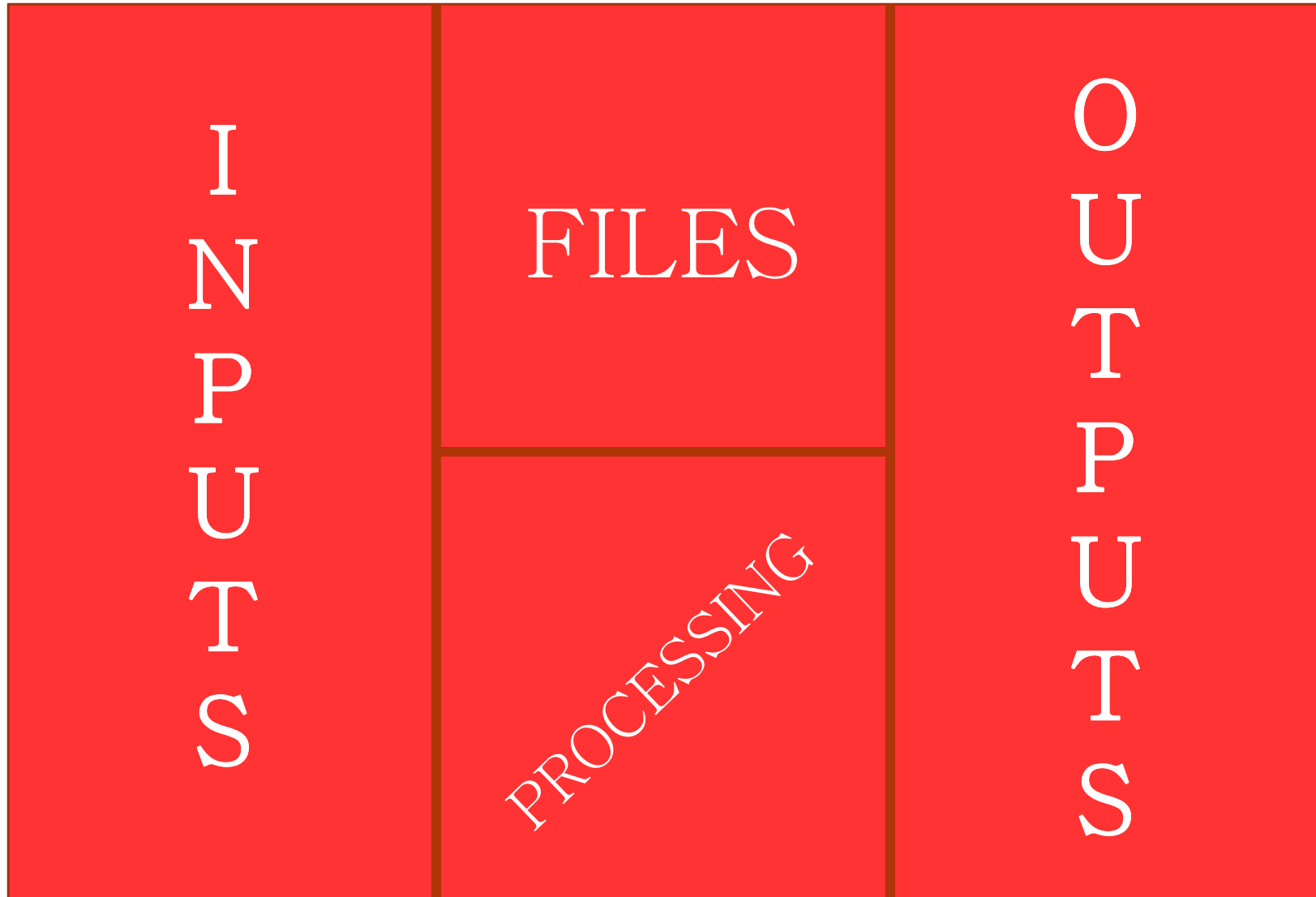
Top Secret – Your Eyes Only!

AGENDA

- ☐ **Understanding the Blueprint**
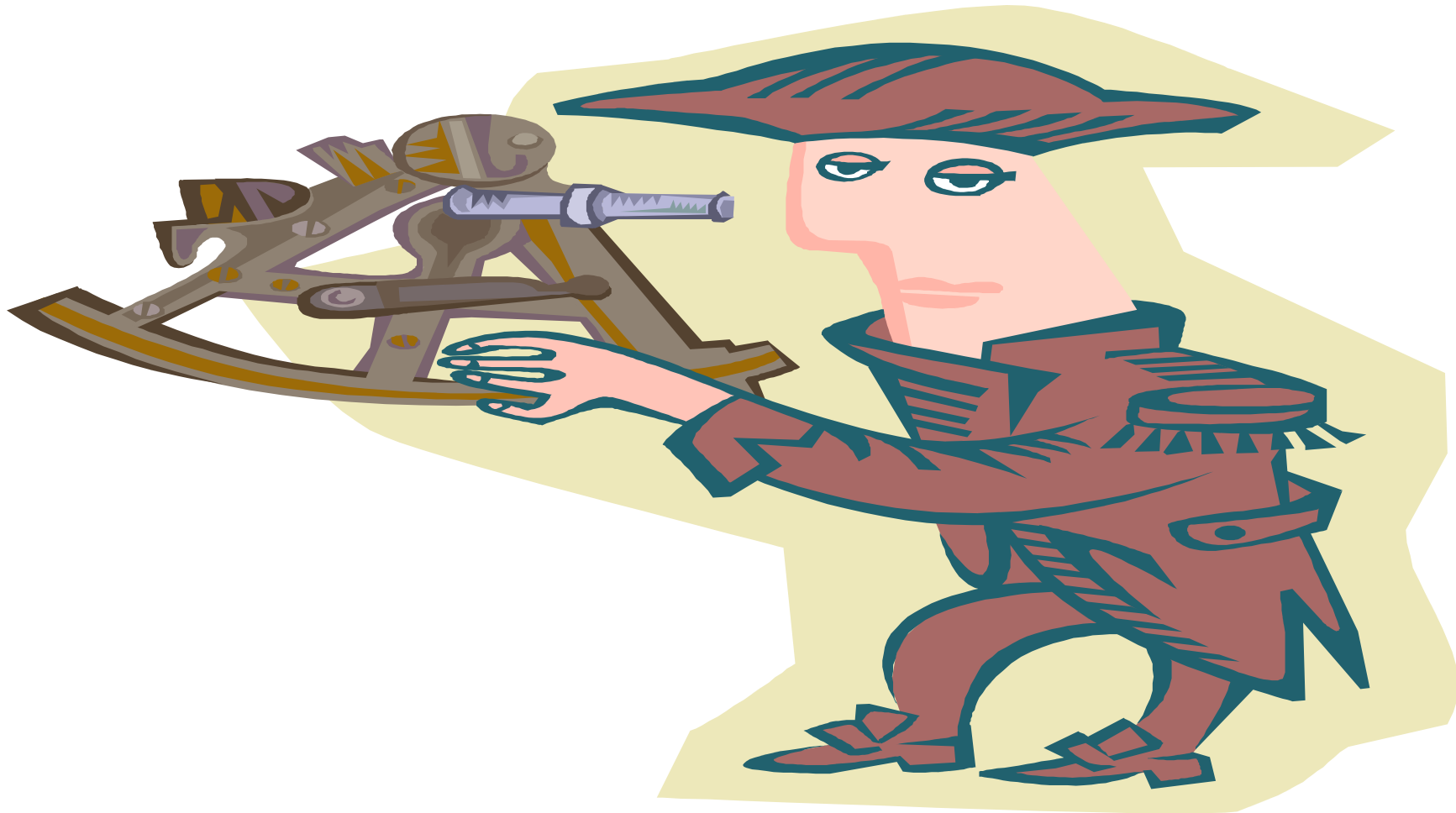- ☐ **Navigating the Technology**
- ☐ **Testing What We Can Test**
- ☐ **Communicating Results**

Understanding the Blueprint

ENVIRONMENT

I N P U T S

FILES

O U T P U T S

PROCESSING

Navigating the Technology

Technology

➢ **SQL (Structured Query Language)**
➢ **Modern Programming Language**
  ➢ **C#, C++, VB, Java**
➢ **Other**
  ➢ **ODBC (Open Database Connectivity) Drivers**
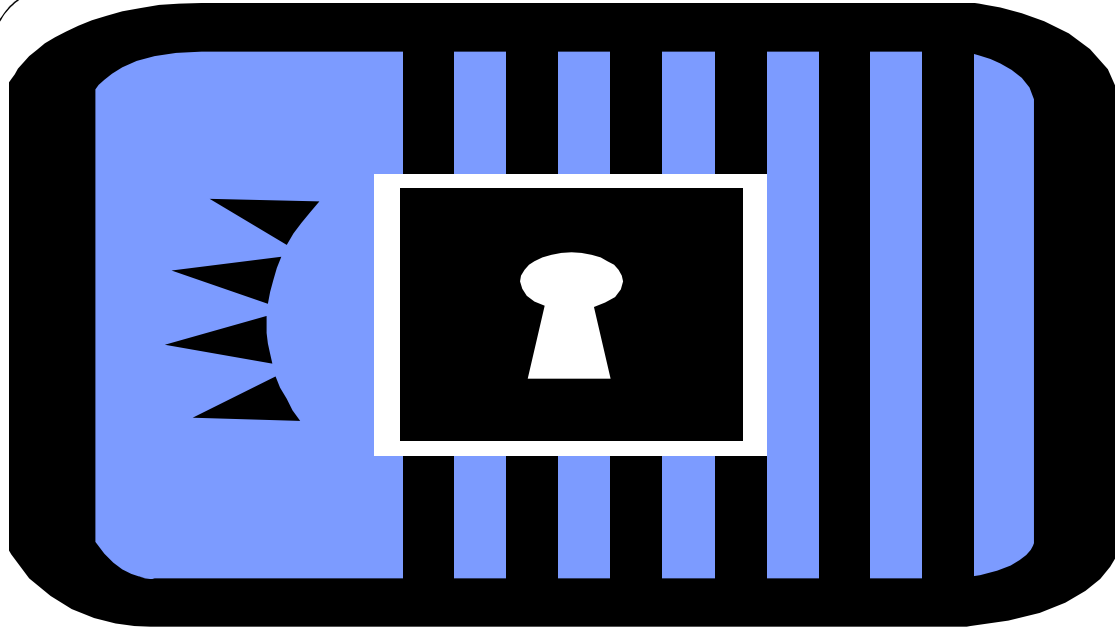➢ **Utilities**

Testing What We Can Test

Program Change Control

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- o **Authorization**
- o **Segregation**
- o **Documentation**
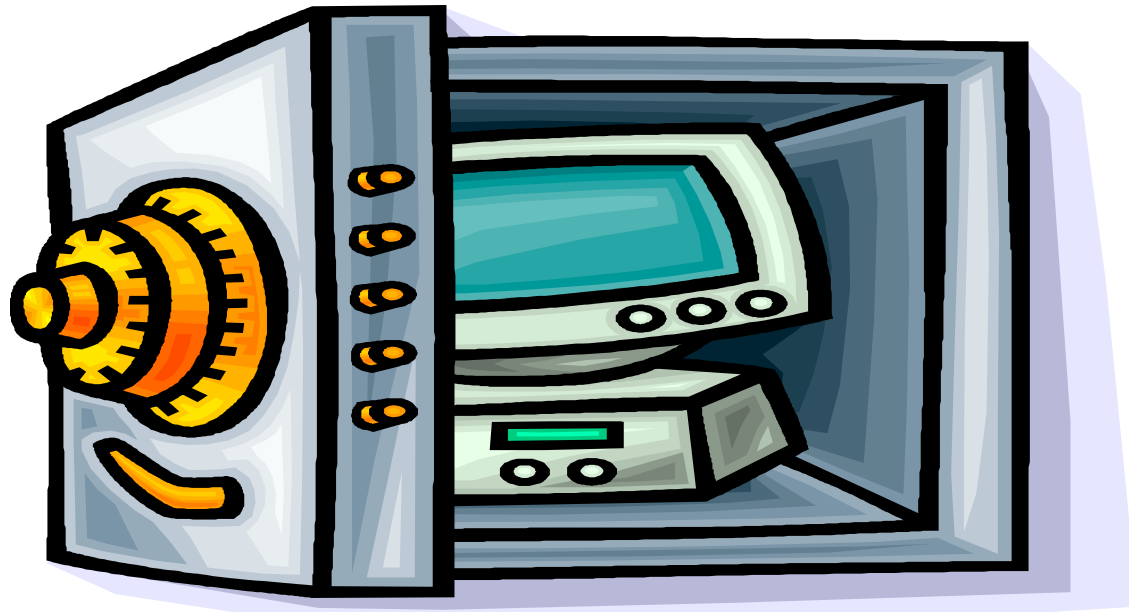- o **Safeguards**

Logical Access Control

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- **Authorization**
- **Least Possible Privilege**
- **Vital Updates**

- **Terminations**
- **Re-Hires**
- **Job Changes**

Protecting Files

- **Physical Access**
- **Logical Access**
- **Backup**
- **Monitoring**
- **Exception F/U**

Processing Controls

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I. **Specifications**

II. **Testing**

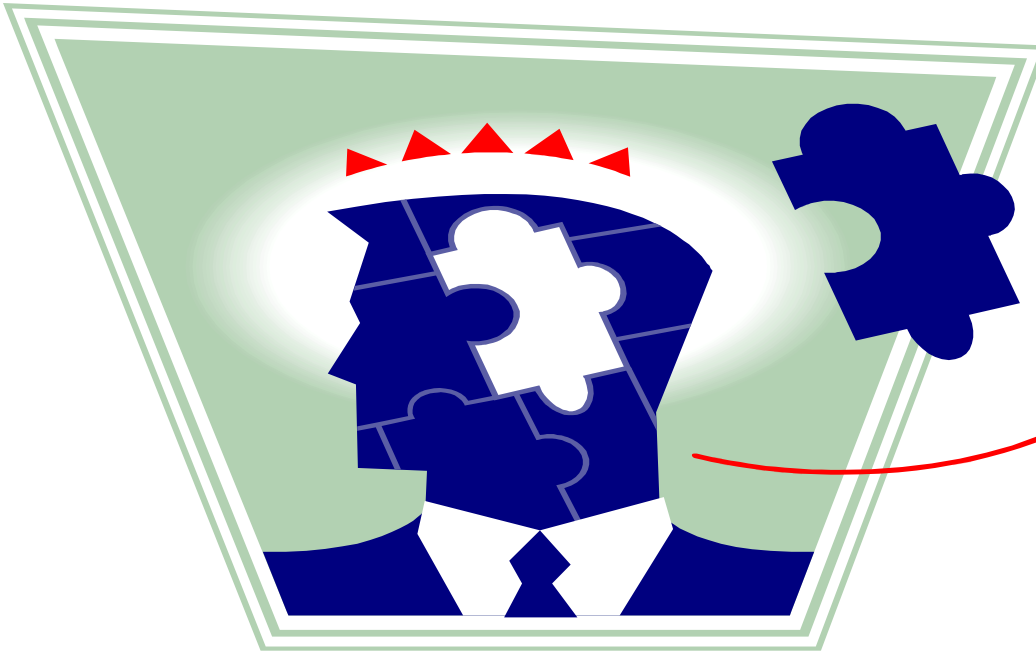 1. **Data Integrity**

  2. **Correctness**
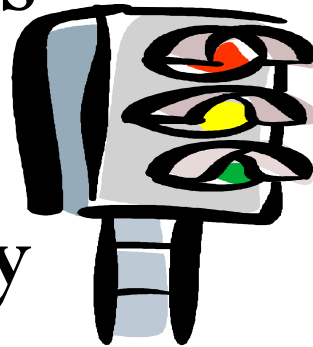
III. **Safeguards**

  1. **Edits**

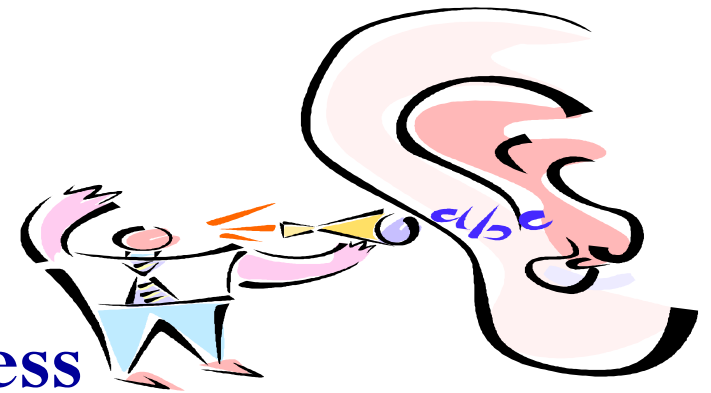 2. **Limits**

  3. **Validation**
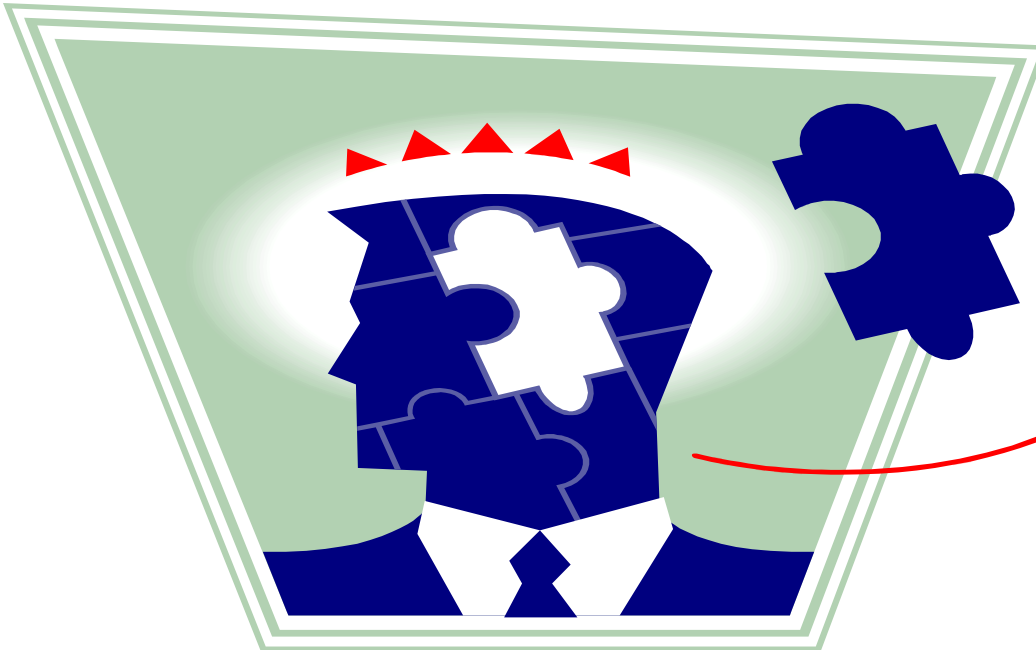
Communicating Results

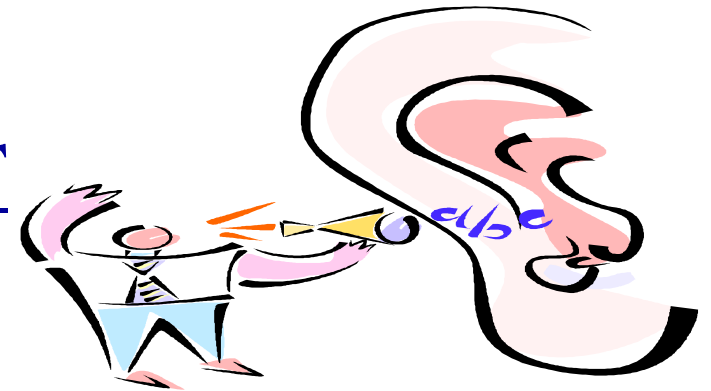Talk to Technology Professionals

- **Explain <u>Business</u> Risks**
- **Relate to the <u>Business</u> Risk**
- **Describe IT impact on <u>Business</u>**
- **Understanding <u>Business</u> Issues**
- **Transparency**

Talk to Business Professionals

- **Explain Business Risks**
- **Relate to <u>IT</u> influences**
- **Business Description of <u>IT</u>**
- **Describe <u>IT</u> Issues**
- **Transparency**

Required Emphasis for Discussion

➲ Throw away the "IT Mystique"

➲ Stick to the Facts

➲ Focus on Risks and Opportunities

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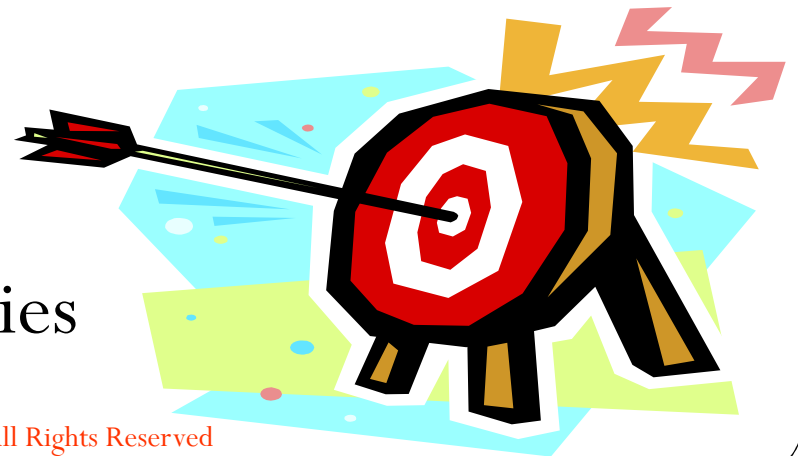
Build Consensus

1. **Business Unit Mgmt**
2. **Senior Management**
3. **System Owners**
4. **IT**

5. **Stakeholders**
6. **Legal**
7. **Security**
8. **Audit**

QUESTIONS?

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w3schools.com

HOME   HTML   CSS   JAVASCRIPT   JQUERY   XML   ASP.NET   PHP   SQL   MORE...   REFERENCES | EXAMPLES | FORUM | ABOUT

SQL Basic

SQL HOME
SQL Intro
SQL Syntax
SQL Select
SQL Distinct
SQL Where
SQL And & Or
SQL Order By
SQL Insert
SQL Update
SQL Delete

SQL Demo

SQL Try It

SQL Tutorial

« W3Schools Home   Next Chapter »

SQL is a standard language for accessing databases.

Our SQL tutorial will teach you how to use SQL to access and manipulate data in:

MySQL, SQL Server, Access, Oracle, Sybase, DB2, and other database systems.

SQL Quick Reference From W3Schools

SQL Statement	Syntax
AND / OR	SELECT column_name(s) FROM table_name WHERE condition AND|OR condition
ALTER TABLE	ALTER TABLE table_name ADD column_name datatype or ALTER TABLE table_name DROP COLUMN column_name
AS (alias)	SELECT column_name AS column_alias FROM table_name or SELECT column_name FROM table_name AS table_alias
BETWEEN	SELECT column_name(s) FROM table_name WHERE column_name BETWEEN value1 AND value2
CREATE DATABASE	CREATE DATABASE database_name
CREATE TABLE	CREATE TABLE table_name (column_name1 data_type, column_name2 data_type, column_name2 data_type, ...)
CREATE INDEX	CREATE INDEX index_name ON table_name (column_name) or CREATE UNIQUE INDEX index_name ON table_name (column_name)
CREATE VIEW	CREATE VIEW view_name AS SELECT column_name(s) FROM table_name WHERE condition

C# Reference

Visual Studio 2012 | Other Versions ▾ | 3 out of 5 rated this helpful - Rate this topic

This section provides reference material about C# keywords, operators, compiler errors, and warnings.

◢ In This Section

C# Keywords

Provides links to information about C# keywords and syntax.

C# Operators

Provides links to information about C# operators and syntax.

C# Preprocessor Directives

Provides links to information about compiler commands for embedding in C# source code.

C# Compiler Options

Includes information about compiler options and how to use them.

C# Compiler Errors

Includes code snippets that demonstrate the cause and correction of C# compiler errors and warnings.

C# Language Specification

Provides pointers to the latest version of the C# Language Specification in Microsoft Word format.

| Search all of Office.com | 🔍 |

Overview of connecting to (importing) data

This reference article discusses importing and connecting data. You will learn about tasks like importing, updating, securing, and managing data.

In this article

⇩ Working with external data connections

   ⇩ Understanding the basics of data connections

   ⇩ Finding connections

   ⇩ Editing connection properties

   ⇩ Managing connections

   ⇩ Sharing connections

   ⇩ Using external data ranges and properties

   ⇩ Understanding data source support in Excel and Excel Services

   ⇩ Understanding Microsoft Data Access Components

   ⇩ Using ODBC to connect to data sources

   ⇩ Using OLE DB to connect to data sources

⇩ Refreshing data

⇩ Importing data from data sources

   ⇩ Importing data from an Access database

   ⇩ Importing data from the Web

   ⇩ Importing text files

   ⇩ Importing data from Microsoft SQL Server

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How to hack, For Beginners

This is a simple SQL injection technique for **beginners**

HD   3 years ago   •   177,173 views

by Eman01996

6:12

Cool hacking tricks for noobs and beginner part 1 (by Piyush) www.hackingbuddy.in

once chrome.bat file is made (shown in the video),u can try the alternati...

HD   1 year ago   •   92,004 views

by hackerajax

7:18

Hacking - Collecting Network Information - For Beginners

HD   1 year ago   •   12,370 views
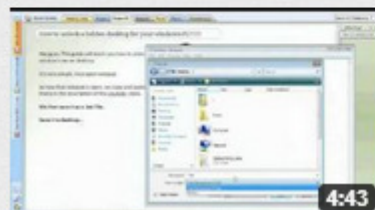
by Raventattoo

16:00

Introduction to Hacking

Info Level: **Beginner** Presenter: Eli the **Computer** Guy Date Created: ...

1 year ago   •   354,238 views

by elithecomputerguy

1:09:40

HACKING FOR BEGINNERS: How to unlock a secret PC wallpaper

You might have to be on an admin account to do this. Here is the code ...

1 year ago   •   1,210 views

by nothinglol420

4:43