# This page describes the ship game [1]

It is similar to the traditional game of "Hangman".

# Making your own games

The aim of this document is to enable you to learn how the game works so you can make your own games. Don't worry, you don't need to know all the programming details to start off with. You could, for example, change the ship picture to something different. The ship pictures used are:

- ship0.png
- ship0.png
- ship1.png
- ship2.png
- ship3.png
- ship4.png
- ship5.png
- ship6.png
- ship7.png

So if you replace the references in the program code to ship0.png with a different picture you will change the game a bit. You can learn about how different parts of the program works by experimenting and making your own similar games. Of course we would like you to contribute them so everyone else can use them.

## What you need to know to get started

(function(i,s,o,g,r,a,m){i['GoogleAnalyticsObject']=r;i[r]=i[r]|function(){ (i[r].q=i[r].q||[]).push(arguments)},i[r].l=1\*new Date();a=s.createElement(o), m=s.getElementsByTagName(o)[0];a.async=1;a.src=g;m.parentNode.insertBagee1afn20 })(window,document,'script','//www.google-analytics.com/analytics.js','ga'); ga('create', 'UA-46896377-2', 'auto'); ga('send', 'pageview');



The game **Ship** uses **Javascript** and standard **HTML**. Javascript is a computer programming language used by web browsers to make pages that are described by HTML tags to be interactive.

In this game, the players have to guess a word by choosing a letter at a time. Underscore characters display the number of the letters in the word. The player uses a mouse to click on the letters of the alphabet below the word being guessed.

## If the player's guess is accurate, the correct letter is displayed.

## If the player's guess is inaccurate, the ship sinks a little.

After seven attempts, the ship will sink completely and the player will see a notification announcing that they were unsuccessful in guessing the word. (The number of guess attempts remaining is displayed in the game by a text "**Number of Attempts**").

If the player succeeds, the table will display a message indicating that the player has been successful. The time it took the player to guess the word correctly is displayed and a message asking if th player wants to repeat the game.

The player can use a help feature (the "**Help**" button), which describes the word being guessed. The game uses a database of words related to computer technology. Anothr simple way to change the game would be to change the words to a different topic. For example a game where all the words are capital cities or words related to biology.

A "**Teachers Guide**" button is the link to a brief description of the game and its purpose in supporting the **Ingot** certificates.

# So where is the program code?

Javascript runs in a web page so click <u>here</u> [2] to call up the Ship game in your browser.

(function(i,s,o,g,r,a,m){i['GoogleAnalyticsObject']=r;i[r]=i[r]||function(){ (i[r].q=i[r].q||[]).push(arguments)},i[r].l=1\*new Date();a=s.createElement(o), m=s.getElementsByTagName(o)[0];a.async=1;a.src=g;m.parentNode.insertBagee2;afm20 })(window,document,'script','//www.google-analytics.com/analytics.js','ga'); ga('create', 'UA-46896377-2', 'auto'); ga('send', 'pageview');

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Under view you will find a menu item to look at the source code for your page. It might be called something a little different in different browsers, the example shown is Firefox.

Right-clicking the mouse on the <u>link</u> [2] to the page will bring up a menu and the item "**View Source**" must be selected (the text can differ slightly according to the browser used; the text "**View Source**" refers to the Internet Explorer browser; the Mozilla Firefox uses the text "**View Page Source**").

The text is marked using standard **Windows OS** commands (e.g. the keyboard shortcut **CTRL+A**) and copied into the clipboard (e.g. the keyboard shortcut **CTRL+C**). Any text editor capable of processing the plain text is opened (e.g. the program **Notepad**, which is part of the Windows OS) and the text is pasted into it from the clipboard (e.g. the keyboard shortcut **CTRL+V**).

The text in the word editor is saved into a file. The file can have any name but must have an extension of "**html**" or "**htm**". HTM is the standard extension for files to be opened with an internet web browser. Web browsers simply convert the content of an HTML file to something we can see in a web page. As long as your browser knows where to find the HTML file it can display it as a page. The web address or URL tells the browser where to find the file. This is usually somewhere on a server on the internet but it can just be on your local hard drive.

Another essential file is "**wordlist.js**", which contains a database of the words the user has to guess and the help text. The file can be downloaded by deleting the "**ship.htm**" in the browser address bar and replacing it with "**wordlist.js**". The browser then looks for the file and because it is not HTML it will assume you want to download it.

After pressing the key "**Enter**" on the keyboard, a dialog box will prompt you to **save a file**. The file must be saved under the **same name** and extension and into the **same directory** containing the

(function(i,s,o,g,r,a,m){i['GoogleAnalyticsObject']=r;i[r]=i[r]||function(){ (i[r].q=i[r].q||[]).push(arguments)},i[r].l=1\*new Date();a=s.createElement(o), m=s.getElementsByTagName(o)[0];a.async=1;a.src=g;m.parentNode.insertBegee3afn30 })(window,document,'script','//www.google-analytics.com/analytics.js','ga'); ga('create', 'UA-46896377-2', 'auto'); ga('send', 'pageview'); previous file. This is so that the code in the Javascript matches the names and places correctly.

Images are the last essential part of the game.

The list of images is as follows:

ship0.png

-->

- ship0.png
- ship1.png
- ship2.png
- ship3.png
- ship4.png
- ship5.png
- ship6.png

ship7.png

(these are the images of each step displaying the sinking ship)

#### pozadi.jpg

(this image is the background template)

The images can be downloaded in a similar manner as the "**wordlist.js**" file, but must be saved in the subdirectory named "**images**", which must be created.

This is again so that the names in the code match the places where the information is held.

To check every thing works try it out by double clicking on the file "**ship.htm**" file.

## Changing the Words in the game

The file "**wordlist.js**" contains the words we need for the game. It is saved in the variable called "**Wordlist**" in the Javascript program. A variable is a store for some information that can change. In this case the wordlist can be varied to make different games to help learn different sets of words. The words must always be separated by a space and the whole list must be in quotation marks.

#### (example: WordList="antivirus audiocity")

So try making a game with words that are related to science or a game with words related to maths or if you are really ambitious, words from a different language.

# **Changing images**

The pictures used in the game can be replaced with your own. The game background can be modified and the individual stages of the sinking ship as well. You could have a different type of ship, for example.

Here are some rules that must be obeyed!

(function(i,s,o,g,r,a,m){i['GoogleAnalyticsObject']=r;i[r]=i[r]||function(){ (i[r].q=i[r].q||[]).push(arguments)},i[r].l=1\*new Date();a=s.createElement(o), m=s.getElementsByTagName(o)[0];a.async=1;a.src=g;m.parentNode.insertBagec4;afn]0 })(window,document,'script','//www.google-analytics.com/analytics.js','ga'); ga('create', 'UA-46896377-2', 'auto'); ga('send', 'pageview');

- the replacement image files must have the identical **name** and **extension**
- the images "**ship0.png**" to "**ship7.png**"must have a transparent background. This is why .png images are used. .png files can have transparency (some old web browsers might not show this). .jpg files don't have transparency but they can be compressed more to save space and enable them to load quicker.
- the game background is only a template, which consists of its repeated parts
- the new images must have the identical size in pixels to the originalif th sinking is to work properly

## More advanced changes!

The changes above do not require any knowledge of the Javascript programming language. Wit even a little knowledge you can do quite a lot more and you don't need to learn everything before being able to do useful things.

# Names of images, files and places where they are stored

The program code in the file ship.htm contains statements that use the names of files and the places they are stored. You can find them by opening the file ship.htm in a text editor and searching for the word. Programmers call words and similar series of letters and numbers, strings so you might say search for a string as it might be more than one word or just a group of letters.

The name of the background image used in the ship puzzle is given in the following HTML command:

<BODY bgcolor=#00ffff background="images/pozadi.jpg

See if you can find this string in the file.

-->

If you wanted to use a different name for your background image you would have to search for all the times pozadi.jpg occurs in the file ship.htm and replace it with the new name. This is quick and easy in a text editor. Check that the string pozadi only occurs once in the file.

So to change the background image you can change the file pozadi.jpg in the directory images to say a file called "Sailing Boat.jpg and change the line of code in the ship.htm from background="images/pozadi.jpg" to background="images/Sailing Boat.jpg". Save your changes and you should have an identical game with a new background.

# (Hint: Always keep a copy of the original file in case you make a change and something unexpected happens!)

The names of the sinking ship images are stored in a special type of variable container, an Array. An array is a list of items and the code for it in Javascript is Array(N) where N is the number of itms in the list. Since the list starts at 0 and goes 0, 1, 2, 3, Array (4) has 4 spaces in the list Array(0), Array(1), Array(2) and Array(3)

In our "Ship" Javascript the Array to store the list of picture images is Array (8) because there are 8 images of the ship sinking.

Try searching your file for Array (8)

(function(i,s,o,g,r,a,m){i['GoogleAnalyticsObject']=r;i[r]=i[r]|function(){ (i[r].q=i[r].q||[]).push(arguments)},i[r].l=1\*new Date();a=s.createElement(o), m=s.getElementsByTagName(o)[0];a.async=1;a.src=g;m.parentNode.insert**Bage**包afn20 })(window,document,'script','//www.google-analytics.com/analytics.js','ga'); ga('create', 'UA-46896377-2', 'auto'); ga('send', 'pageview'); You should find it as part of the following line of code

Pic = new Array(0);

-->

This is telling the program we want it to set up a new array called Pic with 8 spaces in the list. ( 0 = --- > 7)

So, the array Pic will simply be a set of spaces somewhere in the computer's memory ready to store 8 pictures. At this point the program is just making the links to the pictures so it can find them and use them. The pictures could be of anything at all but since this game is about a sinking ship the pictures used are those of a ship in 8 different positions of sinking.

## Some programming

If we wanted to change the number of images, for example, to give more attemps and make the ship sink more gradually, things get a bit more interesting. We need a way of telling the web page to take a number of images fom the image file and display them on the background each time the player asks for another letter.

The program code in the next two lines is called a loop and it is used for doing tasks that repeat.

for (n=0; n<0; n++)

It is saying start a counter at 0. (n=0)

Next do the instructions in the  $\{ \}$  using the current value of n and then check to see if n is smaller than 8 and if so make it one bigger. Do the instructions in  $\{ \}$  using the current value of n which is now 1 and carry on repeating this until n gets to 8.

The part of the statement in the { } Pic[n].src ="images/ship"+n+".png"; is telling the web page to go to the directory images and get the file shipn.png. shipn.png will be ship0.png, ship1.png, etc as th program goes round the loop. The first part of the statement is storing each image in the array ready for use.

To change the number of images we would have to change the number 8 in the Array and then also in the program.

## **Comments in the program**

As mentioned earlier, the game is written using the Javascript and HTML commands. Brief help descriptions of the functions and elements, and the descriptions of the variables are stated directly in the code (in the comment lines). In order to understand the function, basic knowledge of the Javascript and HTML programming is necessary.

(example:

(function(i,s,o,g,r,a,m){i['GoogleAnalyticsObject']=r;i[r]=i[r]|function(){ (i[r].q=i[r].q||[]).push(arguments)},i[r].l=1\*new Date();a=s.createElement(o), m=s.getElementsByTagName(o)[0];a.async=1;a.src=g;m.parentNode.insertBagec@afn20 })(window,document,'script','//www.google-analytics.com/analytics.js','ga'); ga('create', 'UA-46896377-2', 'auto'); ga('send', 'pageview'); On the line 9 in the "**ship.htm**" is the following command:

cscript language="lawsScript" src="wordlist.js" type="text/javascript"></script>

-->

)

The command contains instructions and procedures of "**wordlist.js**" used for initialization of the "**ship.htm**" file.

More experienced programmers can use a different file name and they must change it in this command.

The following procedure monitors the events called by pressing the keyboard keys:

cscript for=document event="onkeydown()" language="[Script">

Event Keydown return keycode

n - start initial variable for cycle

Over - true if game is over

The following procedure provides recognition of the correct letter and its clicking in the ASCII table:

The following list contains the variables and the loop that will read the images into the field:

(function(i,s,o,g,r,a,m){i['GoogleAnalyticsObject']=r;i[r]=i[r]||function(){ (i[r].q=i[r].q||[]).push(arguments)},i[r].l=1\*new Date();a=s.createElement(o), m=s.getElementsByTagName(o)[0];a.async=1;a.src=g;m.parentNode.insertBagee(afn)0 })(window,document,'script','//www.google-analytics.com/analytics.js','ga'); ga('create', 'UA-46896377-2', 'auto'); ga('send', 'pageview');

ii - start initial variable for cycle

(var 6.))

j - variable displaying letters in cycle (A-Z is charcode between 65 - 90)

wordlist - variable in file wordlist.js containing list of words

("Do you want to give up the current game?"))

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The following function "**Init**" configures the initial variables, initializes the game, and randomly selects the word to be guesses:

(function(i,s,o,g,r,a,m){i['GoogleAnalyticsObject']=r;i[r]=i[r]|function(){ (i[r].q=i[r].q||[]).push(arguments)},i[r].l=1\*new Date();a=s.createElement(o), m=s.getElementsByTagName(o)[0];a.async=1;a.src=g;m.parentNode.insert**股间**全。3所90 })(window,document,'script','//www.google-analytics.com/analytics.js','ga'); ga('create', 'UA-46896377-2', 'auto'); ga('send', 'pageview');

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//action after click on any button

ii - start initial variable for cycle

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- variable displaying actual result in button Tword of guess word

:)>=0) return;

gth; 8++)

else sa + mi\_it;

The following function "**Click**" provides recognition of the letter being pressed, it displays the letter if contained in the word, and it displays the necessary results if the word is guessed correctly or the number of attempts is exhausted:

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The following HTML code displays the own game elements and graphics and configures the events during the mouse clicks:

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--> rrc="images/ship0.gif" border=0> name="8" value="8" onClick="Click(8")" width=20 style= name="D" value="D" onClick="Click!"D'/" width=20 style="width:20"> n" name="E" value="E" onClick="Click("E")" width=20 style="width:20"> name="7" value="7" onClick="Click("7")" width=20 style= name="H" value="H" onClick="Click('H')" width=20 style="width:20"> me="1" value="1" onClick="Click(1")" width=20 style=

(function(i,s,o,g,r,a,m){i['GoogleAnalyticsObject']=r;i[r]=i[r]||function(){ (i[r].q=i[r].q||[]).push(arguments)},i[r].l=1\*new Date();a=s.createElement(o), m=s.getElementsByTagName(o)[0];a.async=1;a.src=g;m.parentNode.insertBetentBath () })(window,document,'script','//www.google-analytics.com/analytics.js','ga'); ga('create', 'UA-46896377-2', 'auto'); ga('send', 'pageview');

--> "button" name="M" value="M" onClick="Click!"M1" width=20 style="width:20"> ion" name="N" value="N" orClick="Click(W)" width=20 style="width:20"> on" name="0" value="0" onClick="Click("0")" width=20 style="width:20"><) "button" name="P" value="P" onClick="Click"P1" width=20 style="width:20"><.tid><tid> button" name="Q" value="Q" onClick="Click("Q")" width=20 style="width:20"> ton" name="R" value="R" onClick="Click("R)" width=20 style="width:20">-"button" name="5" value="5" onClick="Click("5")" width=20 style="width:20"> </d> ton' name="T" value="T" onClick="Click/T1" width=20 style="width:20"> button" name="W" value="W" onClick="Click(W)" width=25 style="width:20"> ="button" name="Y" value="Y" onClick="Click("Y")" width=20 style="width:20"> "button" name="Z" value="Z" onClick="Click('Z')" width=20 style="width:20">

### The following code calls the initialization function of the game:

age="javaScript">

(function(i,s,o,g,r,a,m){i['GoogleAnalyticsObject']=r;i[r]=i[r]||function(){ (i[r].q=i[r].q||[]).push(arguments)},i[r].l=1\*new Date();a=s.createElement(o), m=s.getElementsByTagName(o)[0];a.async=1;a.src=g;m.parentNode.insertBoort4(a)fn?)0 })(window,document,'script','//www.google-analytics.com/analytics.js','ga'); ga('create', 'UA-46896377-2', 'auto'); ga('send', 'pageview'); -->

el\_word - displayed word

case "ANTIVIRUS":

Variable Wordlist in file **wordlist.js** contains list of guessed words.

Function Disphelp in file **wordlist.js** displays window with help text, which descript guessed word.

(function(i,s,o,g,r,a,m){i['GoogleAnalyticsObject']=r;i[r]=i[r]||function(){ (i[r].q=i[r].q||[]).push(arguments)},i[r].l=1\*new Date();a=s.createElement(o), m=s.getElementsByTagName(o)[0];a.async=1;a.src=g;m.parentNode.insertBoor的) })(window,document,'script','//www.google-analytics.com/analytics.js','ga'); ga('create', 'UA-46896377-2', 'auto'); ga('send', 'pageview');

platform, available for Windows, Mac OS X, Linux and BSD.

editor and recording application. The application is free, open source and cros

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--> a device for recording (storing) informati that can translate the motion and position of a user's fingers to a relative pr t two axes-like an upside-down mouse with an exposed prot

#### Source URL: https://theingots.org/community/puzzles

### Links

[1] http://ingotgames.org/ship/en/ship.htm

[2] http://www.euro-face.cz/javascript/ship/ship.htm

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