

# Run your C# apps in the browser with Blazor

Emanuele Bartolesi

Full Stack Web Developer @Experts Inside (Switzerland)

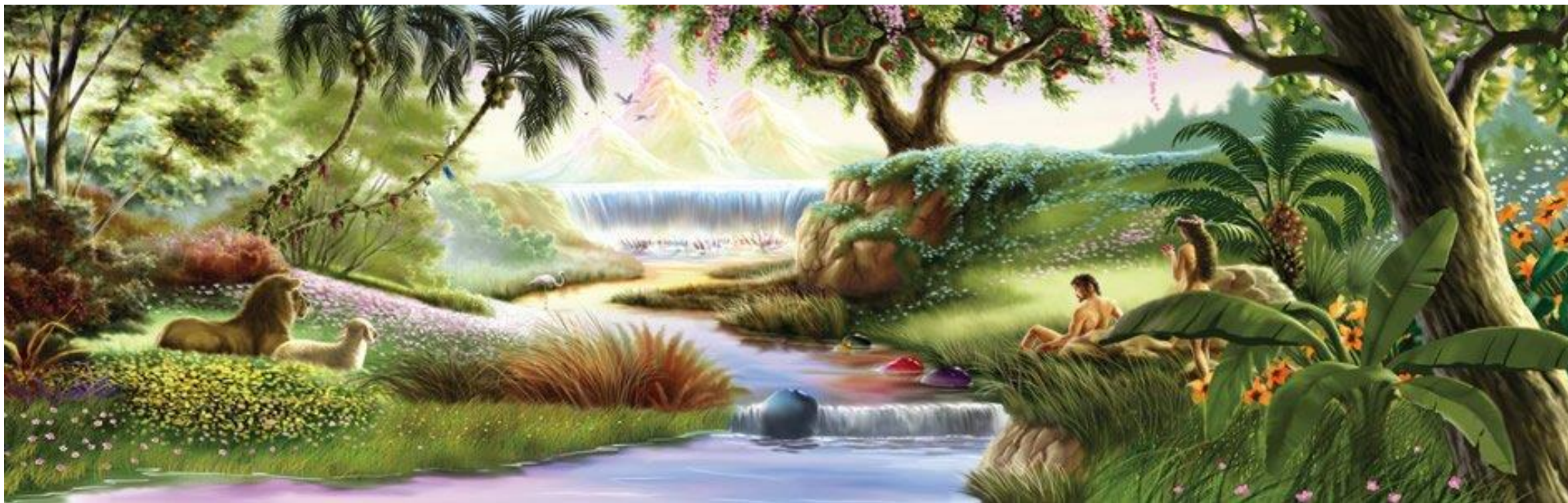
 //dev.to/kasuken  @kasuken  //twitch.tv/kasuken



# Safety instructions for this session



# Il mondo senza JavaScript





# Il mondo con JavaScript



Poi è arrivato Blazor...



# .NET Core 3.0 Preview 6

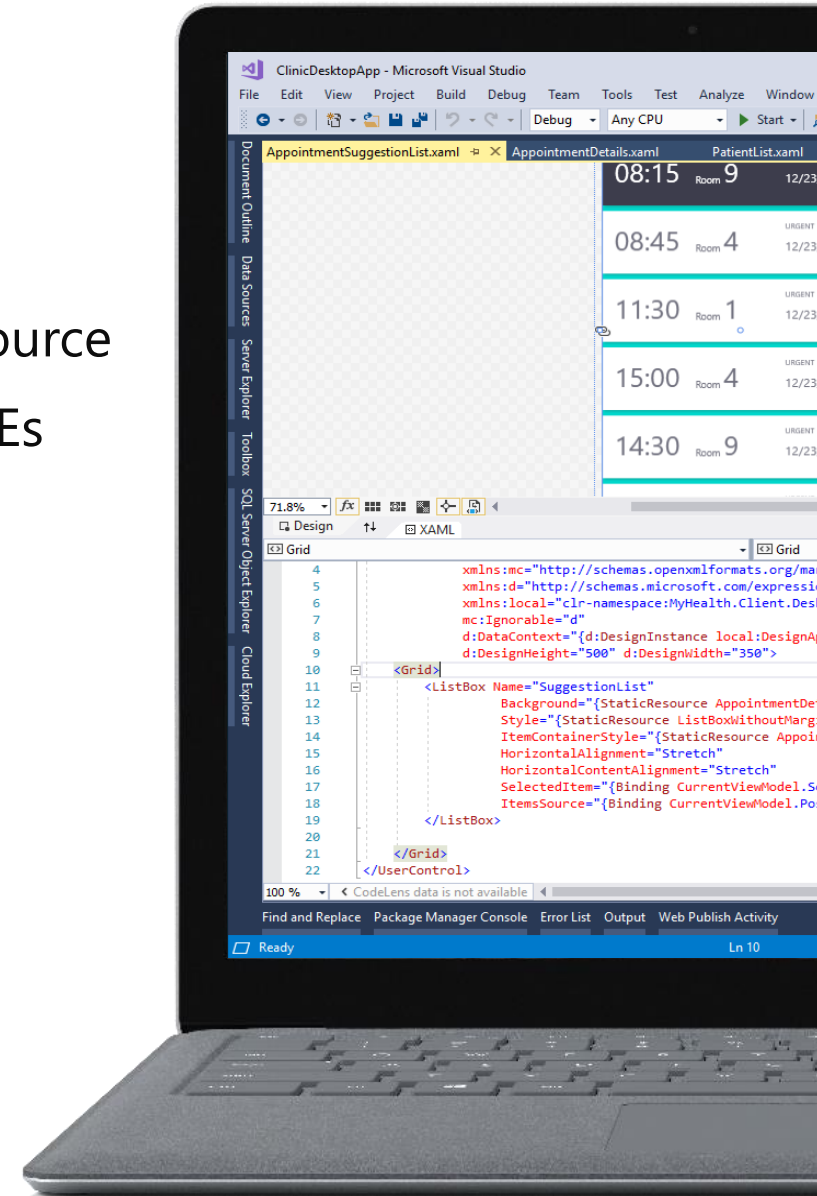
Windows desktop support with WPF and WinForms, also open source  
Flexible deployment, side-by-side support and self-contained EXEs

➔ Full-stack web development with C# and Razor ➔

Significant performance improvements

New C# language features for productivity and less errors

[dot.net/get-core3](https://dot.net/get-core3)



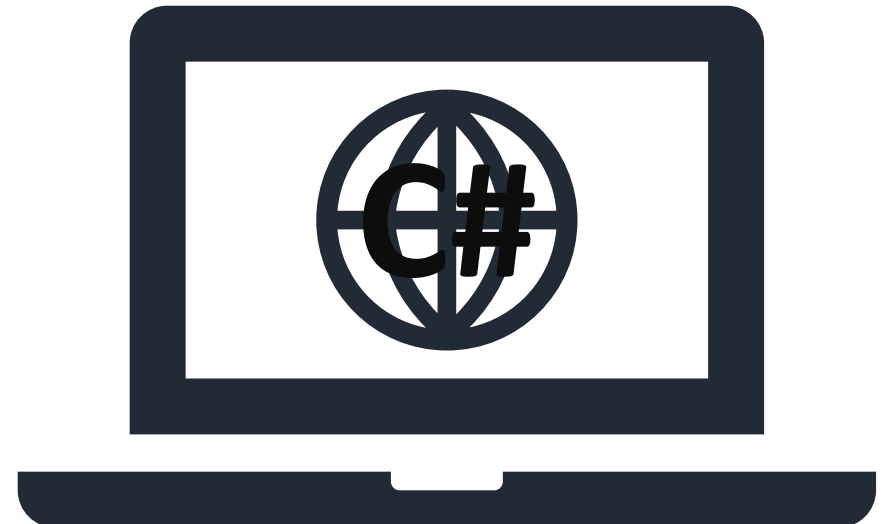


# Blazor

- Build client-side web UI with .NET instead of JavaScript
- Write reusable web UI components with C# and Razor
- Share .NET code with both the client and the server
- Call into JavaScript libraries & browser APIs as needed



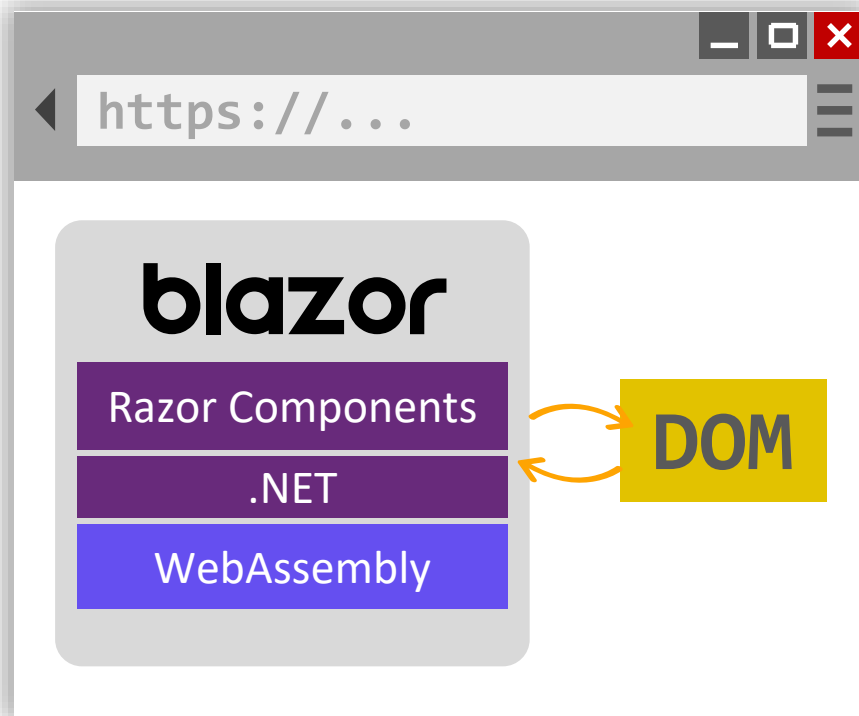
Blazor for WebAssembly now in  
*official preview!*





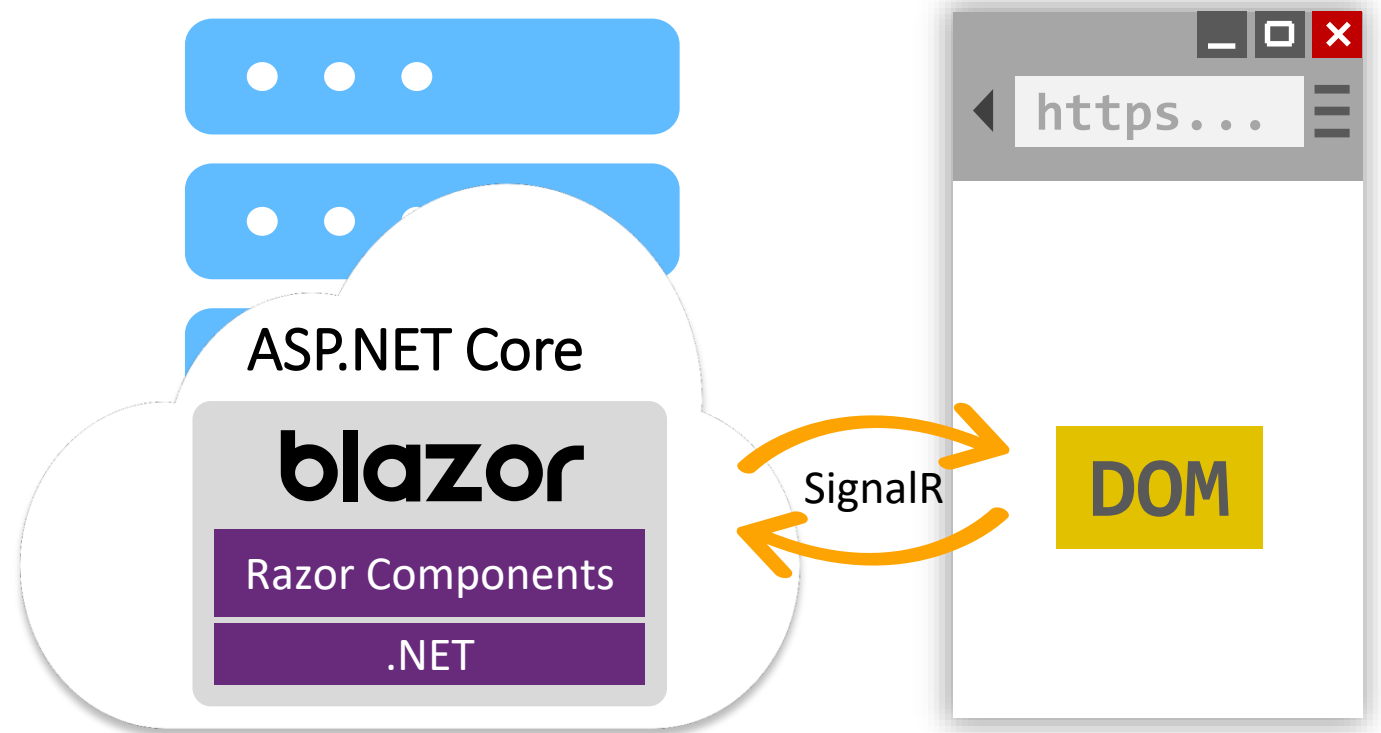
# Blazor on client or server

Client-side



*Future*

Server-side



*.NET Core 3.0*



# Demo



“Telerik UI for Blazor components have been built from the ground-up to ensure you experience shorter development cycles, quick iterations and cut time to market”

<https://www.telerik.com/blazor-ui>



“DevExpress UI for Blazor ships with 7 UI components (including a Data Grid and Pivot Grid) so you can design rich user experiences”

<https://www.devexpress.com/blazor>



“The Syncfusion ASP.NET Core Blazor Components library is the only suite that you will ever need to build an application, containing over 60 high-performance, lightweight, modular, and responsive UI controls in a single package.”

<https://www.syncfusion.com/blazor-components>

# Try Blazor!

Download: <https://dot.net/get-core3>

Visual Studio: <https://visualstudio.com/preview>

Docs: <https://docs.asp.net>

Blazor: <https://blazor.net>

Workshop: <https://aka.ms/blazorworkshop>

BlazorFiddle: <https://blazorfiddle.com/>

Awesome Blazor: <https://github.com/AdrienTorriz/awesome-blazor>

Source: <https://github.com/kasuken/BlazorExamples>



# Jeff Fritz on Twitch

Developer Links - 2019-06-27 Episode 285 - The Azure Journey Windows Desktop: .NET Community Standup - June 27th, 2019 Fritz.StreamTools Top week: No contributors this week Top mo

github.com/FritzAndFriends/ResourceManagement

Search or jump to... Pull requests Issues Marketplace Explore

FritzAndFriends / ResourceManagement Watch 6 Star 19 Fork 9

Code Issues 11 Pull requests 0 Projects 0 Wiki Security Insights Settings

A resource management application originally designed for Sebastian Riding Associates. Edit

Manage topics

31 commits 4 branches 0 releases 3 contributors MIT

Branch: master New pull request Create new file Upload files Find File Clone or download

csharpfritz Merge pull request #13 from FritzAndFriends/revert-12-feature\_ScheduleUI Latest commit 720ce65 9 days ago

src	Revert "Initial schedule UI"	9 days ago
.gitignore	Renamed sln file	last month
LIC	Initial commit	6 months ago
	WIP - Adding blazor to our project	27 days ago

CommunityDays.it

Rainbow Beard TwitchCon 6700 8000

6700 47 75.9↑

Azure

bardichemachine: hello from microsoft Brazil

johnncallaway: Glitter rainbow?

choclad: Totally scripted stream

Grid21: I liked JS over ASP.NET.

GoranHal: Be careful with your voice, sounds like a cold is coming

Janisku7: JonCallaway is so scripted?

Grid21:

bozit\_au: Is it because he can't really use it himself and it was a re-gift?

LuckyNoS7evin: I've actually found the discord C# libs out there have issues with connections but my the JS lib I use hasn't disconnected for about 4 months except when the Cloudflare (router issue) thing happened at the start of the week

Grid21: I haven't been here long and I already like this stream!

welshronaldo: good morning fritz & chat

Grid21: So do people code a long with you? Or you just explain as you go?

IAMNOTMYSELF RESUB X6

DULCY FOLLOW

JULIETTA FOLLOW

ZHIAYANG FOLLOW



# Ed Cheberneau on Twitch

CommunityDays.it

The screenshot shows a Twitch stream of Ed Charbeneau, a developer, working on a project named "BlazePort" in Visual Studio. The code displayed is in C# and Razor, showing a Blazor component with injected services and a form. The chat window on the right shows messages from viewers, including "Hello!", "hi", "Hey", "good afternoon", and "Hi Ed. Liked your interview on the MS dev Show". The viewer list on the right lists names like FRANKLIN89, DANELLJOTT, AHLTERAN, CSHARPFRITZ, LOSDAMIANOSS, ANCIENTCODER, JAMESCOFFMAN, and SHOTCARE. The Twitch overlay at the bottom shows the streamer's name "EdCharbeneau", a viewer count of 10, a "19" badge, and the name "ahlteran".

```
[Inject] LocationService locationService { get; set; }

[Inject] ITripCostPredictionService tripCostService { get; set; }

protected LocationDetails[] Locations;

protected float totalPrice;

protected MyForm form = new MyForm();

public class MyForm
{
    public string SelectedLocation { get; set; }
    public string SelectedDestination { get; set; }
}

protected override void OnInit()
{
    Locations = locationService.GetLocations().ToArray();
    Trip trip = new Trip()
    {
        PassengerCount = 1, //Form
        RateCode = "4", //service
    }
}
```

Blazor StateHasChanged()

edcharbeneau: Hello!

supasniper1: hi

unhipcoder: Hey

ancientcoder: good afternoon

legndairymoooo: Hi Ed. Liked your interview on the MS dev Show

FRANKLIN89 SUB

DANELLJOTT SUB

AHLTERAN SUB

CSHARPFRITZ SUB

LOSDAMIANOSS RESUB X2

ANCIENTCODER SUB

JAMESCOFFMAN SUB

SHOTCARE SUB

EdCharbeneau 10 19 ahlteran

goranhall: 100

# Kasuken on Twitch

The screenshot shows a Twitch stream by the user **KASUKEN**. The main content is a Visual Studio code editor displaying C# code for a web service. The code includes using statements for `System.Collections.Generic`, `System.Linq`, and `System.Threading.Tasks`, followed by a namespace `LyricsFinder.Web.Services` and an interface `ILyricsSearchEngine` with a method `RetrieveLyric(string)`. A dialog box titled "Add New Item - LyricsFinder.Web" is open, showing a list of ASP.NET Core templates. The chat window on the right shows several messages from viewers like **JuergenGutsch**, **MaherJend**, and **SonequaBot**. At the bottom, there is a video player showing "Miami Nights 1984" and "New Tomorrow".

```
2 using System.Collections.Generic;
3 using System.Linq;
4 using System.Threading.Tasks;
5
6 namespace LyricsFinder.Web.Services
7 {
8     0 references | 0 changes | 0 authors, 0 changes
9     interface ILyricsSearchEngine
10     {
11         0 references | 0 changes | 0 authors, 0 changes
12         string RetrieveLyric(string
13     }
14 }
15
```

**Add New Item - LyricsFinder.Web**

Item Name	Template
Class	ASP.NET Core
Interface	ASP.NET Core
Controller Class	ASP.NET Core
API Controller Class	ASP.NET Core
Razor Page	ASP.NET Core
Razor View	ASP.NET Core
Code File	ASP.NET Core
Endorsement File (NET)	ASP.NET Core
Endorsement File (Default)	ASP.NET Core
App Settings File	ASP.NET Core
Resources File	ASP.NET Core
Test File	ASP.NET Core
HTML Page	ASP.NET Core
JavaScript File	ASP.NET Core

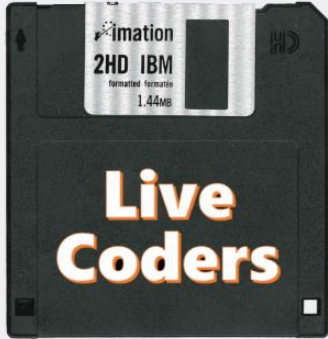
**Chat:**

- JuergenGutsch:** @Kasuken
- MaherJend:** Hey Juergen
- JuergenGutsch:** Sure
- MaherJend:** Dev technologies mainly ASP.NETCore
- JuergenGutsch:** Sure too
- SonequaBot:** Follow me on Instagram: <https://instagram.com/kasuken>
- Kasuken:** !twitter
- MaherJend:** Thanks











**Video Player:** Miami Nights 1984, New Tomorrow




# Live Coders – twitch.tv/team/livecoders

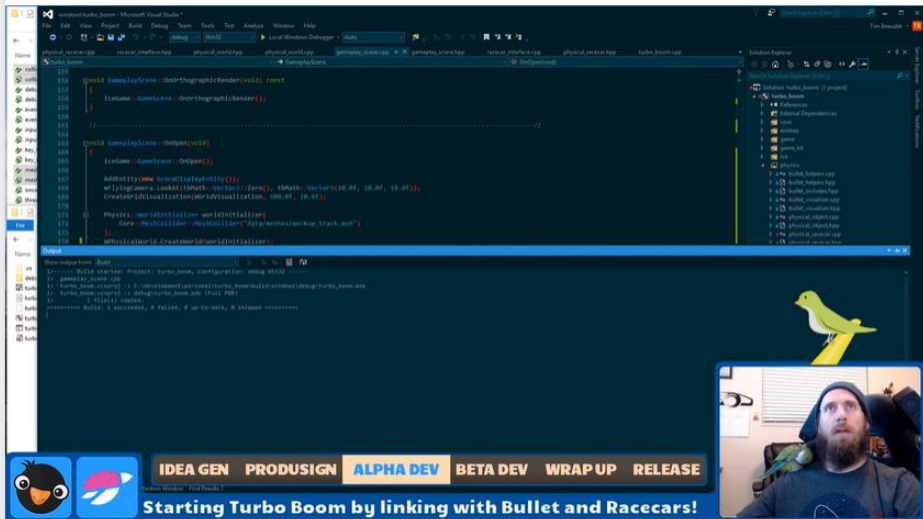


Team Members 61

-  TimBeaudet 35
-  Alca 12
-  JitterTed
-  davidortinau
-  Syropian
-  cldubya
-  DrMikachu
-  かちい
-  LizeLive
-  FullStackLive

 **TimBeaudet**  
35 2,775 105,231

Info Subscribe



**0560 A new project begins, C++ racing games!! #gamedev #indiedev**  
Category: Science & Technology • Team: Live Coders

Share

## Live Coders

An outgoing and enthusiastic group of friendly channels that write code, teach about technology, and promote the technical community.

All streamers in this team are:

1. Affiliate or Partner
2. Technology Enthusiasts
3. Encouraging and happy to engage the chat room
4. Not a brand, but a REAL person

More information can be found at <https://github.com/livecoders/home>





# Emanuele Bartolesi



//dev.to/kasuken



@kasuken



//twitch.tv/kasuken



emanueleb@outlook.com



//github.com/kasuken



@kasuken





# Grazie!

- Il materiale sarà online nei prossimi giorni su <http://www.communitydays.it>