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Bits & Bytes

An Initiative By

ITSA
Department of Information Technology

#Satyavachan

✅ Happiness   ✅ Optimism   ✅ Kindness

✅ Giving   ✅ Respect   ⭕ Ego

Whatever choice you make, makes you.

Staff Coordinators:
- Ms. Shraddha Sandimani
- Mrs. Mudra Doshi

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4 Cybersecurity Myths that You Should Know About

Even though there is increased concern regarding data security, some misconceptions and myths prevail. Organizations must ensure that they don't regard any misconceptions about Cybersecurity to appropriately safeguard their sensitive information against cyber-attacks or threats.

Myths about Cybersecurity

1. Cyber threats Don't Target Small Businesses

Often medium or small businesses might believe that their information is not of any value to cybercriminals and, thus, are saved from any data breaches. But this is not at all true. Cybercriminals might benefit more from hacking into a big corporation; however, they find it easier to hack into smaller businesses as they lack robust Cybersecurity. This allows the hacker to extract any information and can force small businesses to shut down.

2. Antivirus or Anti-Malware is Enough

Companies feel that inserting antivirus or anti-malware software is enough to protect against cyber-attacks. Even though having the two software is vital, hackers can find their way through these kinds of software easily. For more comprehensive data security, organizations need to include more complex Cybersecurity solutions. They should be able to detect any threats before the hackers infiltrate their systems.

3. Cyber attacks Can Only be External

Beliefs about threats arising only from external sources are a big misconception. It is reported that insider threat has increased from $11.45 million in 2020 to $15.38 million in 2022, which is a 34% jump. Anyone from contractors and employees to business partners can be responsible for cyber attacks internally. Therefore businesses should be mindful of who has access to the sensitive data and should track how the data is being used.

4. Cybersecurity Solutions are Expensive

2021 witnessed the biggest spike in a data breach in 17 years, valued at $4.24 million. This amount generated is barring the cost companies' face on the grounds of reputation and customer loss. Therefore making an investment in a robust Cybersecurity solution is vital for all organizations if they want to protect themselves from greater expenses incurred from data breaches.

Understanding the myths around Cybersecurity is quintessential for organizations of any size and industry. Cybercriminals attack all companies and if the business targeted does not have a robust cyber defense, then those companies will face a downfall.

Source:
https://gajshield.com/index.php/resources/gajshield-blogs/330-4-cybersecurity-myths-that-you-should-know-about

- Mr. Akshay Agrawal
(Assistant Professor)

Internet Of Things (IoT) — Trends

Trends in IoT

If we adopt IoT, it will improve digitization of our society and economy by connecting objects, people with each other via a connected or communication medium. If we consider about device-to-device interaction, IoT helps people to manage their daily lives with more control with efficient monitoring. Let's see the trends in IoT app development areas.
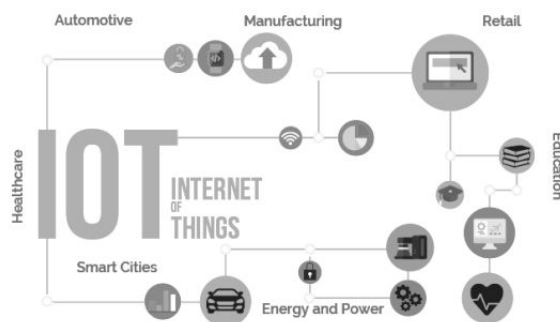
Wearable gadgets: Wearable devices have been a hot topic across the tech world since the release of smartwatches and smart glasses. Today there are many wearable gadgets on the market, from fitness trackers to GPS shoes.

Connected Car: This is a quite new concept and expected to come into the limelight slowly. Generally, app development for the automotive industry takes two to four years. Everyone from large-scale automobile companies to small-scale start-ups is working on connected car solutions. If BMW and Ford do not announce Internet-connected car solutions soon, the tech giants such as Google, Apple and Microsoft are set to develop and release the next generation of connected car solutions.

Smart Home: IoT provides us a space where we find comfort and can manage our routine tasks easily in our daily busy life. There are various popular devices for the smart home; include smart thermostat, connected lights, smart fridge, smart television, smart door lock etc.

Smart City: Smart city helps people to avoid the issues of traffic management, social security, environment monitoring , waste management, water distribution etc. Improved IoT apps will help resolve various issues related to traffic, noise pollution, air pollution, etc., and make cities safer.

Smart Grid: It is a vital niche of IoT. It provides information about consumers and electricity providers in an automated way. It always helps improve the efficiency, economics and electricity steadiness.

Source:https://medium.com/@arindey/internet-of-things-iot-security-privacy-applications-trends-3708953c6200

- Ms. SHRADDHA SANDIMANI
(Assistant Professor)

Cookies

Firstly, lets understand what are cookies?

Cookies are essentially information collectors and trackers in the form of small text files stored on your browser by the sites you visit. Some are useful. For example, a cookie saved on your browser makes it so you don't have to re-enter your log-in information every time you visit one of your favorite websites. Cookies can also remember your shopping preferences so that you get a personalized experience when you visit the website. Others, however, track how you use a website, how often you go there, your IP address, your phone number, what types of things you look at and buy, and other information you may not want to share.

Now that you have understood, lets see about giving them permissions!

Many companies have you click "yes" so that they're compliant with current privacy laws. This means that once you click, you've given the company permission to use your information as they see fit without the worry of legal backlash. Most of the time, cookies are no big deal. There are a few occasions, though, where you should decline cookies.

If the cookie-consent pop-up mentions third-party cookies, click "decline." Accepting gives the website the right to sell your browsing behavior to a data broker. The broker then combines your behavior on one website with information from other websites and builds an extremely detailed profile of you as a consumer. The broker then sells that profile to other third parties who want to market to people like you.

Some third-party cookies are even nefarious. You could become a victim of "cookie stealing" or "session hijacking." This is when a hacker gains access to a browser and mimics users to be able to steal cookies from that browser. This can put you at risk of identity theft if hackers manage to steal cookies that store your personal information or credit card information.

If you're worried that you might accidentally accept third-party cookies, there's an easy way to make things fool-proof. Go into your browser and choose to allow only required cookies or "first party" cookies. These cookies are the helpful ones mentioned earlier and are usually only used by the website you're visiting.

If you don't feel comfortable sharing the information you're using or accessing on a website with a stranger, don't use cookies on that site. The site would continue to load and function normally unlike the apps that don't work if you deny permission.

Source:https://www.facebook.com/100044285421464/posts/pfbid0n5fNobWngUeyciDzJfXFgGAU1aXmcYma2NcP7uZwY2KLT5f7nF9DG5KUMCt3Kq4Ul/

- Dr. Yogita Mane
(Head of Department)

Excel Shortcuts Quick Reference

WORKBOOK

Shortcut	Action
CTRL+O	Opens a workbook
CTRL+N	Create a new workbook
CTRL+P	Displays the print dialog box
CTRL+S	Save the workbook
CTRL+W	Closes the selected workbook
CTRL+F2	Displays print view
F9	Calculates all open workbooks
SHIFT+F9	Calculates the active worksheet
CTRL+F10	Maxmize / restore workbook
SHIFT+F11	Inserts a new worksheet
F12	Displays the Save As dialog box

FORMATTING

Shortcut	Action
CTRL+SHIFT+~	Applies general format
CTRL+SHIFT+$	Applies currency format with two decimal places
CTRL+SHIFT+%	Applies percentage format with no decimal places.
CTRL+SHIFT+#	Applies date format
CTRL+SHIFT+@	Applies time format
CTRL+SHIFT+!	Applies the Number format with two decimal places, thousands separator
CTRL+1	Displays the Format Cells box

GENERAL

Shortcut	Action
CTRL+~	Toggles values and formulas
SHIFT+F3	Insert Function dialog box
CTRL+F3	Name manager box
ALT+M+V	Evaluate formula box
CTRL+SHIFT+U	Expand /collapse of the formula bar
CTRL+F1	Displays or hides the Ribbon
CTRL+SHIFT+L	Applies / removes filter
ALT+A+Q	Advanced filter
ATL+T+O	Excel options

SELECTION

Shortcut	Action
CTRL+A	Selects the entire worksheet (Press 3 times)
F8	Toggles extend mode
CTRL+SPACEBAR	Selects an entire column
SHIFT+SPACEBAR	Selects an entire row

EDITING

Shortcut	Action
CTRL+SHIFT+:	Enters the current time
CTRL+;	Enters the current date
CTRL+C	Copies the selected cells
CTRL+D	Copies topmost cell of a range into the cells below
CTRL+R	Copies leftmost cell of a range into cells to right
CTRL+F	Find dialog box
CTRL+H+	Replace dialog box
CTRL+K	Edit hyperlink
CTRL+T	Create Table dialog box
CTRL+V	Paste
CTRL+ALT+V	Paste Special Dialog box
CTRL+X	Cuts the selected cells
CTRL+Z	Undoes last action
SHIFT+F2	Adds / edits comment
F4	Generates absolute and relative references
F7	Spell check
ALT+=	Autosum
ALT+F8	Opens Macro Dialog box
ALT+F11	Opens VB Editor
ALT+D+P	Opens pivot table wizard
ALT+A+M	Removes duplicates
ALT+A+E	Text to columns Wizard
ALT+ENTER	Enters a new line
ALT+D+L	Data validation

NAVIGATION

Shortcut	Action
TAB	Left cell to right cell
SHIFT+TAB	Right cell to left cell
CTRL+G or F5	Go To dialog box
CTRL+END	Moves to last used cell
CTRL+Home	Moves to the first used cell
ALT+PAGE DOWN	Moves one screen to the right in a worksheet.
CTRL+PAGE DOWN	Moves to the next sheet in a workbook
ALT+PAGE UP	Moves one screen to the left in a worksheet
CTRL+PAGE UP	Moves to the previous sheet in a workbook
CTRL+Arrow	Moves to the edge of the current data region

Excel CTRL+A to Z Shortcuts

CTRL Shortcut	Action
CTRL+A	Select the entire worksheet
CTRL+B	Apply or remove Bold formatting to font
CTRL+C	Copy
CTRL+D	Copy the contents and format of the topmost cell of a selected range into the cells below
CTRL+E	Flash Fill
CTRL+F	Find
CTRL+G	Go To
CTRL+H	Find and Replace
CTRL+I	Apply or remove Italics formatting to font
CTRL+J	Not assigned. Still available.
CTRL+K	Open the Insert hyperlink dialog
CTRL+L	Display the Create Table dialog (Alternative is CTRL+T)
CTRL+M	Not assigned. Still available.
CTRL+N	Create a new Workbook
CTRL+O	Display File Open dialog box
CTRL+P	Invokes Print
CTRL+Q	Display the Quick Analysis options for selected cells that contain data
CTRL+R	Copy the contents and format of the leftmost cell of a selected range into the cells to the right
CTRL+S	Save the workbook
CTRL+T	Display the Create Table dialog (Alternative is CTRL+L)
CTRL+U	Apply or remove Underline formatting to font
CTRL+V	Paste
CTRL+W	Redo the last action
CTRL+X	Cut
CTRL+Y	Repeat the last command or action
CTRL+Z	Undo the last action

Excel CTRL+0 to 9 Shortcuts

CTRL Shortcut	Action
CTRL+0	Hide the selected columns
CTRL+1	Open the Format Cells dialog
CTRL+2	Apply or remove Bold formatting to font (CTRL+B)
CTRL+3	Apply or remove Italics formatting to font (CTRL+I)
CTRL+4	Apply or remove Underline formatting to font (CTRL+U)
CTRL+5	Apply or remove strikethrough formatting to font
CTRL+6	Switch between hiding objects, displaying objects, and displaying placeholders for objects
CTRL+7	None
CTRL+8	Display or hide the outline symbols
CTRL+9	Hide the selected rows

Excel CTRL+F1 to F12 Shortcuts

CTRL Shortcut	Action
CTRL+F1	Displays or hides the ribbon
CTRL+F2	Displays the print preview area on the Print tab in the Backstage view
CTRL+F3	Opens Name manager
CTRL+F4	Closes the selected workbook window
CTRL+F5	Restores the window size of the selected workbook window
CTRL+F6	Switches between 2 Excel windows
CTRL+F7	Performs the Move command on the workbook window when it is not maximized. Use the arrow keys to move the window, and when finished press Enter, or Esc to cancel
CTRL+F8	Performs the Size command when a workbook is not maximized
CTRL+F9	Minimizes a workbook window to an icon
CTRL+F10	Maximizes or restores the selected workbook window
CTRL+F11	Insert a new sheet named Macro1,2....so on
CTRL+F12	Display File Open dialog box

- Dr. Yogita Mane
(Head of Department)

ACHIEVEMENTS

Congratulations

Dr. Yogita Mane

Ms. Mudra Doshi

Voluntarily contributed as a reviewer of papers for IEEE International Conference on Interdisciplinary Approaches in Technology and Management for Social Innovation (IATMSI-2022)

EVENT ORGANIZED

Women Development Cell is organising a short session on "Women's Hygiene"

Speaker : Ms. Vinita Rajendra
Date: 24th November 2022 , Time: 10:30-11:30 am

UPCOMING EVENTS

Best of Luck
for Exams

Scan for previous edition

You can send your articles to the following email id:
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