

Project IDCAP: Improve Digital Competence in Adult People

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How use my Smartphone

How to use digital technologies creatively





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Introduction

As one of the fastest-growing technology inventions in the world today is tablets and smartphones, the makers of these fast-growing smartphones claim that in the near future, this technology will replace our usual and integral assistants of the day - desktops and laptops. In doing this, I hope to tell as much as possible about the use of smartphones, tablets, and the benefits of having different brands of tablets and phones. Also, to tell about the integral part of smart devices - operating systems for mobile phones and tablets. In this ever-evolving world, where every second child has a reasonably priced smartphone, one should look at the capabilities and benefits of both tablets, smartphones, and hybrid tablets. Of course, if you already have a reasonably good smartphone or a powerful laptop and don't have a thousand or two thousand dollars to spend, you should still think about the need for a tablet in your life, but if you are a person constantly looking ahead and interested in technology for the sole purpose of understanding technological capabilities and the evolution of human science. Still, these devices are known as the future of laptops, and while for the time being, tablets are no different from powerful smartphones.

The aim is to explore smart technologies and their use.

Learning Outcomes - A person knows what a mobile phone, smartphone, tablet is, understands and is able to use smart technologies.

Learning objectives:

- Find out what a cell phone, smartphone and tablet are;
- Understand the difference between a mobile phone and a smartphone.



- Know how to use your smartphone and tablet;
- Understand what a virtual reality game is.

1. Smart technologies

Modern man is surrounded by information and communication technologies. Every day we surf the Internet, exchange information and communicate there. We also communicate with other people via text messaging, chat portals, taking pictures, filming images that impress us, recording the sounds we would like to hear, etc. It is communication technology without which no modern human being would survive. We are going to discuss how to use a smartphone and tablet.

2. Definitions

What is a Tablet PC?

A tablet is a combination of a smartphone (PDA) and a laptop. This is a mini computer for email checking, web browsing, reading, note taking, entertainment, navigation and more. Its main advantages are its convenient portability and easy web browsing. The device is ideal for anyone who wants a smartphone with a larger screen.

Smartphone

Smartphone - A mobile phone with an operating system fig. 2, which has advanced computer skills to process data and connect to various communication networks, is used not only for communication but also for entertainment, business, and information.

Mobile phone

Mobile phone - a low power radio transceiver that transmits and receives information by electromagnetic waves; phone.

Operating system

The main difference between a smartphone and an ordinary mobile phone is the operating system, which allows you to install additional applications that expand the capabilities of the smartphone.

The smartphone, like a PDA [1] or tablet, offers powerful technical capabilities than older mobile phones and an advanced operating system to perform many of the functions of a PC, handle large amounts of information, and enable multiple applications at the same time.

Program (Computer) - A sequence of instructions for a computer or interpreter.

A gallery is a place that can be found after you have taken a video and captured a video.

What is a photographic filter?

A photographic filter is simply an optical filter that operates on a beam of light passing through it. "Photographic" is not a term used to refer to any optical use of filters in photography, it is also referred to as a bus user.

A **home screen**, **homescreen**, or **start screen** is the main screen on a mobile operating system or computer program. Home screens are not identical because users rearrange icons as they please, and home screens often differ across mobile operating systems. Almost every smartphone has some form of home screen, which typically displays links to applications, settings, and notifications.

What is a computer screenshot and how is it done?



Screenshot or otherwise a copy of the monitor screen or part of it stored in a photo file is a useful feature worth learning in your daily work.

Why do I need screenshots? Let's say you are watching a movie on a computer and want to capture a fascinating scene so we can explore it later. Or maybe you're in a video conference that you paid for and want to remember the slide on your screen. Or maybe your computer crashes constantly and shows some error that is difficult to overwrite in a word processor due to the plethora of characters and strange sequences? You can take this image with just a few clicks and send it to your computer maintenance company or company. There are many different examples of how to use screenshots. How do I take a screenshot of my computer? Below are specific steps for the most popular operating systems.

How do I make a screenshot of a PC running Windows?

Windows 8

1. To save a full screen image to a separate file, type the following key combination: Windows key + PrtScn. Files are automatically saved to the Pictures / Screenshots directory.
2. To save a window for a specific program, type Alt + PrtScn.
3. To save the image without saving it in a separate file, simply press the PrtScn key. Later you will need to type Ctrl + V to upload it to Photoshop or another application. The screen image will appear in the application.

Windows 7

1. Just press the PrtScn key to save the full screen image to a separate file. You will need to open Paint and find Paste in it or type Ctrl + V after editing.

2. To save only the active window image for a particular application, type Alt + PrtScn. To save an image, follow the steps in the previous paragraph in Paint.

How do I take a screenshot of Apple Mac computers?

1. Use the key combination Command (⌘) + Shift + 3 to capture the full screen image.
2. Use the combination: Command (⌘) + Shift + 4 to save the selected part of the screen.
3. To save the entire image of a particular program window, select the desired program window with your mouse, type Command (⌘) + Shift + 4, and press the Spacebar key. The mouse pointer will turn into a small camera icon, click on the desired application window and you will have a separate image of it.

How do I take a screenshot on my Android smartphone?

The Android operating system (version 4.0 or later) has a "factory-installed" tool that can take a screenshot. All you have to do is press the Power and Volume Down buttons at the same time.

Some phones hold this combination for 1 second, others for 3 seconds. As soon as the screen is taken, you will hear a click sound from the camera. The picture is automatically saved in the photo directory.

[\[1\]](#) Personal Data Assistant

3. Phone/tablet preparation

How to turn phone/tablet on/off

- When the phone is off, press and hold the key on the right side of the phone to turn it on.
- To turn the screen on or off, also press the button on the right.

- To display the options menu, press and hold the right button on the side of the phone.
- To turn the phone off, press and hold the button on the right side of the phone to open the options menu and then touch Power off>OK.

4. How to personalise a phone

How to change the background on the screen

- Touch and hold an empty space on the screen of your phone.
- Touch Screen Background
- Select a background (to use your own image, tap My Photos; to use default image, tap it).
- Touch Set background at the top.
- Select where you want your background to appear.

5. How to get started

5.1. How to switch home pages

- Flick left and right across the screen to switch between Home screens.

5.2. How to run apps and switch between them

- In the Home screen, touch an application icon to open it.
- To switch to another application, touch the button at the bottom centre of the phone screen to return to the Home view, then touch the icon of the application you want to open.

5.3. How to increase or decrease the volume

Pressing the volume buttons without listening will change the media volume. To change the volume of other sounds, such as ringtones, follow these steps:

- Press the Volume button.
- Touch Settings on the right or - if you don't see Settings option, go to the steps for another version of Android.
- Slide the Volume switch to the desired level.
- Media volume: music, video games, other media.
- Ring volume: the volume of another person during the call.

- Ring volume: phone calls, messages.
- Signal volume

5.4. How to turn vibration on /off

- To make your device vibrate or ring when you receive a call or a message, follow these steps:
- Press the Volume button.
- On the right, an icon will appear above the slider. Touch it until you see the icon below (Vibrate/Mute).

Note : if the icon does not appear, go to the steps for an older version of Android.

- Optional: to turn the sound on or turn the vibration off, touch the icon until Ring appears.

Tip : to stop the call when it rings, press the volume key.

5.5. How to take a screenshot

- Take a screenshot if you want to share an exciting movie scene or boast about your breakthrough in the game.
- At the same time press the button on the right side of the phone and the mute button to capture the screen image. After, open the notification shade and touch to share the screenshot. Screenshots are saved in the screenshot album area of the Gallery.

6. Multimedia

6.1. Camera. Viewfinder



- Press the camera button.
- Tap this button to switch to rear or front camera.
- Press to set the flash mode.
- Touch the subject in the viewfinder to focus on the camera.
- Expand two fingers to zoom in, or pinch to zoom out.
- Touch a thumbnail to view photos.
- Touch the capture button to take a picture.
- Drag the slider to switch to photo mode.
- Drag the slider to switch to video mode.

6.2. Taking pictures

- Tap Camera, in the Home screen.

- Point the device at what you want to capture. The camera focuses automatically.
- Touch the Capture button to take a picture.

6.3. How to film

- Tap Camera, in the Home screen.
- Point the device at what you want to capture.
- Touch  to start recording.
- Touch  to stop recording.

7. Gallery

Gallery is a personal treasure trove of pleasant moments.

7.1. How to view photos and videos

Gallery photos and videos are saved in separate albums

- Touch Gallery, in the Home screen.
- Touch the album you want to view.
- Touch a photo or video to view it in full screen mode.

Note: when viewing a photo, pinch or expand two fingers to zoom in or out the photo.


7.2. How to edit a photo

- Touch Gallery in the Home screen.
- Touch the photo you want to edit.
- Touch the button that allows you to edit and you will be able to

-touch  to select filter

-touch  to rotate or crop the photo

-touch  to lighten or darken the photo

-touch  to add a frame to the photo

- Touch 

8. Creative photo editing with Snapseed Application

Snapseed is one of the Google's most popular, free photo editor for smart devices.

- The App can be downloaded at <https://play.google.com/> (Android smartphones) or <https://apps.apple.com/> (Apple iPhone smartphones).
- To get started with Snapseed and edit your photo, you need to start the App and press OPEN in the open window, or click anywhere in the program window. Then you will be able to select any of your taken photos from the Gallery.
- In the LOOKS section, you can instantly select the right image filter (Portrait, Smooth, Pop, Accentuate, Faded glow, Morning, Bright, Fine Art, Push, Structure Silhouette).
- To confirm the filter, press the V button; to go back press X. The TOOLS section contains 28 tools.
 - Tune Image - here you can adjust the colors automatically or manually, with sensitive and precise sliders (Adjust button). Sliders and their strength can be changed by sliding your finger up or down and right-left.
 - Details – surface structure is highlighted in the pictures.
 - Curves – brightness levels are controlled in the pictures.
 - White balance – the colors are adjusted to a more natural look (if the picture is too “warm” (yellowish) or too “cold” (bluish)).
 - Crop – crop images or pictures to the size you want.
 - Rotate – rotate picture 90°. The tool is also used to straighten the curve of the horizon line (by sliding your finger on photo or video).
 - Perspective – connecting tilted lines or verifying horizon and building geometry.
 - xpannd – expands the space behind the edited photo. To fill the new space, an image is cloned from the edges of the existing photo.
 - Selective – control point technology. Up to 8 pixels can be placed, and Brightness, Contrast Saturation, Structure can be enhanced in the image.
 - Brush – optionally retouch color saturation, exposure, brightness or heat (Dodge & Burn, Exposure, Temperature, Saturation).

- Healing – the tool removes unwanted object from the photo (with your finger). Instead of the object, location is filled with the surrounding image.
- HDR scape – provides an impressive look to images.
- Glamour Glow – gives images a glow that will fit perfectly into portrait photography. Selects one of 5 effects, which can also be adjusted by sliding your finger left and right.
- Tonal Contrast – optionally highlights details in shadows, hues, lights.
- Drama – impresses images dramatically (6 styles).
- Vintage – color photo styles from the fifties, sixties or seventies (12 styles).
- Grainy film – adds natural grain.
- Retrolux – provides retro look with light streaks, scratches, and bar styles.
- Grunge – creates an impressive look using expressive styles and texture overlays.
- Black&White – classic black&white look.
- Noir- black and white stripe with natural grain and washed-out effect.
- Portrait – facial enhancement – illuminates the face and softens skin tones.
- Head position - you can slightly adjust the face position in portraits (by sliding your finger from the face to the desired position).
- Lens blur – gives images a beautiful bokeh effect, with background brightness blurring behind the selected object. Perfect for portraits.
- Vignette – a slight darkening or lightening of all corners.
- Double exposure – two photos can be stitched together (you will need to add a second, additional picture by pressing the Add button).
- Text – adds stylized or plain text. The text can be edited and moved to the desired location with your finger.
- Frames – adds adjustable size frames.

Reminder: almost all tools have sliders to change their strength (by sliding your finger up and down and left to right).

- After making all desired edits to the photo, press EXPORT button.
- You will see 4 choices:
 - Share – share the image instantly via the app you are using: Facebook, Messenger, Viber, Gmail or more.
 - Save – saves a copy of the edited image and adjusts the size and quality as is set in the Settings menú ítem.

- Export – saves a copy of the edited photo in the gallery.
- Export as – saves a copy of the edited photo to a selected folder in your gadget.

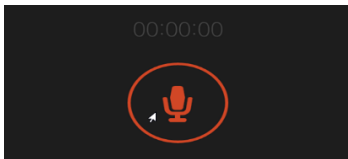
9. Sound Recording

How to record audio

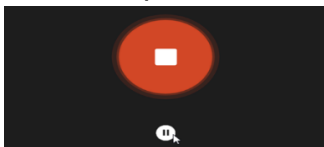
Audio recorder – an app that can records sounds by creating up to 3 hours of audio files. It can be used together with other apps that allow you to record audio and continue working on your gadget.

How to record?

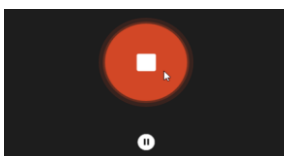
- Press the audio record button
- To start recording, tap or click the round button with the center microphone. This is the record button.



- To pause recording, tap or click Pause.



- To resume the paused recording, tap again or click Pause.
- To save a recording, tap or click Stop. The entry will appear in the list of entries.



Note: the next time you tap or click Save, a new recording process will begin.

Virtual reality game

What is a Pokémon Go?

Pokémon Go is a 2016 augmented reality (AR) mobile game developed and published by Niantic in collaboration with The Pokémon Company for iOS and Android devices. A part of the Pokémon franchise, the game is the result of a collaboration between Niantic, Nintendo and The Pokémon Company. It uses the mobile device GPS to locate, capture, battle, and train virtual creatures, called Pokémon, which appear as if they are in the player's real-world location. The game is free to play; it uses a freemium business model and supports in-app purchases for additional in-game items. The game launched with around 150 species of Pokémon, which had increased to around 500 by 2019.

This game is praised by some medics for its positive impact on players' physical and mental health. At the same time, there have been controversies over gaming accidents and interference caused by the proliferation of players in some public places.

In our secular age, it has become customary to see the world in terms of categories of cause and effect. We are no longer so excited about the greatness of this world. We think we are just tiny screws in a big causal mechanism. We are no longer looking for meaning, but are trying to create it ourselves.

But suddenly a game based on Japanese mythology is entering our naturalistic age. The world of Pokémon is a world full of kami who resemble the ancient Greek gods. These creatures live in trees, rivers, rocks. This oriental world of Pokémon is both strange and familiar. In part, the attractiveness of pokemons can be attributed to our childhood fascination with magical tales, from which we have never fully grown.



The attractiveness of Pokémon GO is based on our deep desire for unity in this divided world. While playing, at least for a while, we hang out with others, share the same space with them while playing the same game.

Likewise, Pokémon GO relies on a longing within us for more than just the rational society of our age. At least we feel the magic of ancient mythologies. Our heart desires for something more than this visible physical world.

Of course, this is just a game whose attractiveness and charm will pass with time. Such myths do not reflect the true spiritual reality we know from the Bible. These games offer some enjoyable moments, but they do not promise our future. No game can provide lasting unity with others or eternal meaning.



Summary

By using described techniques in the module you can see that nowadays smart technologies, i.e. smartphones, tablets, develop very quickly, and people can't adapt to them. Their appearance, functions and capabilities are changing. Now you can not only capture the visible image as it is, but you can use the photo filter to highlight, darken, and etc. In addition to capturing the image you want, you can also record audio for later playback. Also, If you find something you haven't seen in your smartphone or tablet screen before, you can easily take a picture of your screen and show it later to your friends. Smart devices have never before been able to move to virtual space, where you can see objects that do not exist in real space, and interact with other actors in virtual space.

In conclusion, people of all ages can catch up with the rapidly expanding technology change and its ability to apply it in real life. Everything depends on the desire - if there is a lot, the goal will be achieved under any circumstances. We wish you every success with smart technology!

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