

Replacing System.Drawing in .NET Core



SkiaSharp

Taylor Wilken

Works24 provides digital signage, on-hold messaging, overhead music to more than 2,500 locations in the US and Canada

Hodgepodge of systems written over 16 years,
VB6 COM/SQL Server, Classic ASP, .NET Webforms, MVC 2

Paying off technical debt, modernizing, simplifying
codebase, cutting server and maintenance costs

New platform is .NET Core 2 REST services running
on Docker in Debian, Angular front-end

**The Problem: Our legacy system draws
lots and lots of images in .NET using System.Drawing**



Weather Conditions

Currently:



67°

Partly Cloudy

Humidity 87%

Wind NE 2.7

Moyock, NC

Five-Day Forecast

SUN

88



69

MON

92



69

TUE

89



70

WED

81



69

THU

81



69

Updated: Sunday, May 13



NOUVELLES NATIONALES

Vague de chaleur intense: le bilan grimpe à 33 décès au Québec

MONTRÉAL - Le bilan des décès «potentiellement» liés à la chaleur au Québec s'élevait à 33 jeudi. De ce nombre, 18 décès ont été enregistrés à Montréal, sept en Estrie, cinq en Mauricie-Centre-du-Québec, deux en Montérégie et un à Laval, a précisé le docteur Horacio Arruda, directeur national de santé publique, au cours d'une conférence de presse à Montréal. La ministre déléguée à la Santé publique, Lucie Charlebois, a pris soin de souligner qu'aucun ...

NEWS



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MESSAGES



THANK YOU FOR BEING OUR CUSTOMER.

NEWS



ATLAN

System.Drawing

Wrapper around GDI+, 2D graphics library introduced with Windows XP

Deeply tied to Windows - Not cross-platform

Limited functionality in .NET Core (CoreCompat/System.Drawing), full functionality on Windows hosts (referencing full framework)

C# Alternatives

ImageSharp (github.com/SixLabors/ImageSharp):
Written in C#, cross-platform, thread-safe

ImageResizer (imageresizing.net): Currently Windows-only,
cross-platform version, ImageFlow, is in alpha

Several smaller projects, search "Image Resizing" in NuGet

If you just need to resize or watermark images, go with one of these.

Native Alternatives

Magick.NET: Windows support complete, Linux/Mac WIP

FreeImage-dotnet-core: FreeImage library, rough around the edges

SkiaSharp

Skia/SkiaSharp

2D drawing engine for Chrome, Android and Firefox

Created/Backed by Google

BSD License

Microsoft maintains the SkiaSharp .NET Core Wrapper library
(originally created by Xamarin/Mono team)

Near feature parity with System.Drawing

Let's look at some code!

github.com/TaylorWilken/SkiaTalk

github.com/mono/SkiaSharp

skia.org