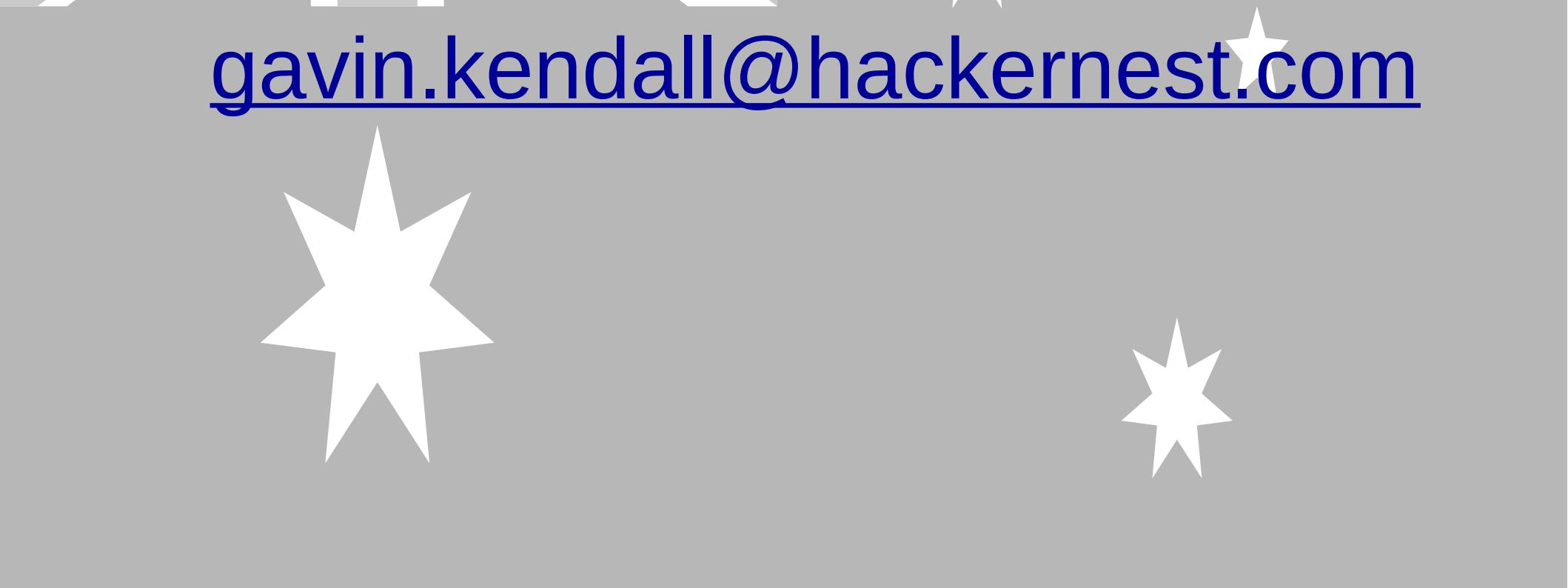


Gavin Kendall

gavin.kendall@hackernest.com



AUSTRIA EH?



LET'S PUT ANOTHER SHRIMP ON THE BARBIE

C# in Linux

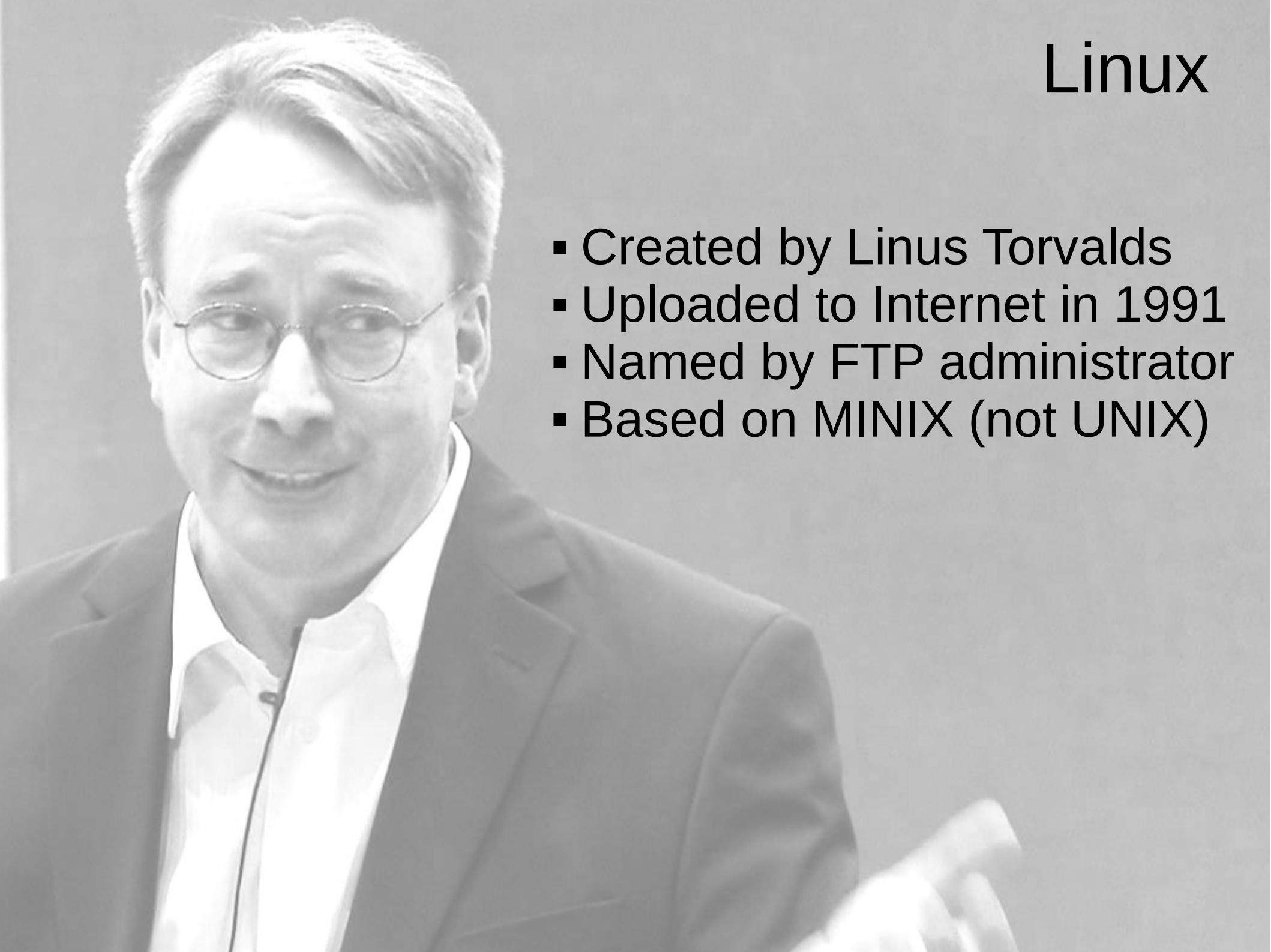
So... do you ...
like penguins?



C#



- Created by Anders Hejlsberg
- Development began in 1999 as “Cool”
- The mutant love child of C++ and Java

A black and white photograph of Linus Torvalds, a middle-aged man with light-colored hair and glasses, wearing a dark suit and white shirt. He is smiling slightly and looking towards the camera.

Linux

- Created by Linus Torvalds
- Uploaded to Internet in 1991
- Named by FTP administrator
- Based on MINIX (not UNIX)

Linux

LINUX 0.12 BOOT DISK /dev/hd4

LINUX 0.12 ROOT DISK

Root

(an early version of Linux distributed on 5.25-inch floppy disks)

Linux

It's FREE as in free beer
(and free speech)!

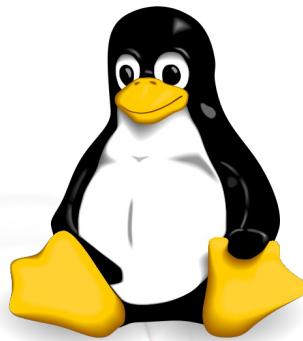


Linux

You don't need to be a nerd to use Linux (but it's okay if you are)!



What You'll Need



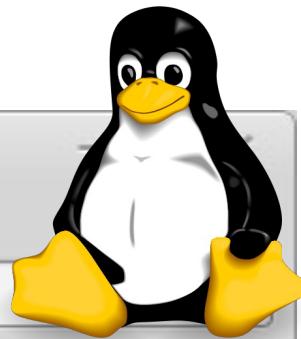
- Linux “distro” - here are just a few ...
 - 1) Debian
 - 2) Fedora
 - 3) Gentoo
 - 4) Mint
 - 5) Slackware
 - 6) Ubuntu
- Mono Develop (<http://www.monodevelop.com/>)



Software Manager

File Edit View Help

Categories > Programming > monodevelop



monodevelop

Development environment for gnome

Score:



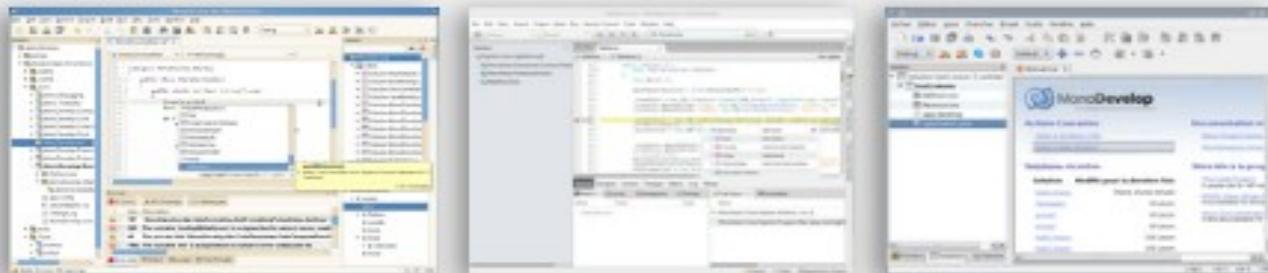
109

84 reviews



Installed

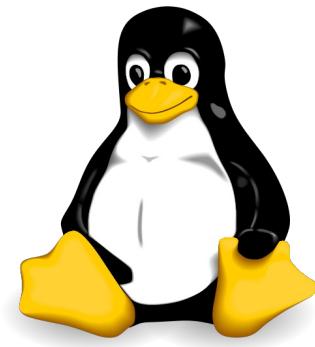
Remove



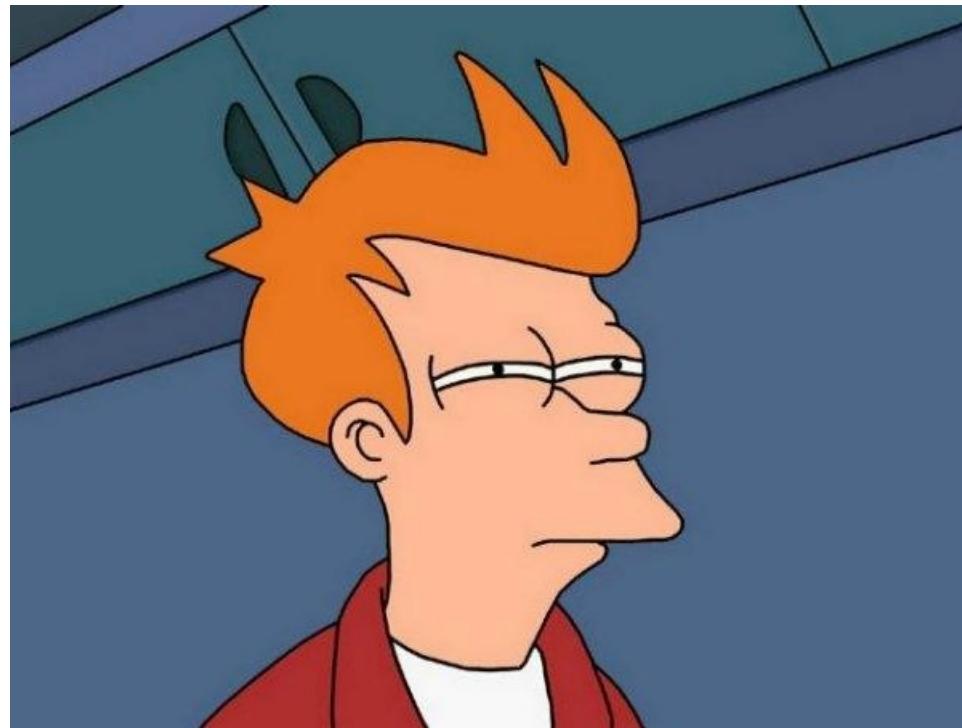
MonoDevelop is a GNOME IDE primarily designed for C# and other CLI (.NET) languages. It is the unbranded version of Xamarin Studio.

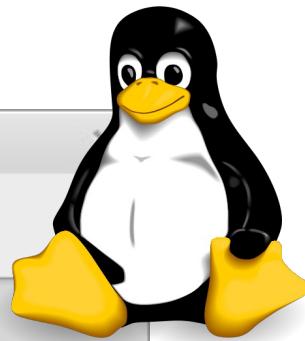


No ongoing actions



Getting into Mono for the first time ...





Preferences

- Markers and Rulers
- Behavior
- Code Completion
- Syntax Highlighting
- Code Templates
- Source Analysis
 - C#
 - XML Schemas
- Source Code
 - .NET Naming Policies
 - Code Formatting
 - XML document
 - Text file
 - C# source code
 - Standard Header
 - Name Conventions
- NuGet
 - General
 - Sources
- Other

C# source code

Policy: Microsoft Visual Studio

Text Style

C# Format

Edit

Preview:

```
using System;

namespace Example
{
    public class Test
    {
        public static void Main(string[] args)
        {
            for (int i = 0; i < 10; i++)
            {
                Console.WriteLine("{0}: Test", i);
            }
        }
    }
}
```

Cancel

OK

Debug

Default

MonoDevelop

Press 'Control+, to



Solution

- helloworld
- helloworld
- helloworld
- Properties
- Log.cs
- Program.cs

Program.cs

```
13
14     /// <summary>
15     /// The entry point of the program, where the program control starts and ends.
16     /// </summary>
17     /// <param name="args">The command-line arguments.</param>
18     public static void Main (string[] args)
19     {
20         try {
21             ArrayList catCollection = new ArrayList ();
22
23             const int NUM_OF_CATS = 5;
24             const string CAT_NAME = "CLAUS";
25             const string FILE_PATH = "/home/gavin/cats.txt";
```

MonoDevelop External Console

```
Hello World! I have 5 cats! And they're all named CLAUS
CLAUS1 is 2 years old!
CLAUS2 is 3 years old!
CLAUS3 is 4 years old!
CLAUS4 is 5 years old!
CLAUS5 is 6 years old!
```

Press any key to continue...■

```
e {0} cats! And they're all named {1}
{
+ 1).ToString (), i + 1 * 2);
is " + myCat.Age.ToString () + " years
```

```
33
34         catCollection.Add (myCat);
35
36         WriteToFile (FILE_PATH, catCollection);
37     } catch (Exception ex) {
38         Log.WriteLine (ex.ToString ());
39     }
40 }
```

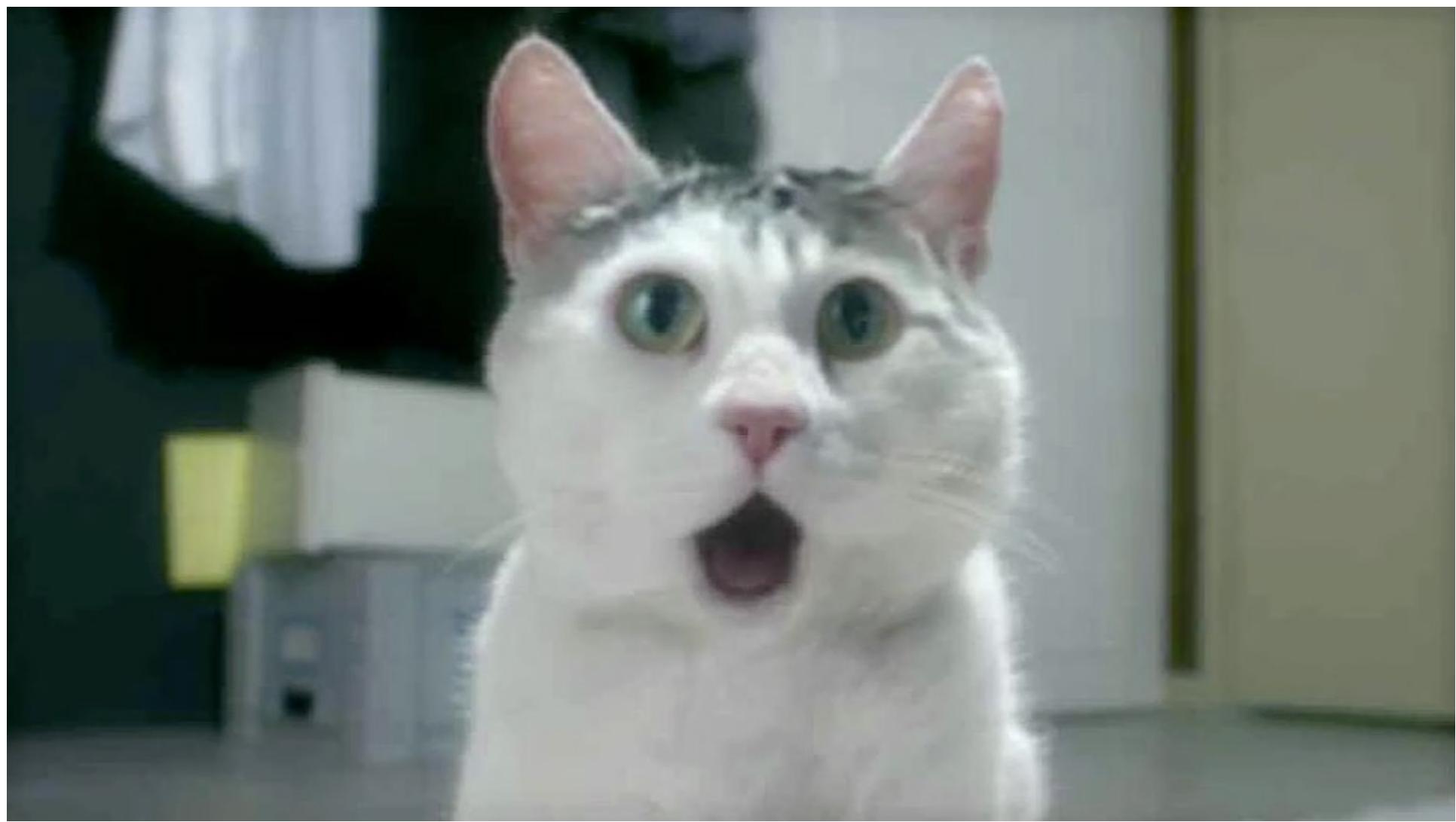
Watch

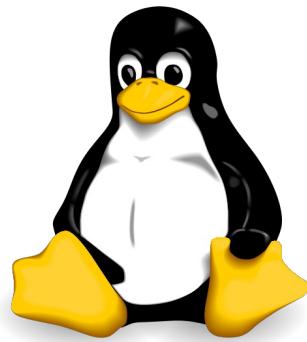
Breakpoints

Errors

Tasks

Application Output





New Solution

- Recent
- ▶ C
- ▼ C#
 - ASP.NET
- IL
- Other
- VBNET

- Empty ASP.NET Project C#
- ASP.NET MVC Project C#
- ASP.NET MVC Project with Unit Tests C#
- ASP.NET MVC Razor Project C#
- ASP.NET MVC Razor Project with Unit Tests C#
- ASP.NET Project C#

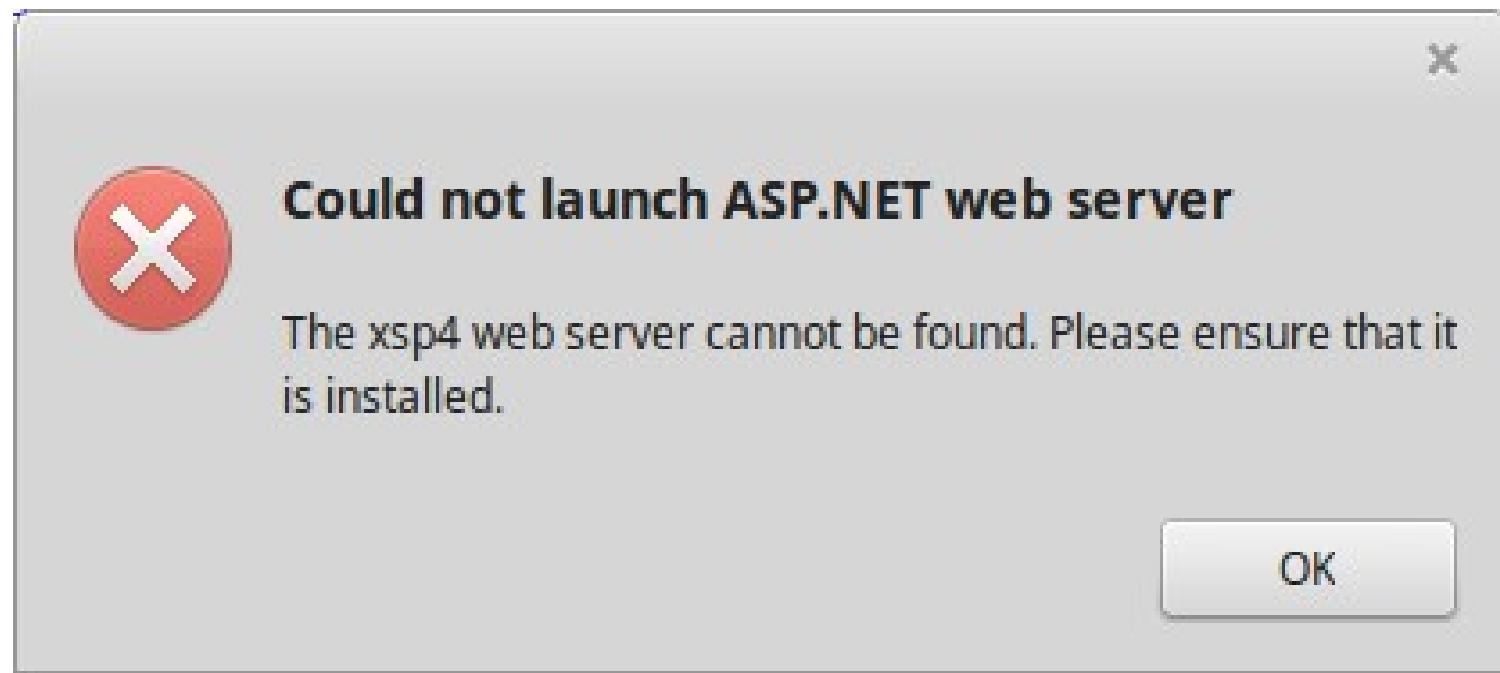
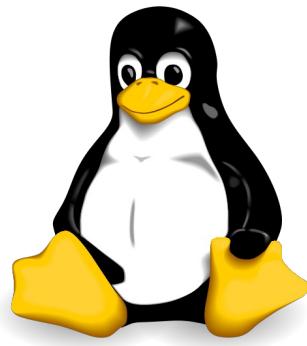
ASP.NET Project
Creates a new ASP.NET Web Application project.

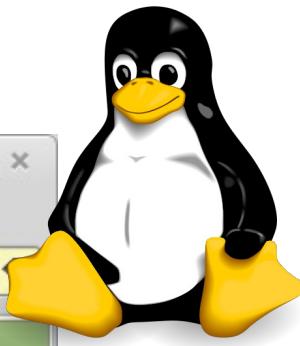
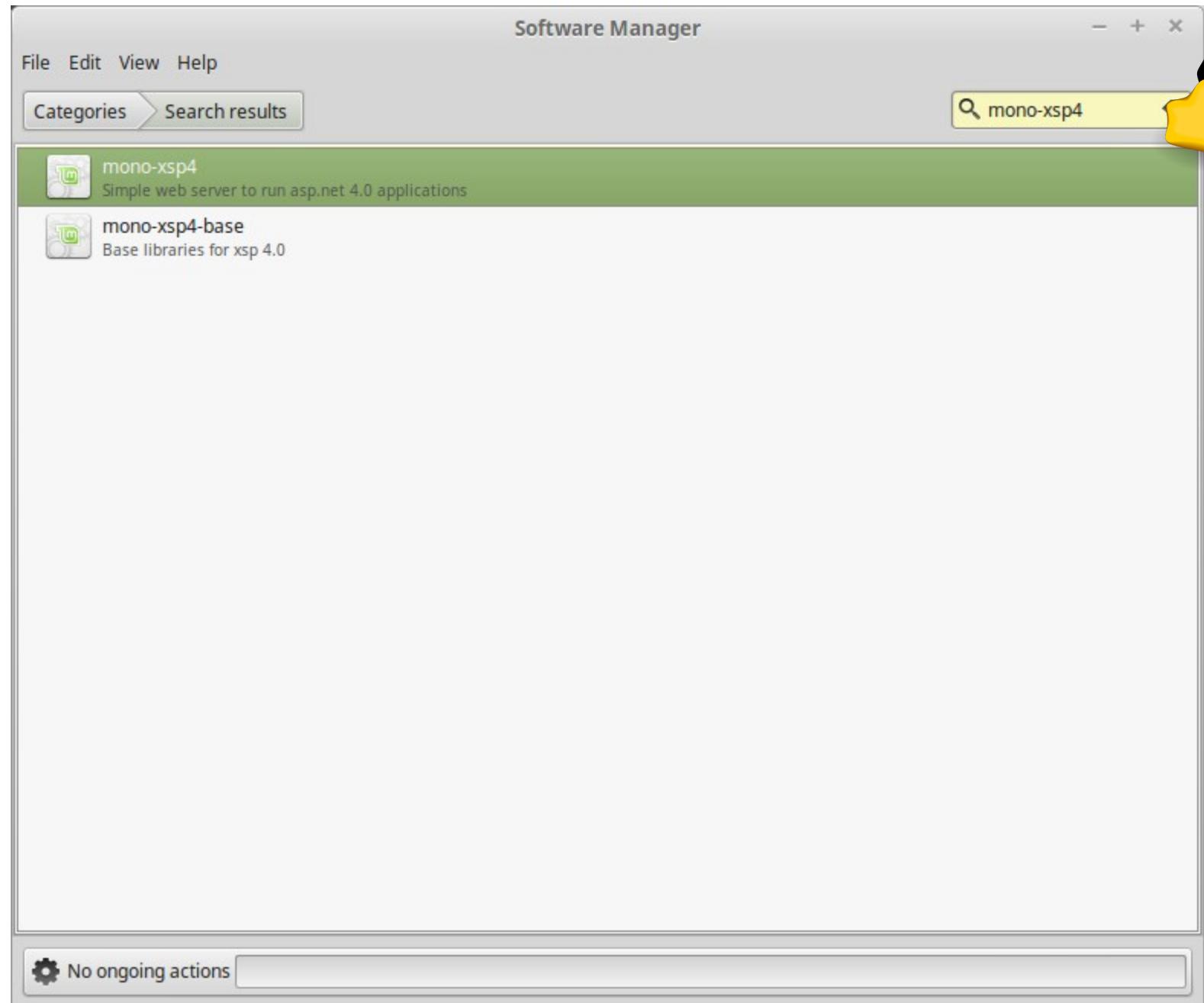
Name:

Location:

Solution name: Create directory for solution

Project will be saved at







Software Manager

File Edit View Help

Categories Search results mono-xsp4

mono-xsp4

Score: no reviews

Not installed Install

XSP is a simple web server written in C# that can be used to run your ASP.NET 4.0 applications.

This is the standalone ASP.NET web server. If you want to run ASP.NET applications with Apache, look at mono-apache-server.

Details:

Version: 3.8-Oxamarin2

Size: 182KB to download, 296KB of disk space required

Impact on packages:

- The following packages would be installed: mono-xsp4-base

No ongoing actions



bian - Default.aspx - MonoDevelop

File Edit View Search Project Build Run Tools Window Help

Debug Chromium Web Brow: MonoDevelop

Solution

blah

blah

- References
- Default.aspx
- Global.asax
- web.config

Default.aspx

html head @runat

```
1 <%@ Page Language="C#" Inherits="blah.Default" %>
2 <!DOCTYPE html>
3 <html>
4 <head runat="server">
5   <title>Default</title>
6 </head>
7 <body>
8   <form>
9     <input type="button" value="Click me!" />
10  </form>
11 </body>
12 </html>
```

Default - Chromium

127.0.0.1:8080

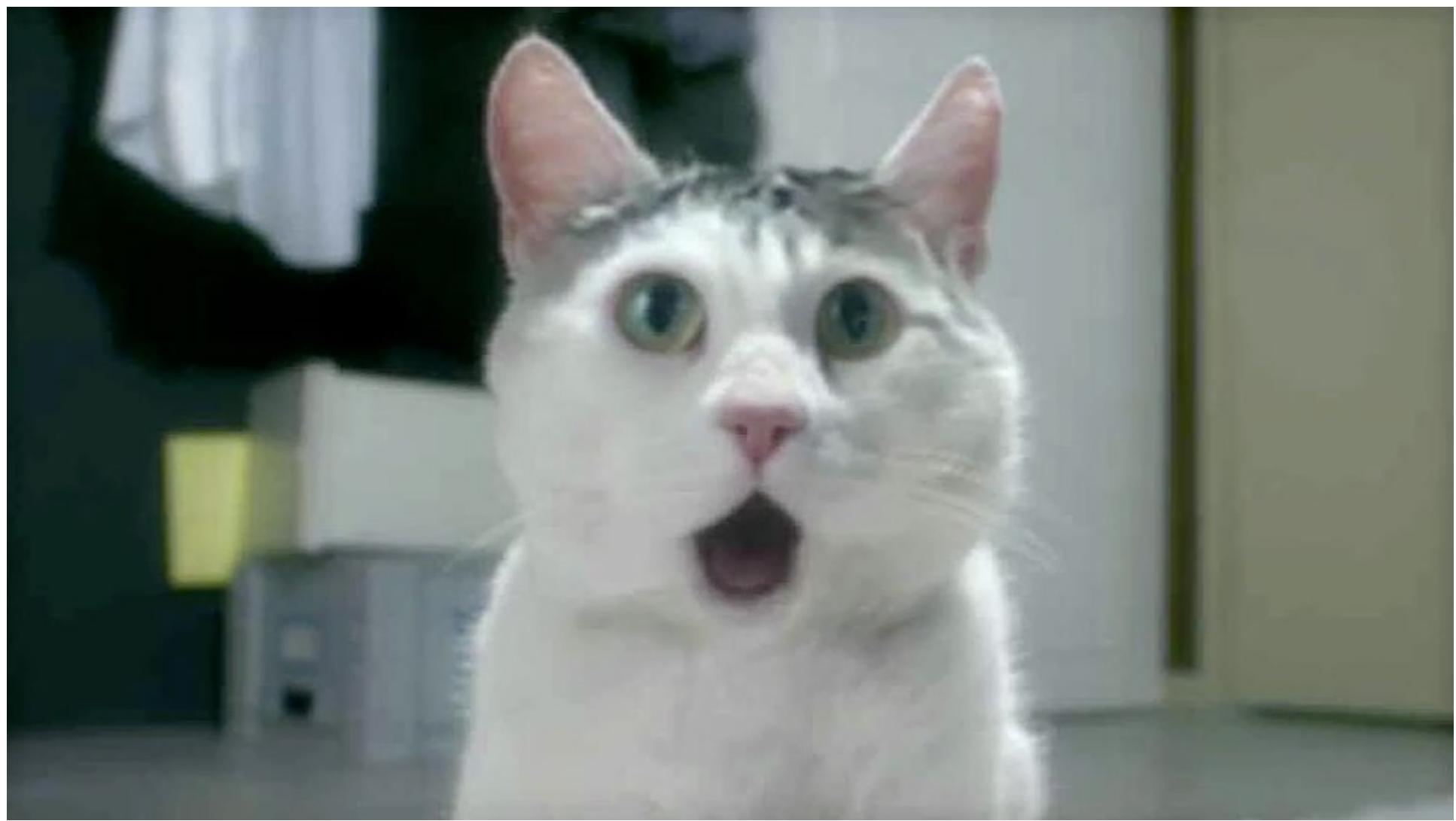
Click me!

Watch

Name

Click here to add a n

This screenshot shows the MonoDevelop IDE interface for a .NET project named 'blah'. The solution tree on the left lists the project folder 'blah' containing 'References', 'Default.aspx', 'Global.asax', and 'web.config'. The 'Default.aspx' file is open in the code editor, showing ASPX code with line numbers 1 through 14. A preview window titled 'Default - Chromium' displays the rendered page with a single button labeled 'Click me!'. The bottom of the screen features a watch window with a placeholder message 'Click here to add a n'.



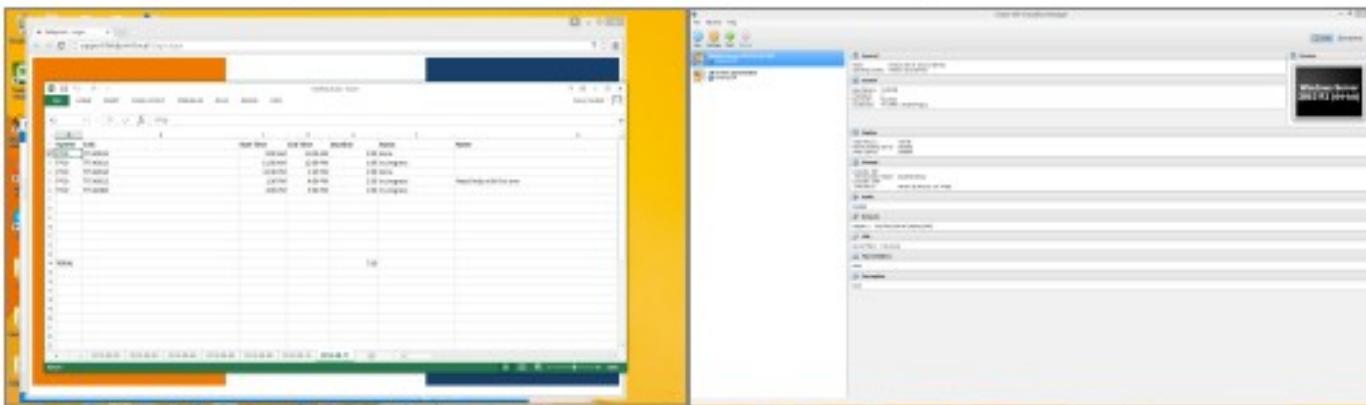
Auto Screen Capture

September 2015

	Sun	Mon	Tue	Wed	Thu	Fri	Sat
36	30	31	1	2	3	4	5
37	6	7	8	9	10	11	12
38	13	14	15	16	17	18	19
39	20	21	22	23	24	25	26
40	27	28	29	30	1	2	3
41	4	5	6	7	8	9	10

Today: 9/13/2015

All Screens Screen 1 Screen 2 Screen 3 Screen 4 Active Window



Screen Capture Slideshow Keylogger

Take screenshots every ...

0 hours initial capture
1 minutes 30 limit
0 seconds at 100 % res.
0 milliseconds demo mode

Start Capture Stop Capture

C:\Users\gkendall.FIELDPOINT\Desktop\screenshots\

Browse ...

Open Folder

Search

Options Demo: Off Schedule: On Last capture: (none)

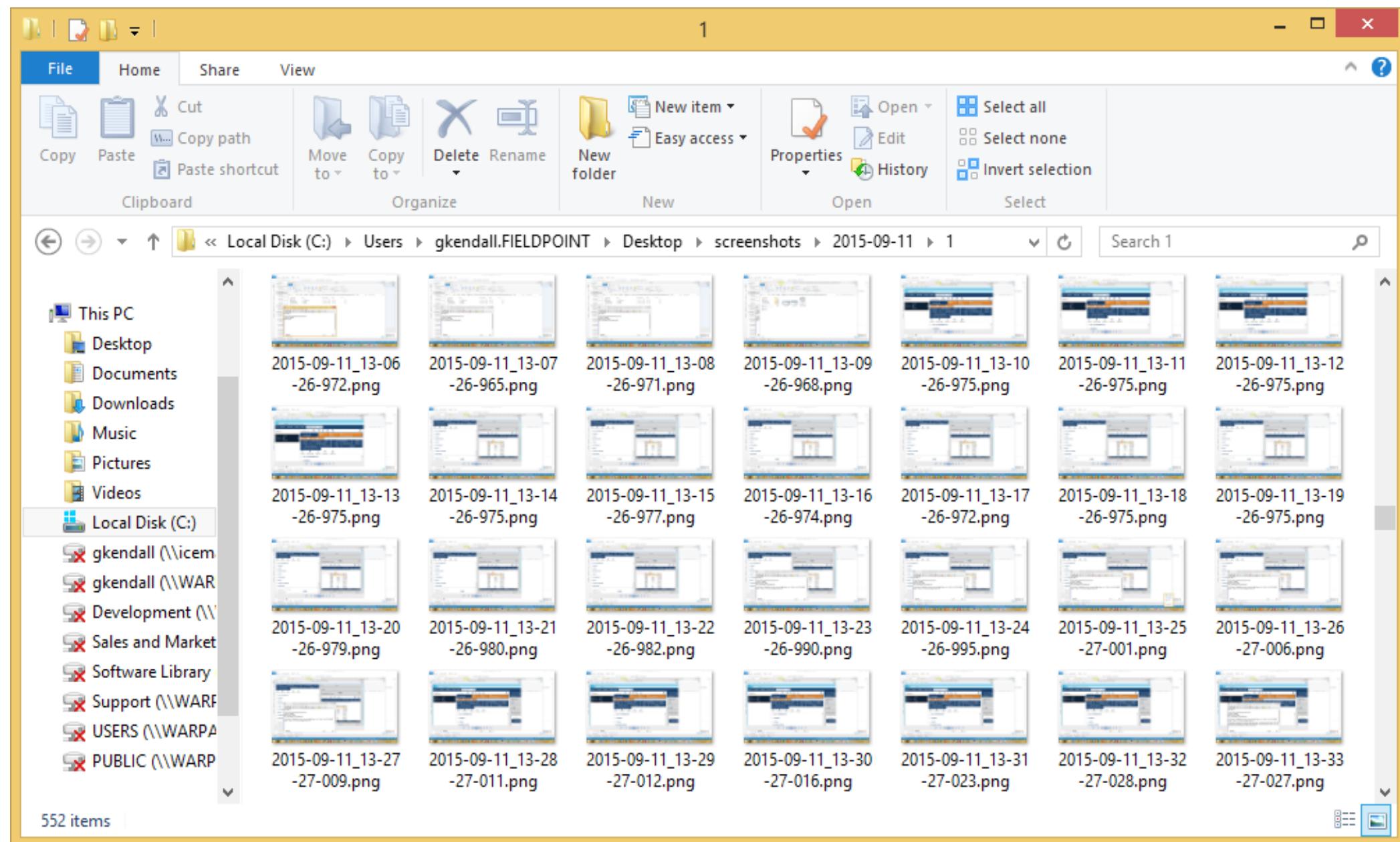
Auto Screen Capture - Running
Last capture: 1:37:08 AM (PNG)



[Customize...](#)



1:37 AM
9/13/2015



Auto Screen Capture

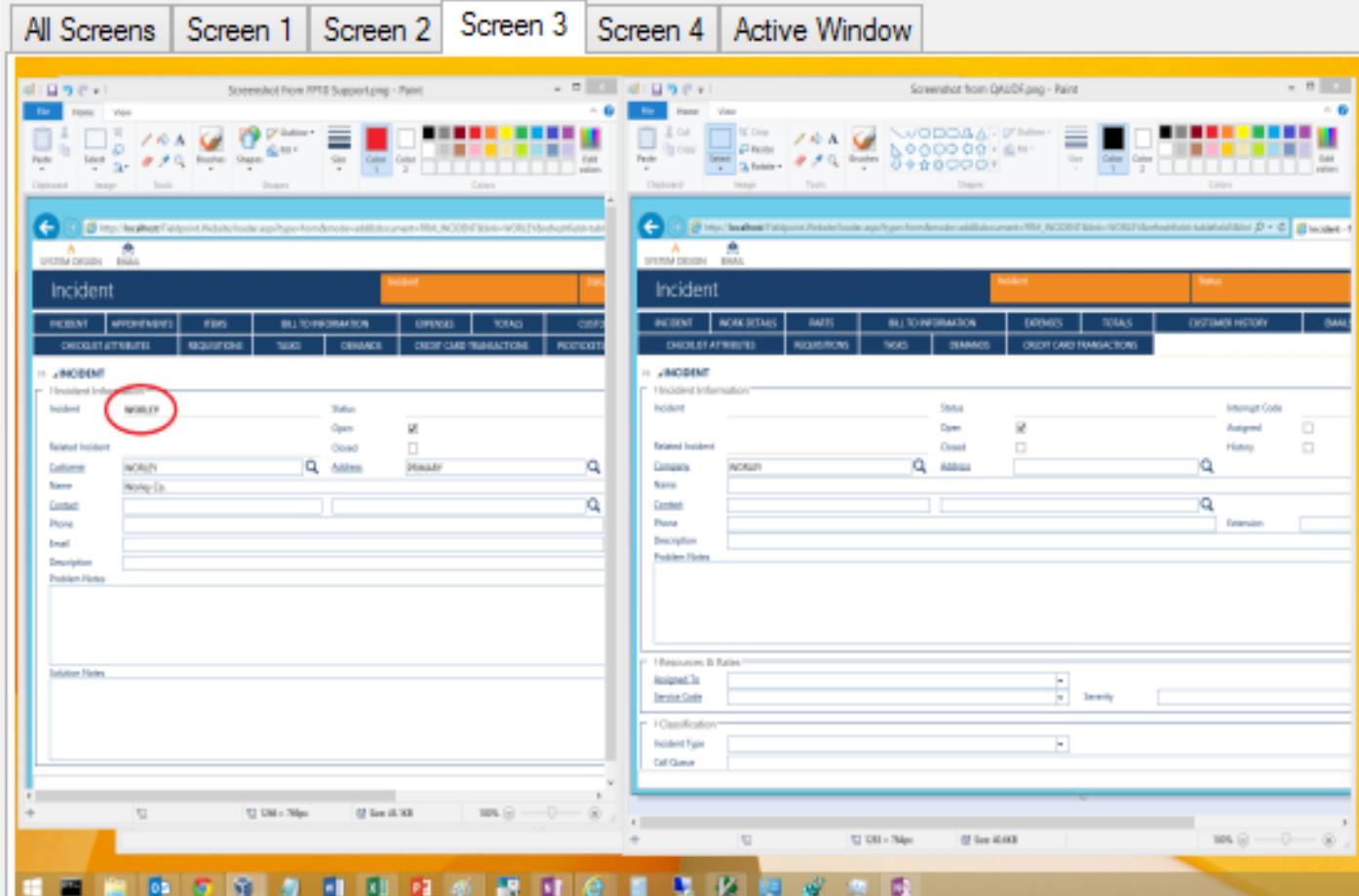
September 2015

Sun	Mon	Tue	Wednesday	Thu	Fri	Sat
36	30	31	1	2	3	4
37	6	7	8	9	10	11
38	13	14	15	16	17	18
39	20	21	22	23	24	25
40	27	28	29	30	1	2
41	4	5	6	7	8	9
						10

Today: 9/13/2015

Screen Capture Slideshow Keylogger

2015-09-11 10-45-26-762 PNG
2015-09-11 10-46-26-763 PNG
2015-09-11 10-47-26-762 PNG
2015-09-11 10-48-26-759 PNG
2015-09-11 10-49-26-763 PNG
2015-09-11 10-50-26-774 PNG
2015-09-11 10-51-26-765 PNG
2015-09-11 10-52-26-775 PNG
2015-09-11 10-53-26-769 PNG



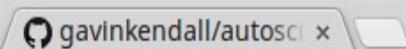
C:\Users\gkendall.FIELDPOINT\Desktop\screenshots\

Browse ...

Open Folder

Search

Options Demo: Off Schedule: On Last capture: (none)



GitHub, Inc. [US]

<https://github.com/gavinkendall/autoscreen>

- + ×



This repository

Search

Pull requests Issues Gist



gavinkendall / autoscreen

Unwatch 1

Star 0

Fork 0

Automated screen capture utility. — Edit

4 commits

1 branch

0 releases

1 contributor



Branch: master

autoscreen / +



Update README.md

gavinkendall authored 21 days ago

latest commit abfa318f00

Properties

first commit

21 days ago

icon

first commit

21 days ago

images

first commit

21 days ago

Editor.cs

first commit

21 days ago

EditorCollection.cs

first commit

21 days ago

File.cs

first commit

21 days ago

FileSystem.cs

first commit

21 days ago

FormAddEditor.Designer.cs

first commit

21 days ago

Code

Pull requests 0

Pulse

Graphs

Settings

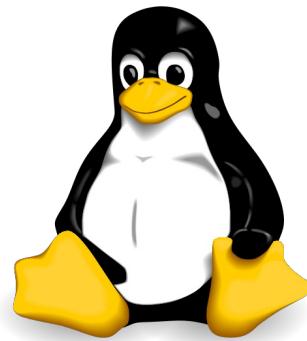
HTTPS clone URL

<https://github.com/gavikendall/autoscreen>

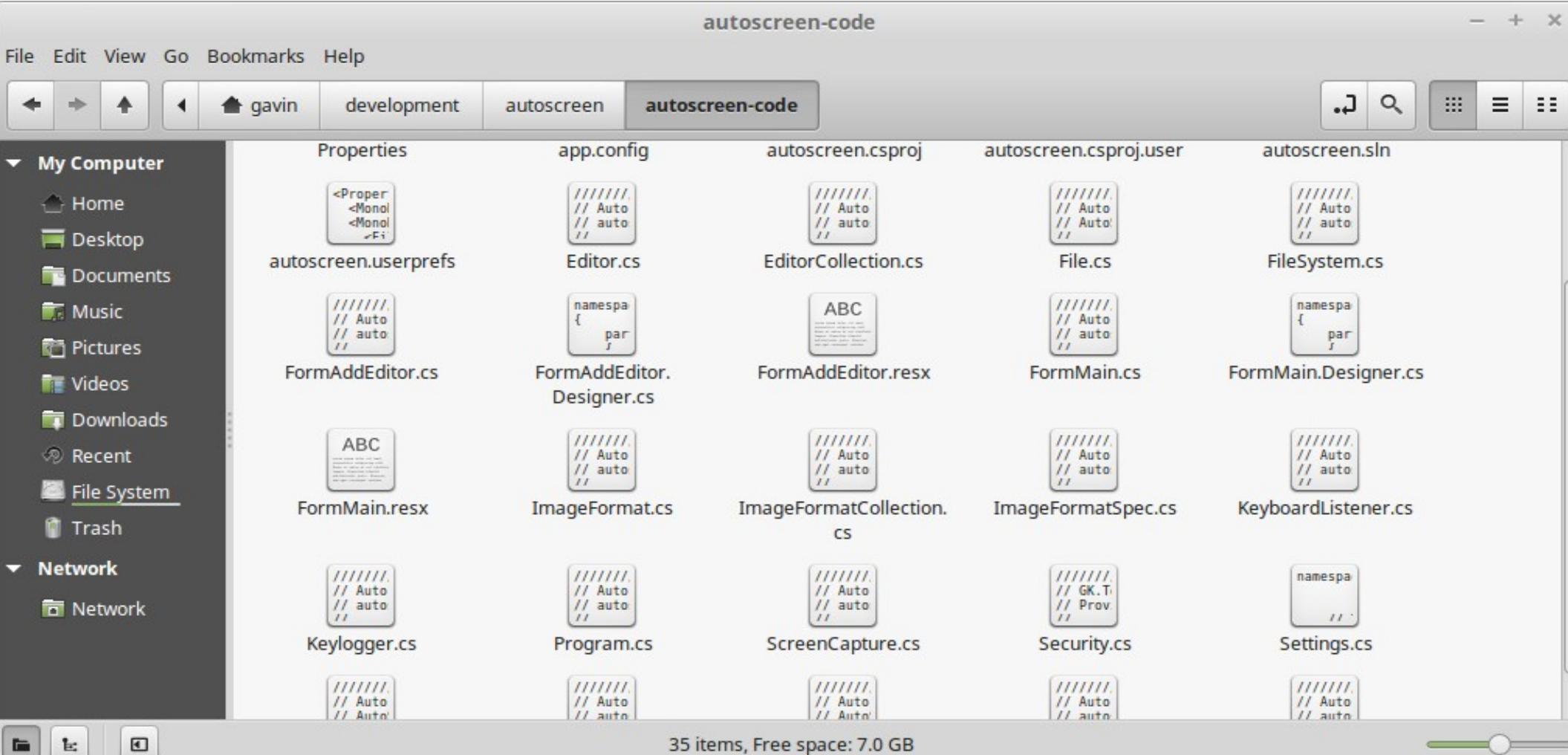
You can clone with HTTPS, SSH, or Subversion. ?

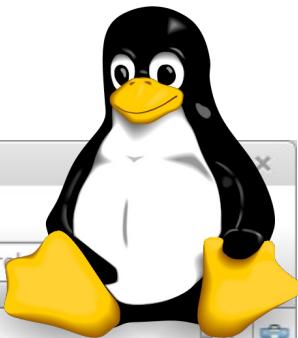
Download ZIP

How hard could it be?



Just copy the C# code and compile ...





autoscreen - FormMain.cs - MonoDevelop

File Edit View Search Project Build Run Tools Window Help

Debug

Default

MonoDevelop

Press 'Control'

Solution

- autoscreen
- autoscreen
 - References
 - icon
 - images
 - Properties
 - app.config
 - Editor.cs
 - EditorCollection.cs
 - FileSystem.cs
 - FormAddEditor.cs
- FormMain
 - FormMain.cs
 - FormMain.Designer.cs
 - ImageFormat.cs
 - ImageFormatCollection.cs
 - ImageFormatSettings.cs
 - KeyboardListener.cs
 - Keylogger.cs
 - Program.cs
 - ScreenCapture.cs
 - Settings.cs
 - Slideshow.cs
 - StatusMessage.cs
 - StringHelper.cs
- autoscreen-otk

```
887     /// </summary>
888     /// <param name="sender"></param>
889     /// <param name="e"></param>
890     private void toolStripButtonFirstSlide_Click(object sender, EventArgs e)
891     {
892         Slideshow.First();
893         listBoxScreenshots.SelectedIndex = Slideshow
894     }
895
896     /// <summary>
897     /// Shows the previous slide in the slideshow.
898     /// </summary>
899     /// <param name="sender"></param>
900     /// <param name="e"></param>
901     private void toolStripButtonPreviousSlide_Click(
902     {
903         Slideshow.Previous();
904         listBoxScreenshots.SelectedIndex = Slideshow
905     }
906
907     /// <summary>
908     /// Plays the slideshow.
909     /// </summary>
910     /// <param name="sender"></param>
911     /// <param name="e"></param>
912     private void toolStripButtonPlaySlideshow_Click(
913     {
914         if (Slideshow.Playing)
```



Properties



Build

Build action

Compile

Copy to output directory

Do not copy

Custom Tool

Custom Tool Namespace

Resource ID

Misc

Name

FormMain.cs

Path

/home/gavin/development/autoscreen/autoscreen/FormMain.cs

Type

C# source code

Deployment

File attributes

Has path references



Include in deploy



Relative target path

FormMain.cs

Target directory

Program files

Use project relative path



Watch

Breakpoints

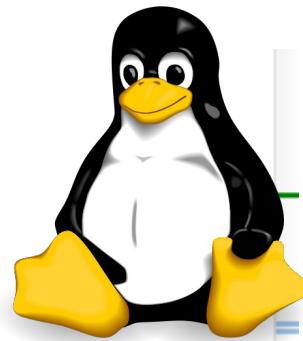
Errors

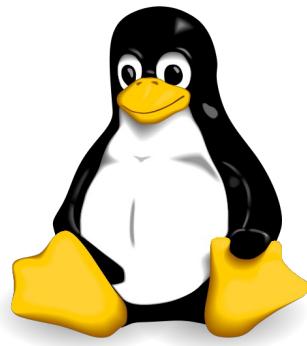
Tasks

Toolbox

Document Outline

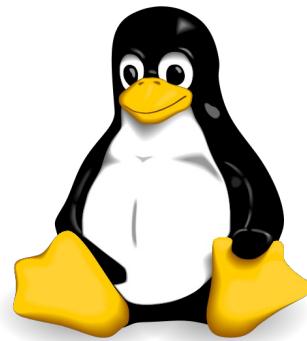
```
119     public static void Save()
120     {
121         XmlWriterSettings xsettings = new XmlWriterSettings();
122         xsettings.Indent = true;
123         xsettings.CloseOutput = true;
124         xsettings.CheckCharacters = true;
125         xsettings.Encoding = Encoding.UTF8;
126         xsettings.DoNotEscapeUriAttributes = true; Type `System.Xml.XmlWriterSettings' does not co...
127         xsettings.NewLineChars = Environment.NewLine;
128         xsettings.IndentChars = XML_FILE_INDENT_CHARS;
129         xsettings.NewLineHandling = NewLineHandling.Entitize;
130         xsettings.ConformanceLevel = ConformanceLevel.Document;
```





A few beers later ...

IT COMPILES!



Debug

File Edit View Go Bookmarks Help

← → ↑ ← development autoscreen autoscreen-code bin Debug screenshots\ ↗ 🔎 ⌂

My Computer

- Home
- Desktop
- Documents
- Music
- Pictures
- Videos
- Downloads
- Recent
- File Syst...
- Trash

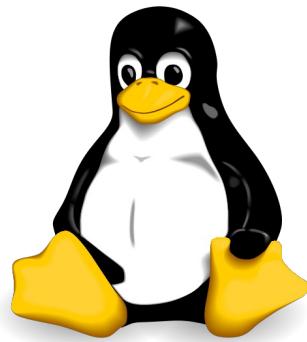
screenshots\ autoscreen.exe autoscreen.exe.mdb autoscreen.pdb

autoscreen.vhost.exe autoscreen.vhost.exe.manifest editors.xml

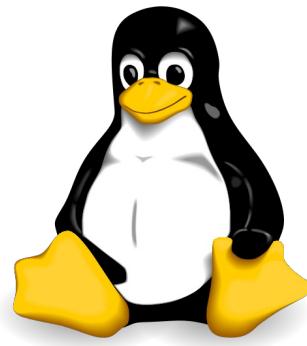
A screenshot of a Linux desktop environment showing a file manager window. The title bar says "Debug". The menu bar includes "File", "Edit", "View", "Go", "Bookmarks", and "Help". The toolbar below the menu bar has icons for back, forward, up, and search, along with buttons for "development", "autoscreen", "autoscreen-code", "bin", "Debug" (which is highlighted), and "screenshots\". The left sidebar shows "My Computer" with links to Home, Desktop, Documents, Music, Pictures, Videos, Downloads, Recent, File System (which is underlined), and Trash. The main pane displays a file list: "screenshots\" (green folder icon), "autoscreen.exe" (Windows executable icon, circled in red), "autoscreen.exe.mdb" (mdb file icon), "autoscreen.pdb" (pdb file icon), "autoscreen.vhost.exe" (Windows executable icon), "autoscreen.vhost.exe.manifest" (manifest file icon), and "editors.xml" (XML file icon). At the bottom, it says "7 items, Free space: 7.5 GB".

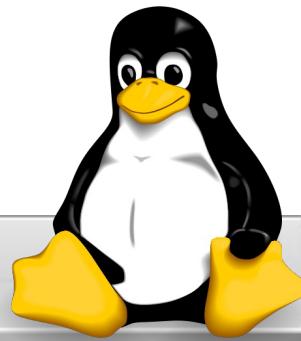


```
// For some reason this will show a copy of this form's window in Linux.  
//this.ShowInTaskbar = true;
```



```
.01 // I can't get the active window in Linux? Removing.  
.02 /*  
.03 public static Bitmap GetActiveWindowBitmap()  
.04 {  
.05     Rectangle rect = new Rectangle();  
.06     GetWindowRect(GetForegroundWindow(), out rect);  
.07  
.08     int width = rect.Width - rect.X;  
.09     int height = rect.Height - rect.Y;  
.10 }
```





Auto Screen Capture

April 2015

Sun	Mon	Tue	Wed	Thu	Fri	Sat	
14	29	30	31	1	2	3	4
15	5	6	7	8	9	10	11
16	12	13	14	15	16	17	18
17	19	20	21	22	23	24	25
18	26	27	28	29	30	1	2
19	3	4	5	6	7	8	9

Today: 2015-04-26

Screen Capture | Slideshow | Keylogger

Take screenshots every ...

0 hours initial capture

0 minutes 30 limit

1 seconds at 100 % res.

0 milliseconds demo mode

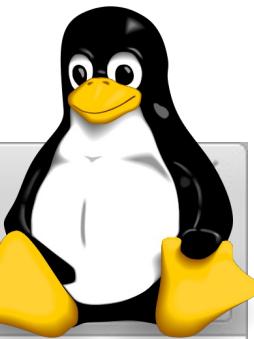
Start Capture Stop Capture

/home/gavin/development/autoscreen/autoscreen-code/bin/Debug/screenshots\

Browse ... Open Folder Search

Options Demo: On Schedule: Off Last capture: (none)

The application window has a title bar "Auto Screen Capture" with tabs: All Screens, Screen 1 (selected), Screen 2, Screen 3, Screen 4, Active Window. Below the tabs is a preview window showing the current desktop environment. To the left is a configuration panel with a calendar for April 2015, a screenshot schedule editor, and capture options like "initial capture", "demo mode", and "limit". At the bottom are buttons for "Start Capture" and "Stop Capture", and file navigation buttons for "Browse ...", "Open Folder", and "Search". The status bar at the bottom shows "Demo: On", "Schedule: Off", and "Last capture: (none)".



Desktop

File Edit View Go Bookmarks Help

← → ↑ ↵ ⌂ gavin

Desktop

screenshots\



My Computer

Home

Desktop

Documents

Music

Pictures

Videos

Downloads

Recent

File System

Trash

Network

Network



PsyChat



screenshots



screenshots\



Auto Screen Capture



Chromium



Eclipse



GIMP



LibreOffice



MonoDevelop



screenshots\2015-08-20\2015-08-20_20-58-28-784.png



screenshots\2015-08-20\2015-08-20_20-59-29-074.png



screenshots\2015-08-20\2015-08-20_21-00-29-090.png



screenshots\2015-08-20\2015-08-20_21-01-29-090.png



screenshots\2015-08-20\2015-08-20_21-02-29-097.png



screenshots\2015-08-20\2015-08-20_21-03-29-101.png



screenshots\2015-08-20\2015-08-20_21-04-29-106.png



screenshots\2015-08-20\2015-08-20_21-05-29-114.png



screenshots\2015-08-20\2015-08-20_21-06-29-130.png



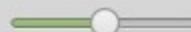
screenshots\2015-08-20\2015-08-20_21-07-29-145.png

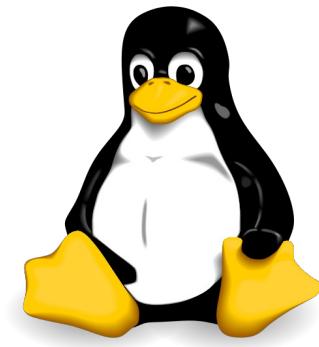


screenshots\2015-08-20\2015-08-20_21-08-29-152.png

Folder Back Forward

20 items, Free space: 7.1 GB





Terminal

```
gavin@gavin-linux ~/Desktop $ ls -l *.png
-rw-r--r-- 1 gavin gavin 320787 Aug 20 20:58 screenshots\2015-08-20\1\2015-08-20_20-58-28-784.png
-rw-r--r-- 1 gavin gavin 464456 Aug 20 20:59 screenshots\2015-08-20\1\2015-08-20_20-59-29-074.png
-rw-r--r-- 1 gavin gavin 350037 Aug 20 21:00 screenshots\2015-08-20\1\2015-08-20_21-00-29-090.png
-rw-r--r-- 1 gavin gavin 455888 Aug 20 21:01 screenshots\2015-08-20\1\2015-08-20_21-01-29-090.png
-rw-r--r-- 1 gavin gavin 388797 Aug 20 21:02 screenshots\2015-08-20\1\2015-08-20_21-02-29-097.png
-rw-r--r-- 1 gavin gavin 336684 Aug 20 21:03 screenshots\2015-08-20\1\2015-08-20_21-03-29-101.png
-rw-r--r-- 1 gavin gavin 337422 Aug 20 21:04 screenshots\2015-08-20\1\2015-08-20_21-04-29-106.png
-rw-r--r-- 1 gavin gavin 315566 Aug 20 21:05 screenshots\2015-08-20\1\2015-08-20_21-05-29-114.png
```

```
gavin@gavin-linux ~/Desktop $
```

of anyhow

I has quit (Remote host closed the

com/x-zzgpsezcljabfku] has joined

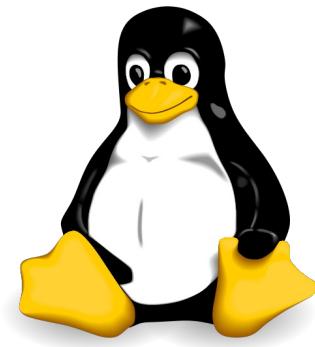
##csharp
did.or.charter.com] has quit (Quit: Auf

:esc
blizzy
genuser
Shurik
+Anid
+brajkovic
+canton7
+chilversc
+Dirm
+dragonshed
+fermav

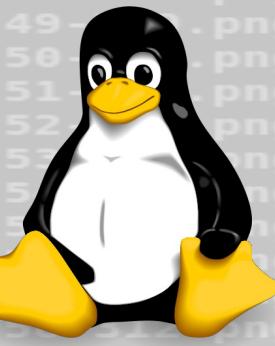
return-statement
validate.lint.new
laptop preview
URLs or local pa
testfile11

“/” versus “\”



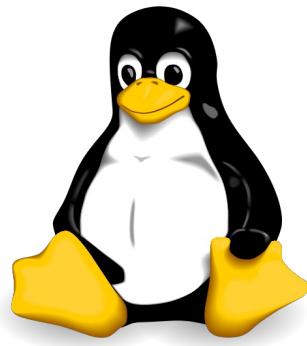


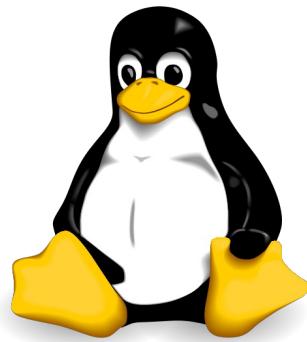
```
158  
159         if (count <= SCREEN_MAX)  
160         {  
161             filename = filename.Replace('\\', '/');  
162             SaveToFile(bitmap, m_format, filename.Replace("%screen%",  
→ 163         }  
164  
165         System.GC.Collect();
```



Terminal

```
-rw-r--r-- 1 gavin gavin 1689580 Sep 13 01:25 2015-09-13_01-25-48-227.png
-rw-r--r-- 1 gavin gavin 1689565 Sep 13 01:25 2015-09-13_01-25-49-239.png
-rw-r--r-- 1 gavin gavin 1409467 Sep 13 01:25 2015-09-13_01-25-50-255.png
-rw-r--r-- 1 gavin gavin 1409792 Sep 13 01:25 2015-09-13_01-25-51-249.png
-rw-r--r-- 1 gavin gavin 1410427 Sep 13 01:25 2015-09-13_01-25-52-261.png
-rw-r--r-- 1 gavin gavin 1411091 Sep 13 01:25 2015-09-13_01-25-53-263.png
-rw-r--r-- 1 gavin gavin 1418765 Sep 13 01:25 2015-09-13_01-25-54-278.png
-rw-r--r-- 1 gavin gavin 1418982 Sep 13 01:25 2015-09-13_01-25-55-287.png
-rw-r--r-- 1 gavin gavin 1419373 Sep 13 01:25 2015-09-13_01-25-56-300.png
-rw-r--r-- 1 gavin gavin 1423704 Sep 13 01:25 2015-09-13_01-25-57-308.png
-rw-r--r-- 1 gavin gavin 1425418 Sep 13 01:25 2015-09-13_01-25-58-312.png
-rw-r--r-- 1 gavin gavin 1425528 Sep 13 01:25 2015-09-13_01-25-59-324.png
-rw-r--r-- 1 gavin gavin 1426271 Sep 13 01:26 2015-09-13_01-26-00-330.png
-rw-r--r-- 1 gavin gavin 1430531 Sep 13 01:26 2015-09-13_01-26-01-340.png
-rw-r--r-- 1 gavin gavin 1430531 Sep 13 01:26 2015-09-13_01-26-02-349.png
-rw-r--r-- 1 gavin gavin 1430531 Sep 13 01:26 2015-09-13_01-26-03-363.png
-rw-r--r-- 1 gavin gavin 1435279 Sep 13 01:26 2015-09-13_01-26-04-367.png
-rw-r--r-- 1 gavin gavin 1435389 Sep 13 01:26 2015-09-13_01-26-05-379.png
-rw-r--r-- 1 gavin gavin 1437393 Sep 13 01:26 2015-09-13_01-26-06-385.png
-rw-r--r-- 1 gavin gavin 1442785 Sep 13 01:26 2015-09-13_01-26-07-389.png
-rw-r--r-- 1 gavin gavin 1443067 Sep 13 01:26 2015-09-13_01-26-08-402.png
-rw-r--r-- 1 gavin gavin 1443032 Sep 13 01:26 2015-09-13_01-26-09-408.png
-rw-r--r-- 1 gavin gavin 1448974 Sep 13 01:26 2015-09-13_01-26-10-422.png
-rw-r--r-- 1 gavin gavin 1449624 Sep 13 01:26 2015-09-13_01-26-11-432.png
-rw-r--r-- 1 gavin gavin 1412393 Sep 13 01:26 2015-09-13_01-26-12-443.png
-rw-r--r-- 1 gavin gavin 1412393 Sep 13 01:26 2015-09-13_01-26-13-457.png
-rw-r--r-- 1 gavin gavin 1412395 Sep 13 01:26 2015-09-13_01-26-14-466.png
-rw-r--r-- 1 gavin gavin 1412584 Sep 13 01:26 2015-09-13_01-26-15-474.png
-rw-r--r-- 1 gavin gavin 1412651 Sep 13 01:26 2015-09-13_01-26-16-477.png
-rw-r--r-- 1 gavin gavin 1412663 Sep 13 01:26 2015-09-13_01-26-17-492.png
-rw-r--r-- 1 gavin gavin 1563323 Sep 13 01:26 2015-09-13_01-26-18-500.png
-rw-r--r-- 1 gavin gavin 1576955 Sep 13 01:26 2015-09-13_01-26-19-505.png
-rw-r--r-- 1 gavin gavin 1576955 Sep 13 01:26 2015-09-13_01-26-20-521.png
-rw-r--r-- 1 gavin gavin 1576939 Sep 13 01:26 2015-09-13_01-26-21-525.png
-rw-r--r-- 1 gavin gavin 1576939 Sep 13 01:26 2015-09-13_01-26-22-534.png
-rw-r--r-- 1 gavin gavin 1552110 Sep 13 01:26 2015-09-13_01-26-23-546.png
-rw-r--r-- 1 gavin gavin 1551614 Sep 13 01:26 2015-09-13_01-26-24-548.png
-rw-r--r-- 1 gavin gavin 1551614 Sep 13 01:26 2015-09-13_01-26-25-555.png
-rw-r--r-- 1 gavin gavin 1518834 Sep 13 01:26 2015-09-13_01-26-26-569.png
-rw-r--r-- 1 gavin gavin 1484393 Sep 13 01:26 2015-09-13_01-26-27-584.png
-rw-r--r-- 1 gavin gavin 1456583 Sep 13 01:26 2015-09-13_01-26-28-592.png
-rw-r--r-- 1 gavin gavin 1456583 Sep 13 01:26 2015-09-13_01-26-29-605.png
-rw-r--r-- 1 gavin gavin 1446475 Sep 13 01:26 2015-09-13_01-26-30-612.png
-rw-r--r-- 1 gavin gavin 1443882 Sep 13 01:26 2015-09-13_01-26-31-621.png
-rw-r--r-- 1 gavin gavin 1443938 Sep 13 01:26 2015-09-13_01-26-32-626.png
-rw-r--r-- 1 gavin gavin 1458736 Sep 13 01:26 2015-09-13_01-26-33-637.png
-rw-r--r-- 1 gavin gavin 1452769 Sep 13 01:26 2015-09-13_01-26-34-640.png
-rw-r--r-- 1 gavin gavin 1453233 Sep 13 01:26 2015-09-13_01-26-35-654.png
```

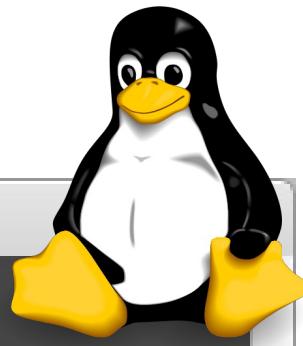




Death by tray



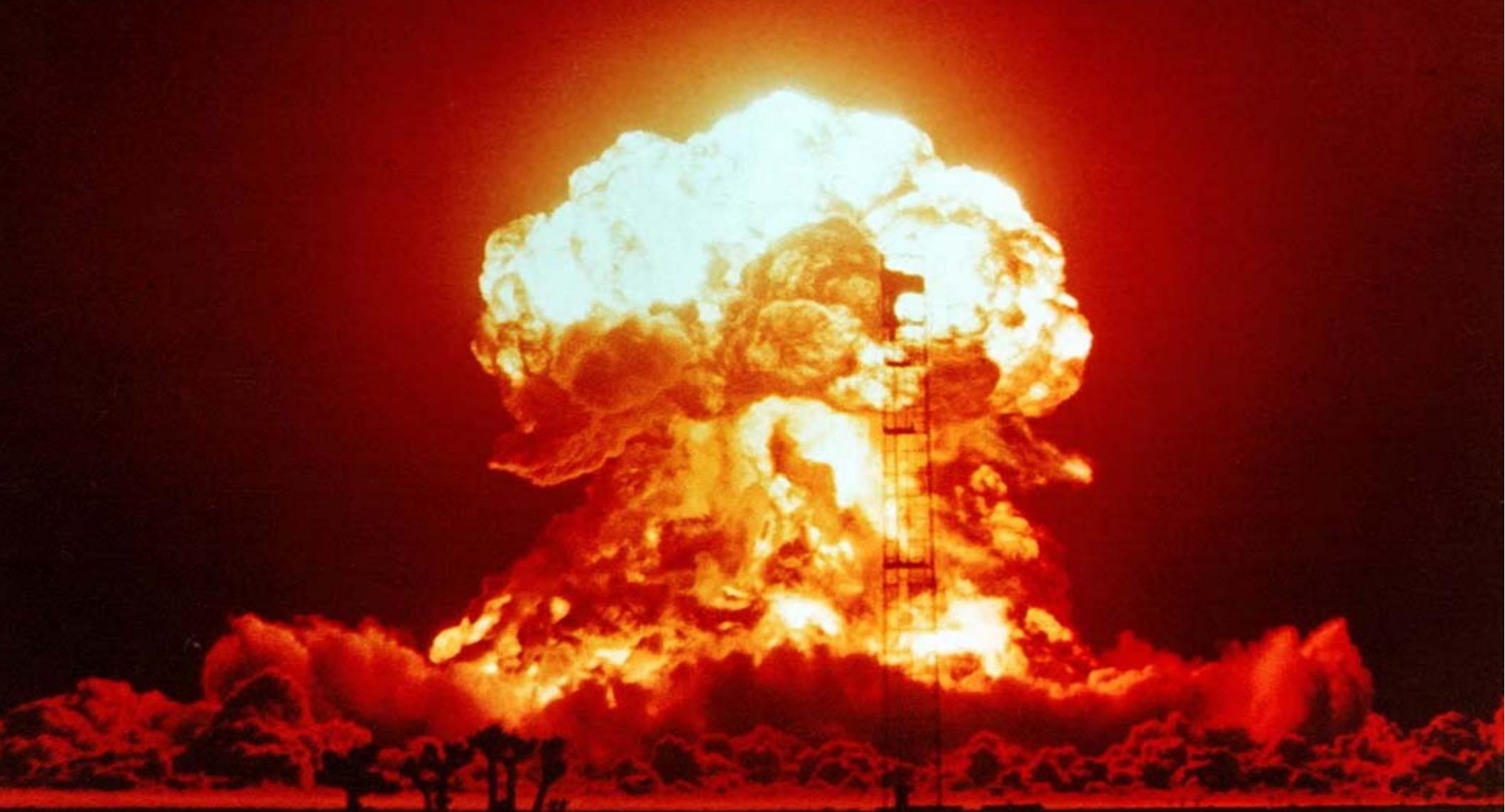
it shall be!



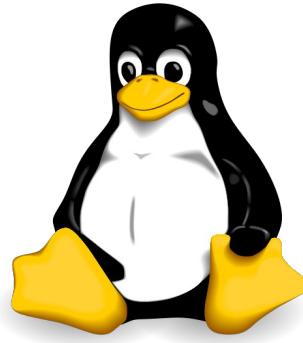
Terminal

```
gavin@gavin-linux ~ $ ps -A | grep mono
5235 ? 00:00:03 mono
gavin@gavin-linux ~ $
```

kill 5235



A Few Things To Consider



- Do not make references to the Taskbar (this.ShowInTaskbar = true)
- Exercise caution when calling Win32 DLLs ([DllImport("user32.dll")])
- Avoid minimizing your application to the System Tray
- Be careful when getting the name of the user ...

```
// This works in Windows.  
//User.username = (string)key.GetValue("username", System.Security.Principal.WindowsIdentity.GetCurrent().Name.Split('\\')[1].ToString());  
  
// This works in Linux.  
User.username = (string)key.GetValue("username", System.Security.Principal.WindowsIdentity.GetCurrent().Name);
```

- MonoDevelop does not have a WinForms designer
- So try making a GTK# version of your application instead ...



TestGtkSharp - MainWindow.cs* - MonoDevelop

File Edit View Search Project Build Run Tools Window Help

Debug Default MonoDevelop Press 'Con

Solution

TestGtkSharp TestGtkSharp References User Interface Properties MainWindow Program.cs

Program.cs MainWindow.cs MainWindow.cs

MainWindow

< September > < 2015 >

Sun	Mon	Tue	Wed	Thu	Fri	Sat
30	31	1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	1	2	3
4	5	6	7	8	9	10

GtkButton

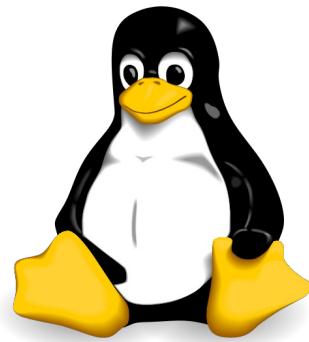
Source Designer

Watch Breakpoints Errors Tasks Application Output Package Console

Toolbox Properties Document Outline

- Combo Box
- Combo Box Entry
- Custom Widget
- Drawing Area
- Entry
- File Chooser Button
- File Chooser Widget
- Font Button
- Font Selection
- Horizontal Scale
- Horizontal Scrollbar
- Horizontal Separator
- Icon View
- Image
- Label
- Menu Bar

GTK# != WinForms



A man with curly hair, wearing a brown coat and breeches, is running through a lush green field. He is looking over his shoulder. In the background, there is a wooden signpost with directional arrows pointing towards "Cottage", "Old Bridge", and "The Green". A white horse is grazing in the distance. The scene is set in a rural, pastoral landscape.

KEEP
CALM
AND
GO ON
AN ADVENTURE