

# .NET Conf

## Focus on MAUI

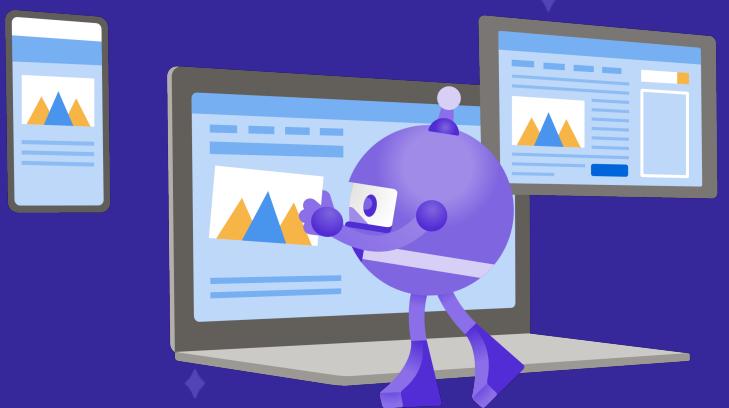
August 9, 2022

[focus.dotnetconf.net](https://focus.dotnetconf.net)

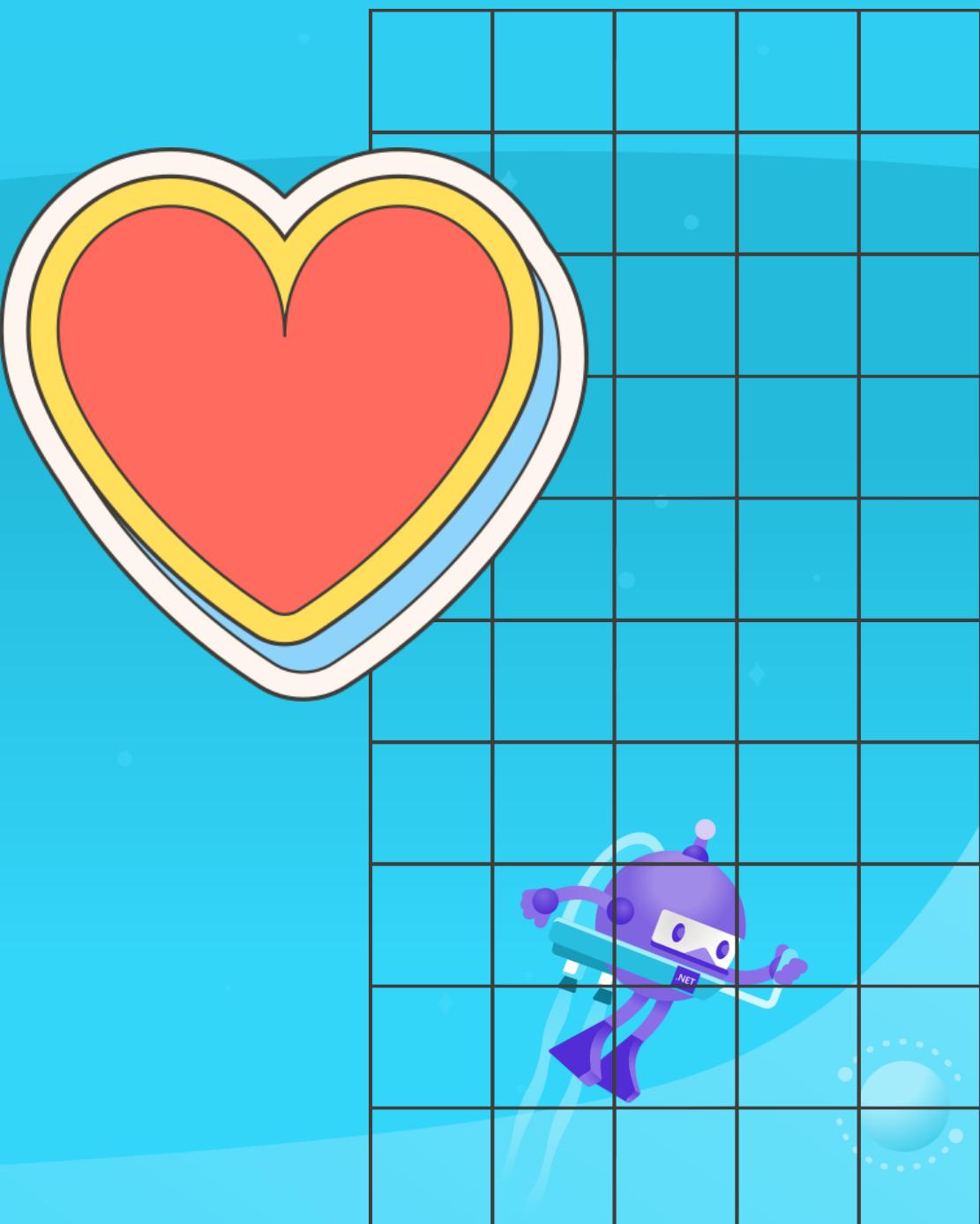


# Upgrading your JS Apps with .NET MAUI

@AlyssaNicoll



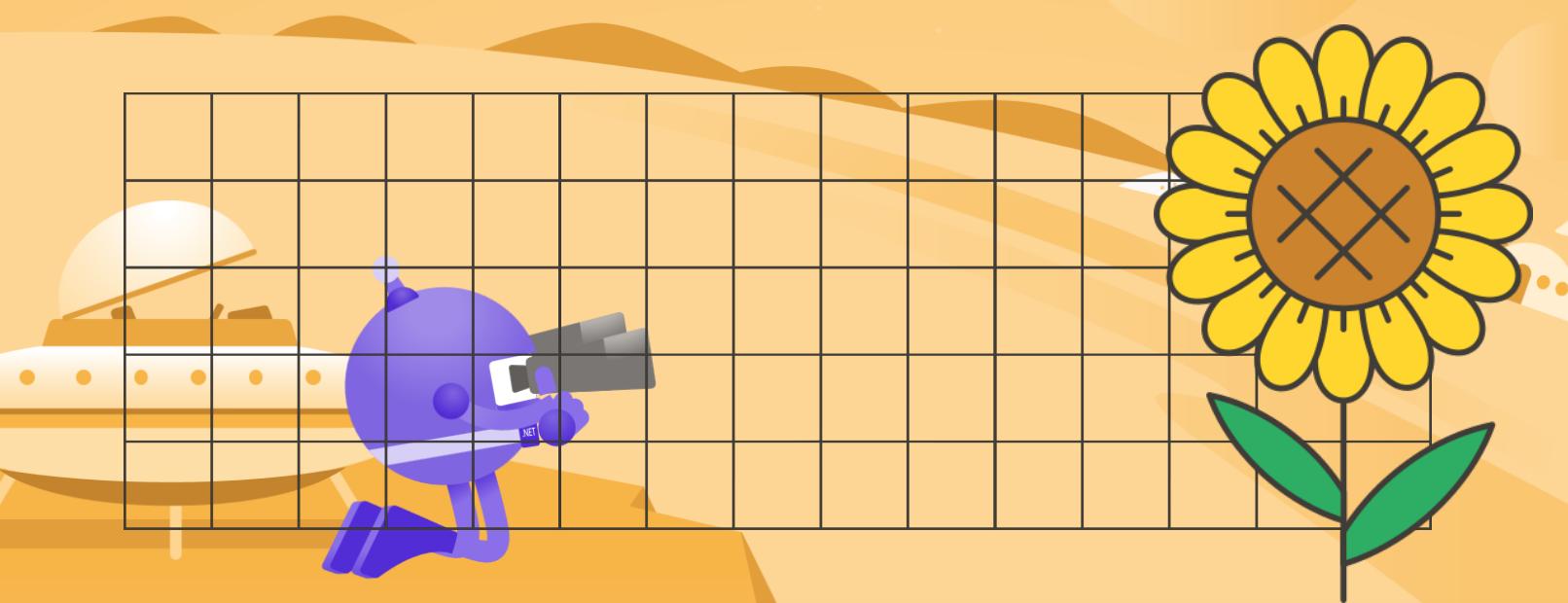
# The Story



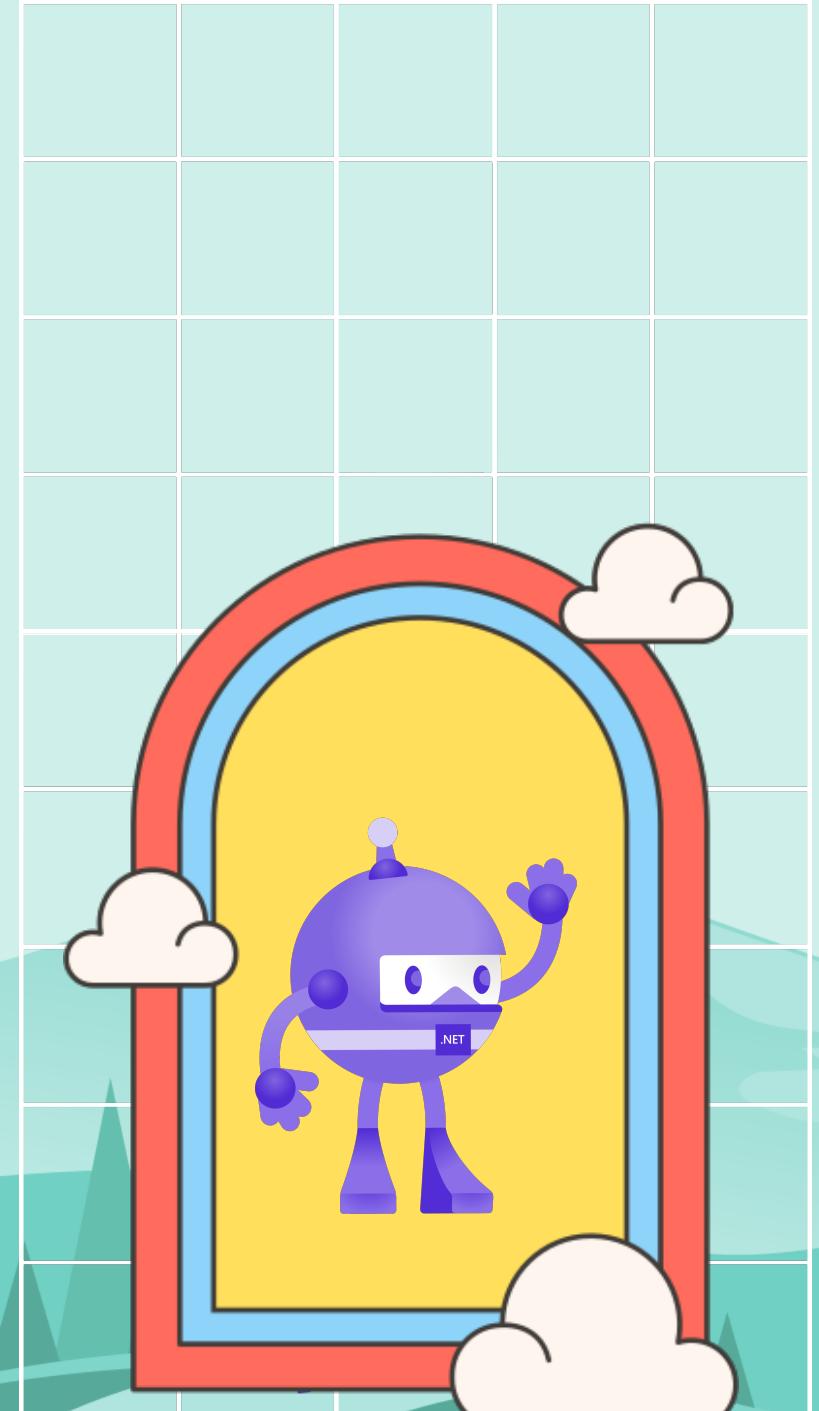


# From Psychology to Development.

From Angular and Web Dev to .NET and beyond.

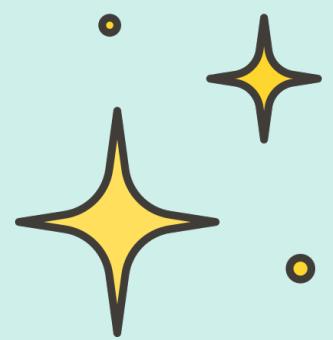


@ALYSSANICOLL



# Angular GDE

I got started with Angular and Web Dev.



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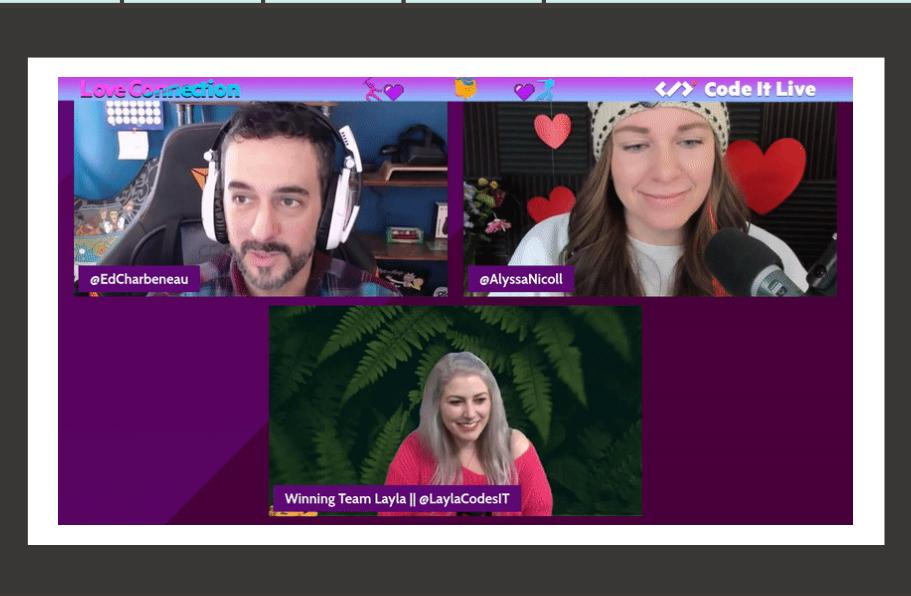
# DevRel at Progress



Found my sweet spot between dev, speaking,  
teaching, & travel.



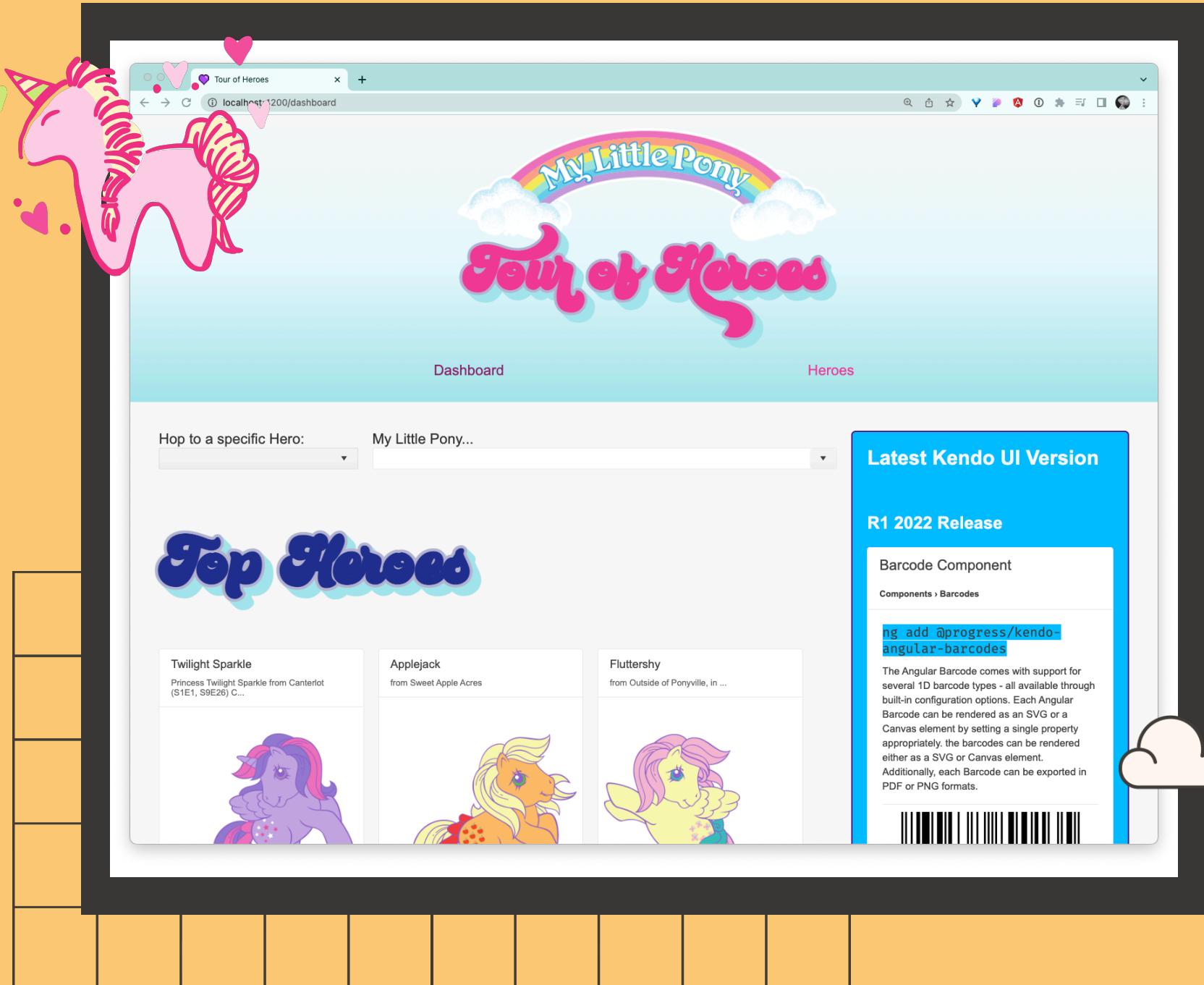
I found my people.



# Friends share .NET

Through my incredible Progress-fam, I started learning about .NET.





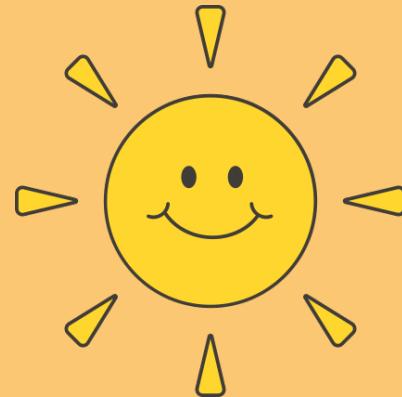
# Tour of Ponies

The Tour of Heroes, Pony-fied!

@ALYSSANICL

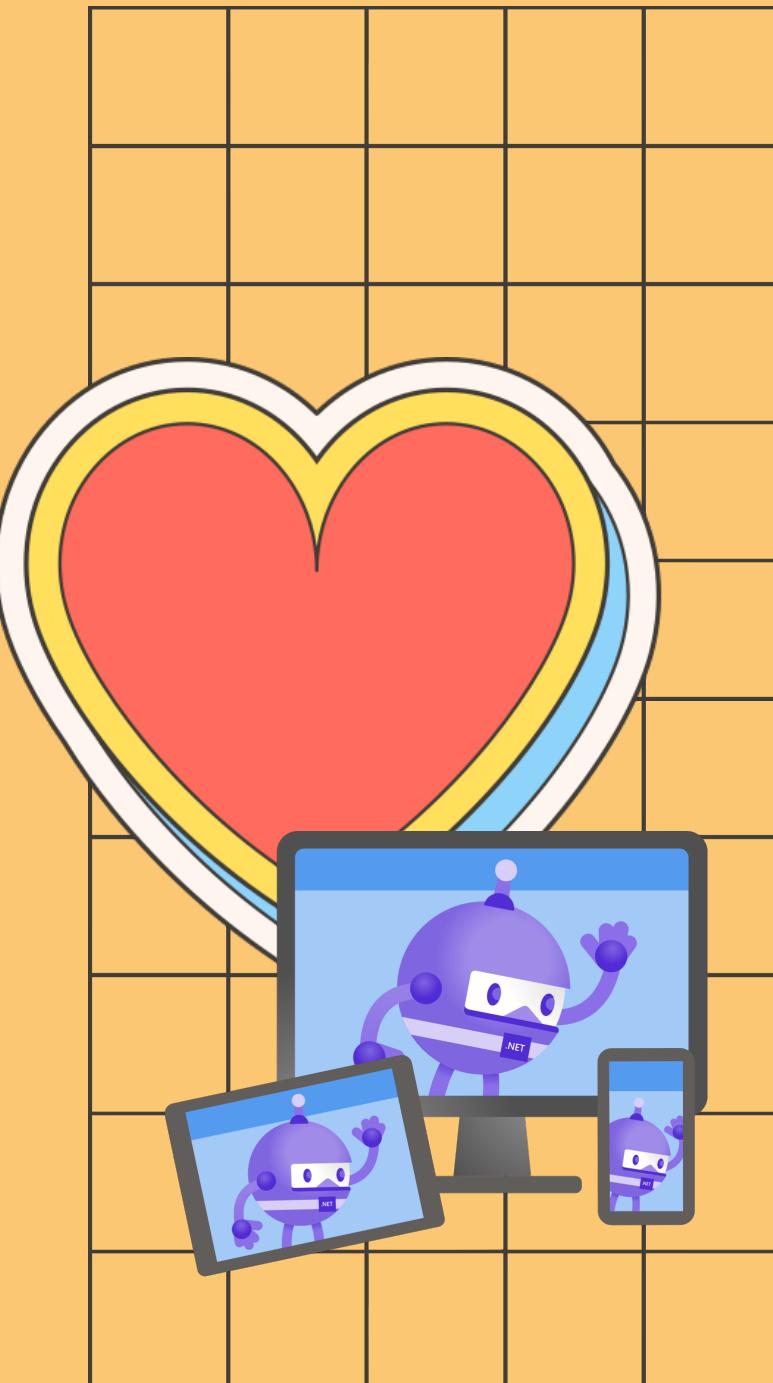


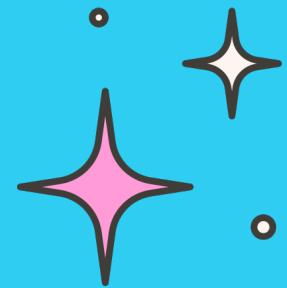
**Wait, so ponies not only on  
Web, but on any device?!**



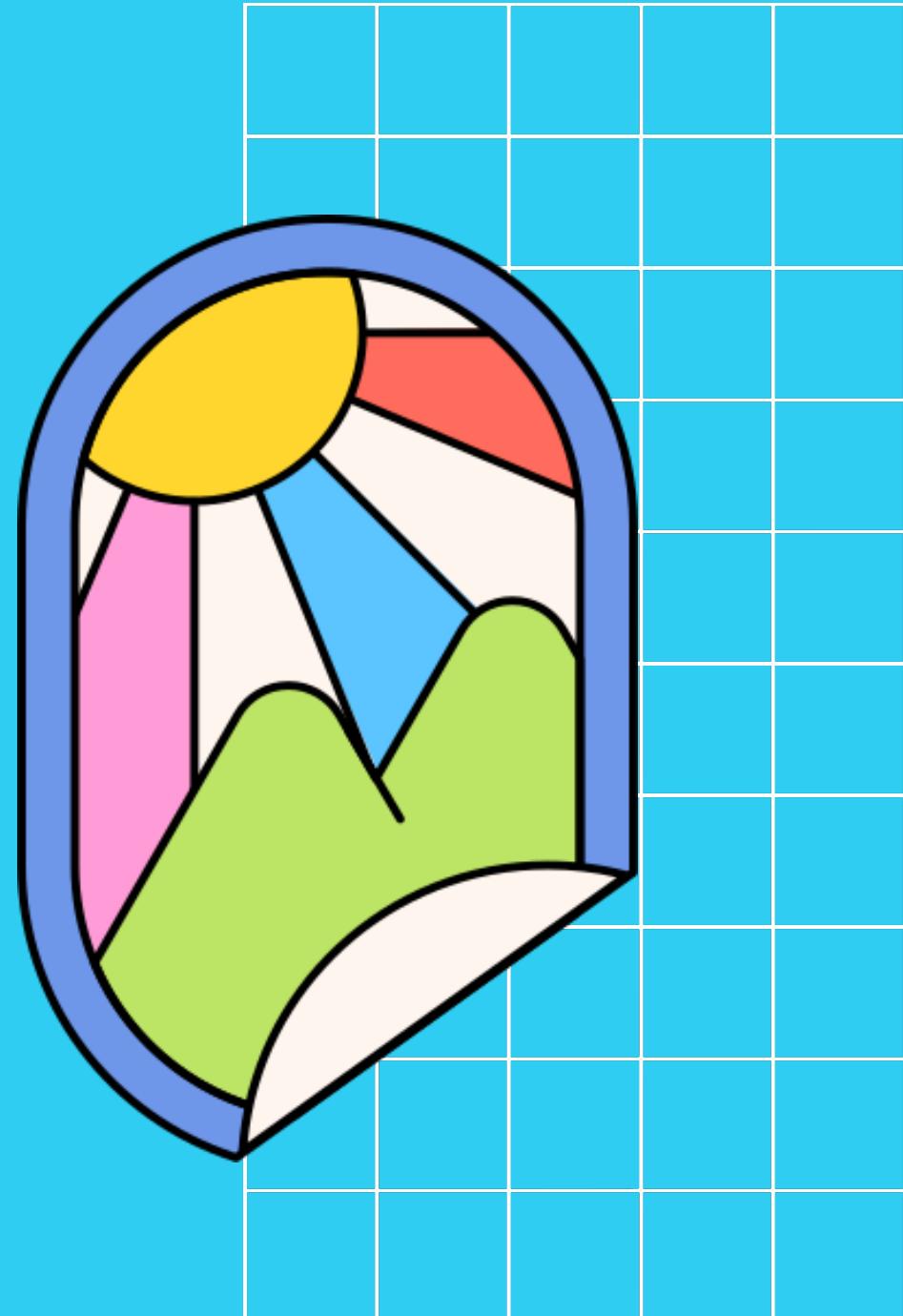
# The Steps

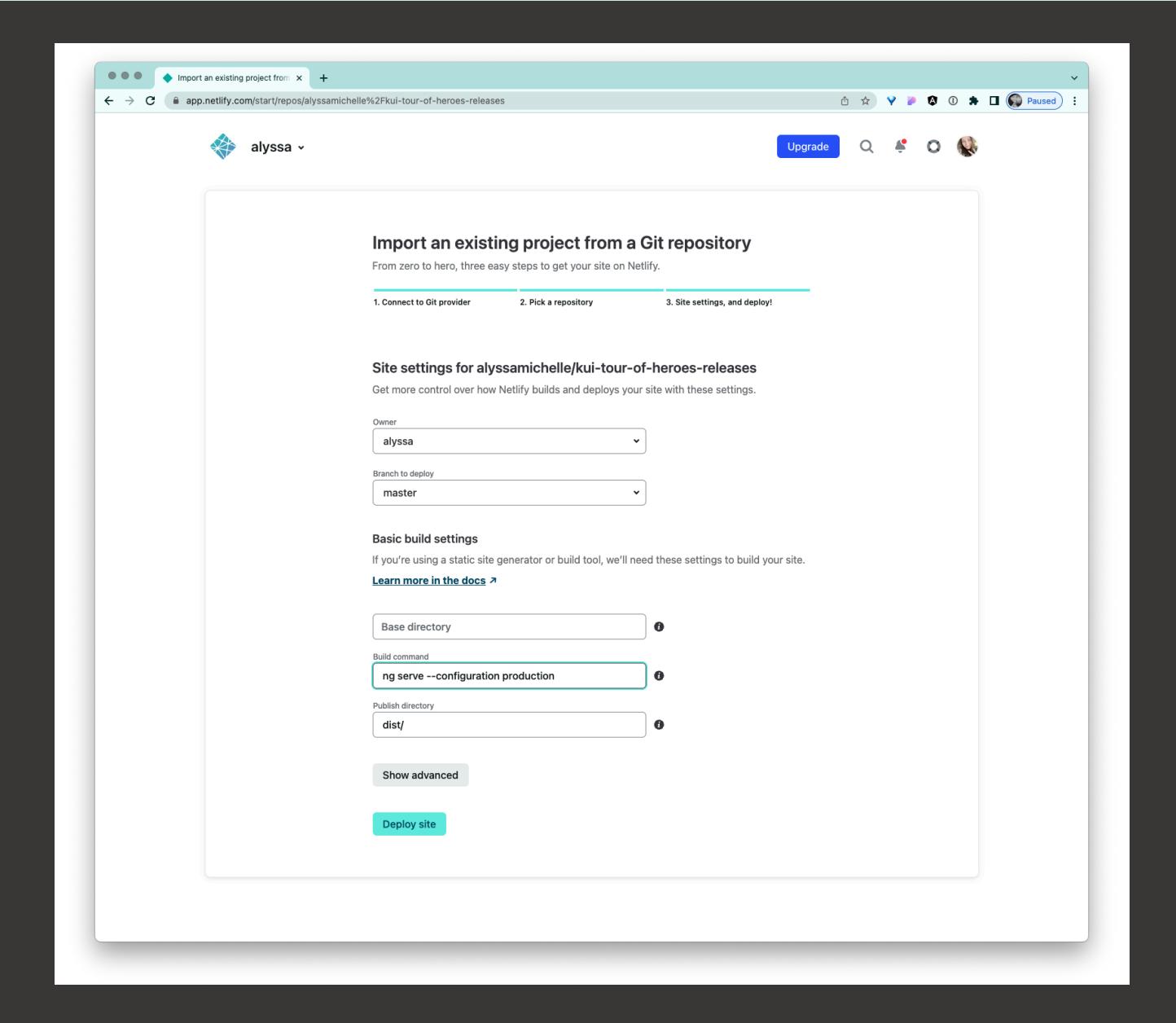
So here is how this JS Girl learned how to deploy anywhere with .NET's latest cool-kid, MAUI





# Deploying on Web





# Open a Provider

(I used Netlify  
#notsponsoredbutwouldntmind).

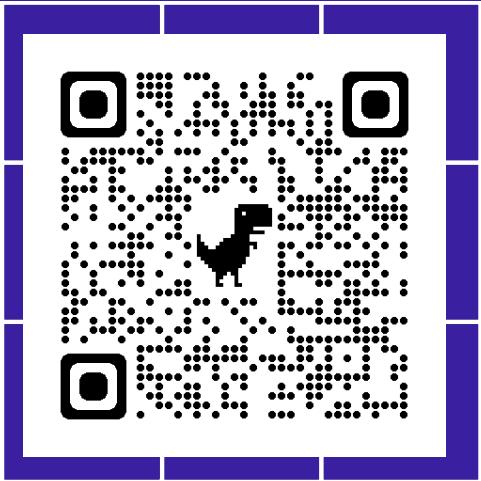
@ALYSSANICL



# Voila!

We are live at this absolutely stunning and no-need-to-customize-it domain:

[HTTPS://6261e2ffdcc9ce6db3cd7372--stellar-mermaid-bd50d9.netlify.app](https://6261e2ffdcc9ce6db3cd7372--stellar-mermaid-bd50d9.netlify.app)



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My Little Pony

Tour of Heroes

Now to Deploy  
EVERYWHERE  
ELSE



# Responsive Styles

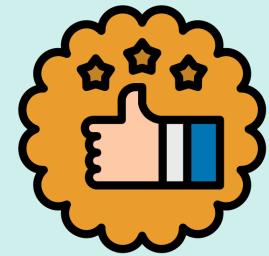
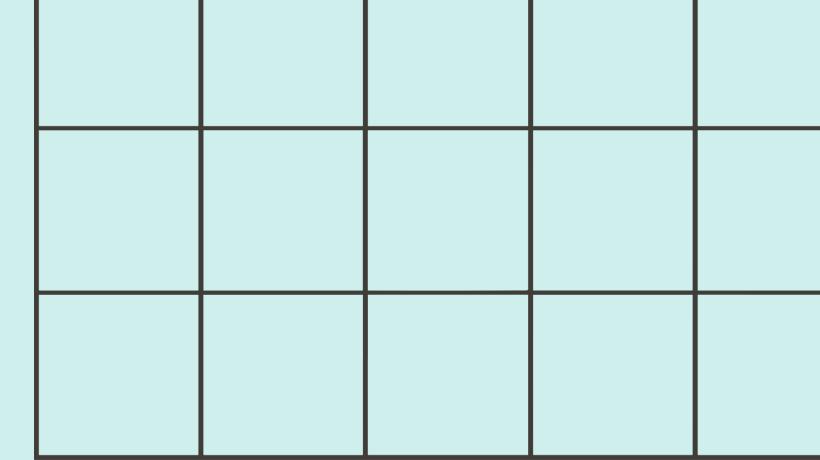
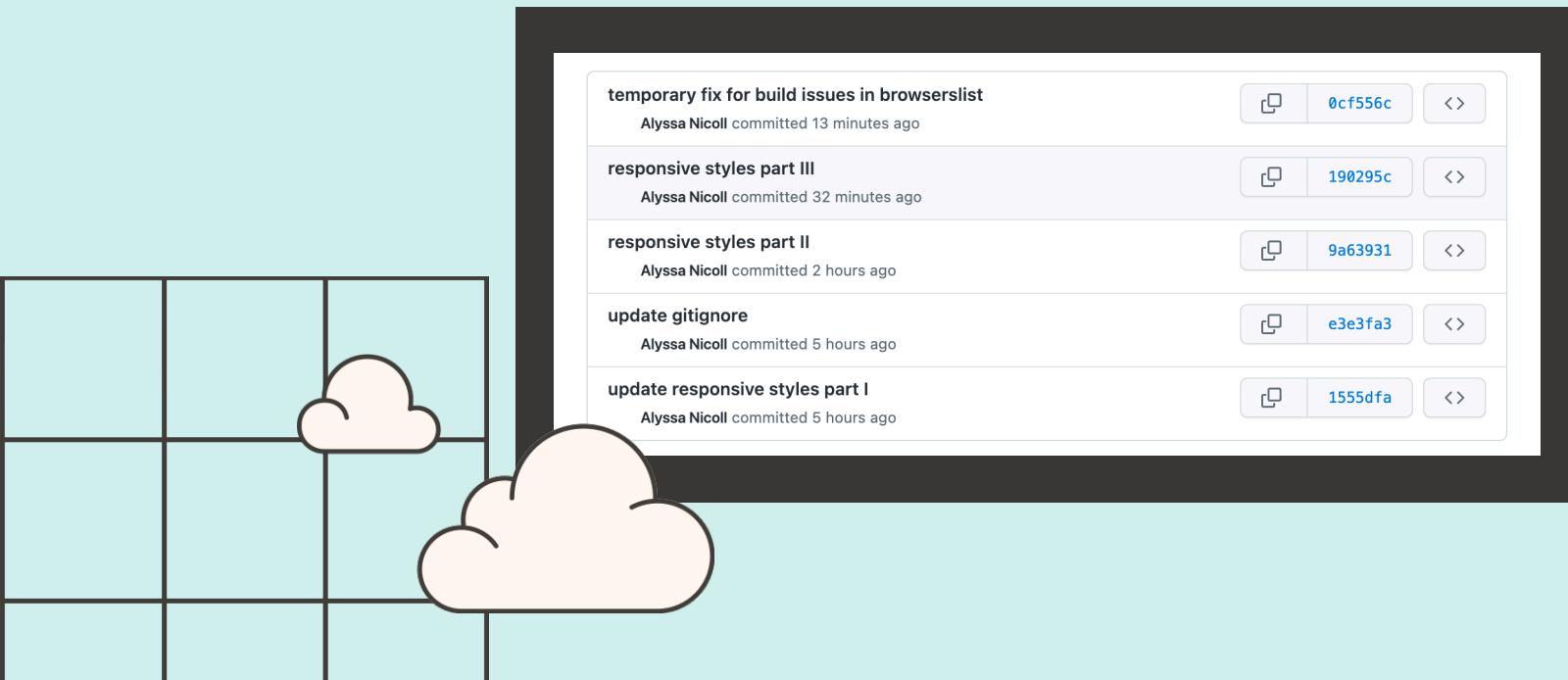
Before we go on to the MAUI steps, we must do ONE LAST THING (this is very important).



Now, if you are use to doing Mobile development (and only Mobile) then creating responsive designs for desktop and other odd sizes might not have occurred to you thus far. As web devs, we are encouraged to think responsively from the get-go, but even I had to make a few style adjustments once I saw how my web app looked when deployed on android!



# Styles for all Screen Sizes



Responsive-up your styles a couple times before taking the next few steps.

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# Re spons ive Ponie s



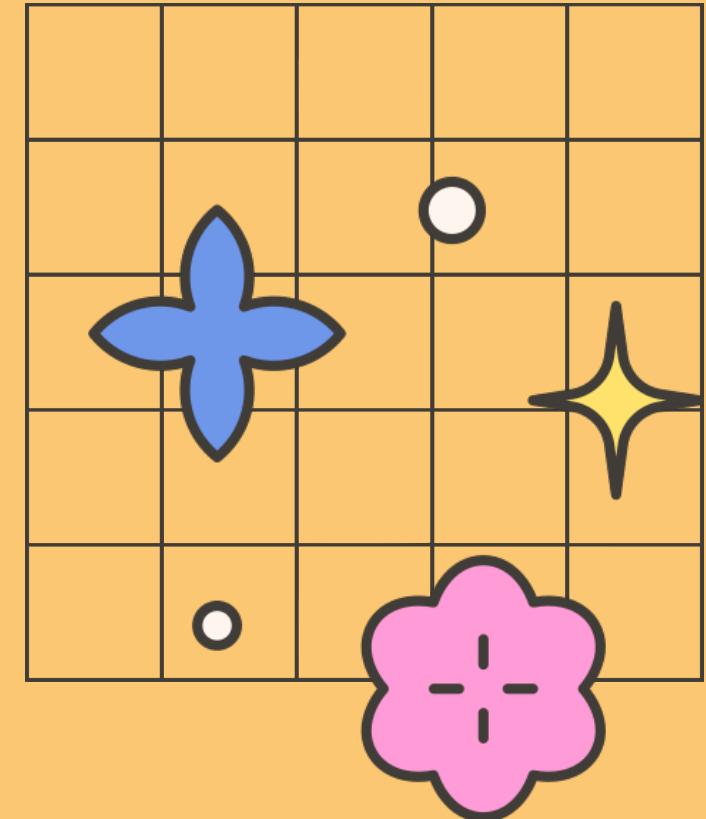
The screenshot shows a web application interface for "My Little Pony: Toy of Heroes". At the top, there's a navigation bar with links for History, Bookmarks, Profiles, Tab, Window, and Help. Below the navigation is a search bar with placeholder text "Hop to a specific Hero: My Little Pony...". The main content area features a "Top Heroes" section with a list of six ponies: Twilight Sparkle, Applejack, Fluttershy, Rarity, Pinkie Pie, and Rainbow Dash. Each pony has a small profile picture and some descriptive text below it. To the right of the hero list is a sidebar titled "Latest Kendo UI Version" which displays information about the R1 2022 Release, specifically the Barcode Component. The sidebar includes a barcode example and a QR code component.

That's better. Now our ponies look great, no matter who is viewing them on WHAT.

My Little Pony

Tour of Heroes

Now to Deploy  
EVERYWHERE  
ELSE

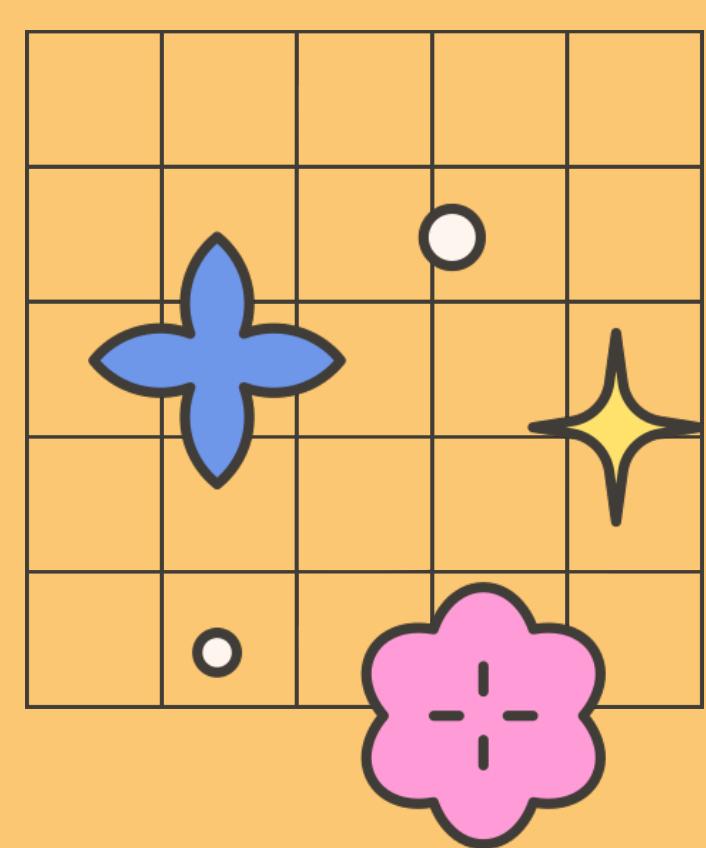


# MAUI on Mac

★ Install .NET

★ Install Workloads

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# MAUI on Mac



Install .NET

<https://docs.microsoft.com/en-us/dotnet/core/install/macos>

Install .NET on macOS

Article • 12/04/2021 • 7 minutes to read • 7 contributors

Install on macOS

The latest version of .NET is 6.0.

Download .NET Core

Supported releases

The following table is a list of currently supported .NET releases and the versions of macOS they're supported on.

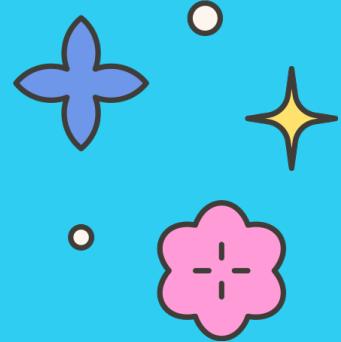


Install Workloads

`dotnet workload install maui`

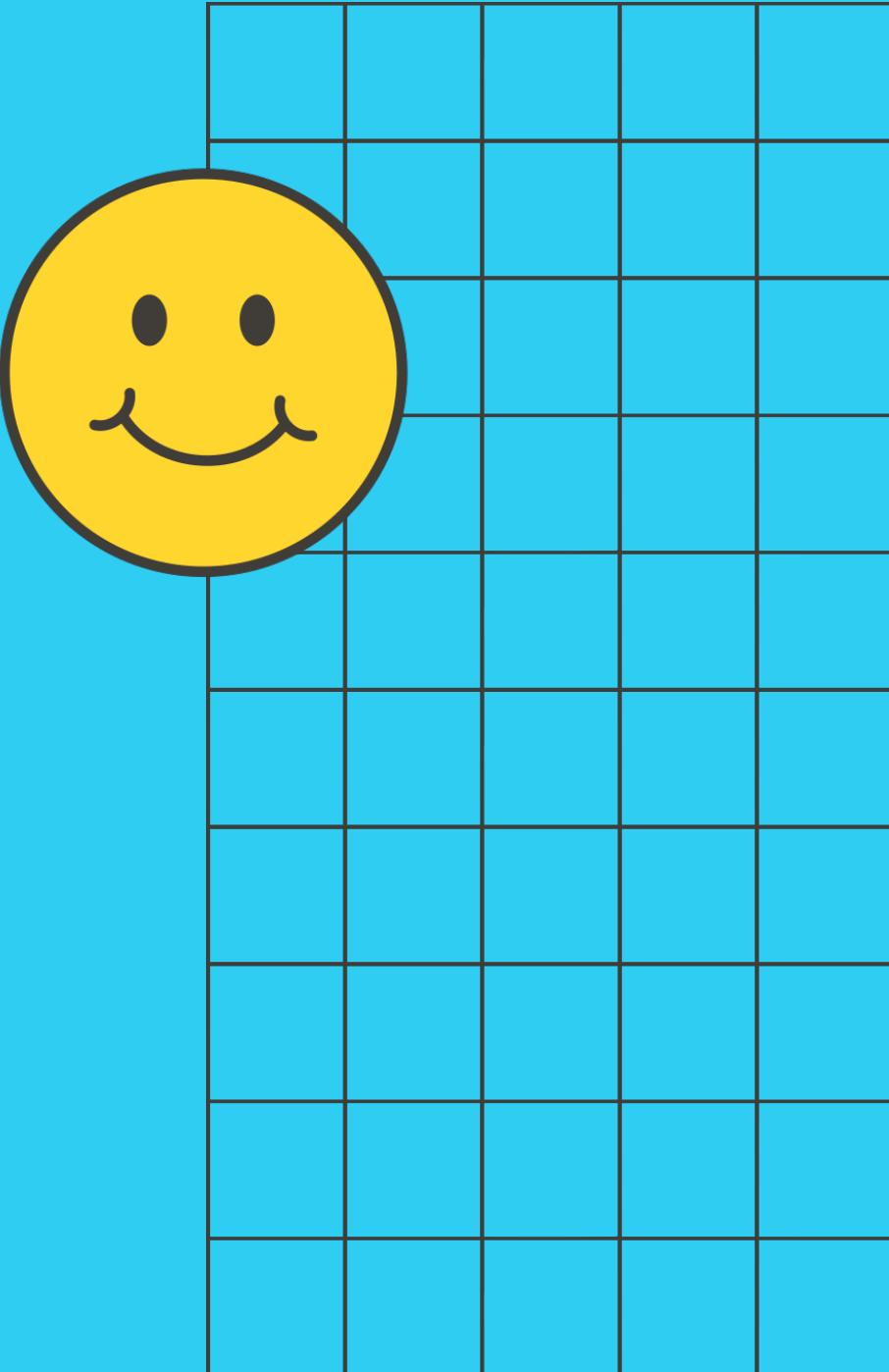
`dotnet workload install maui`

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# Web App in MAUI

- Create new dotnet maui-blazor
- Delete blazor component bits
- Insert built JS app in wwwroot
- Build/Run dotnet app
- Reap MASSIVE Benefits

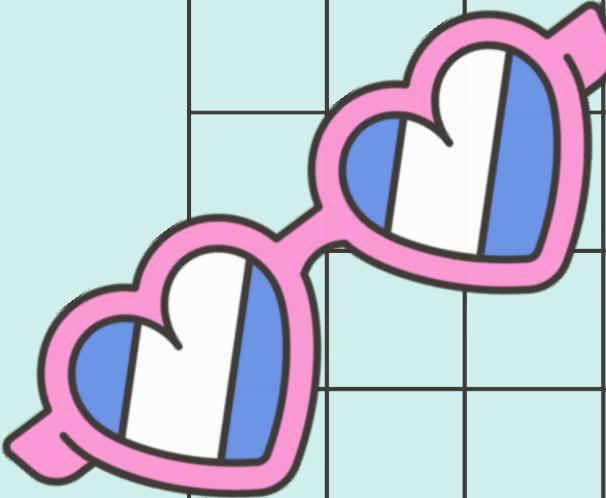




# Doing it live.

As advised by no-one, we will now be putting these steps to the test, live!

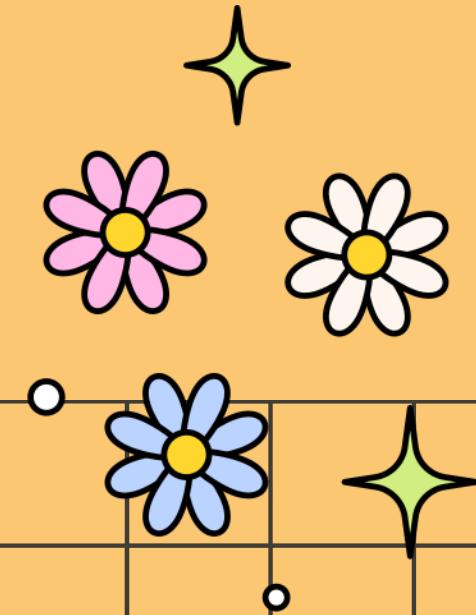
Safety glasses are recommended.

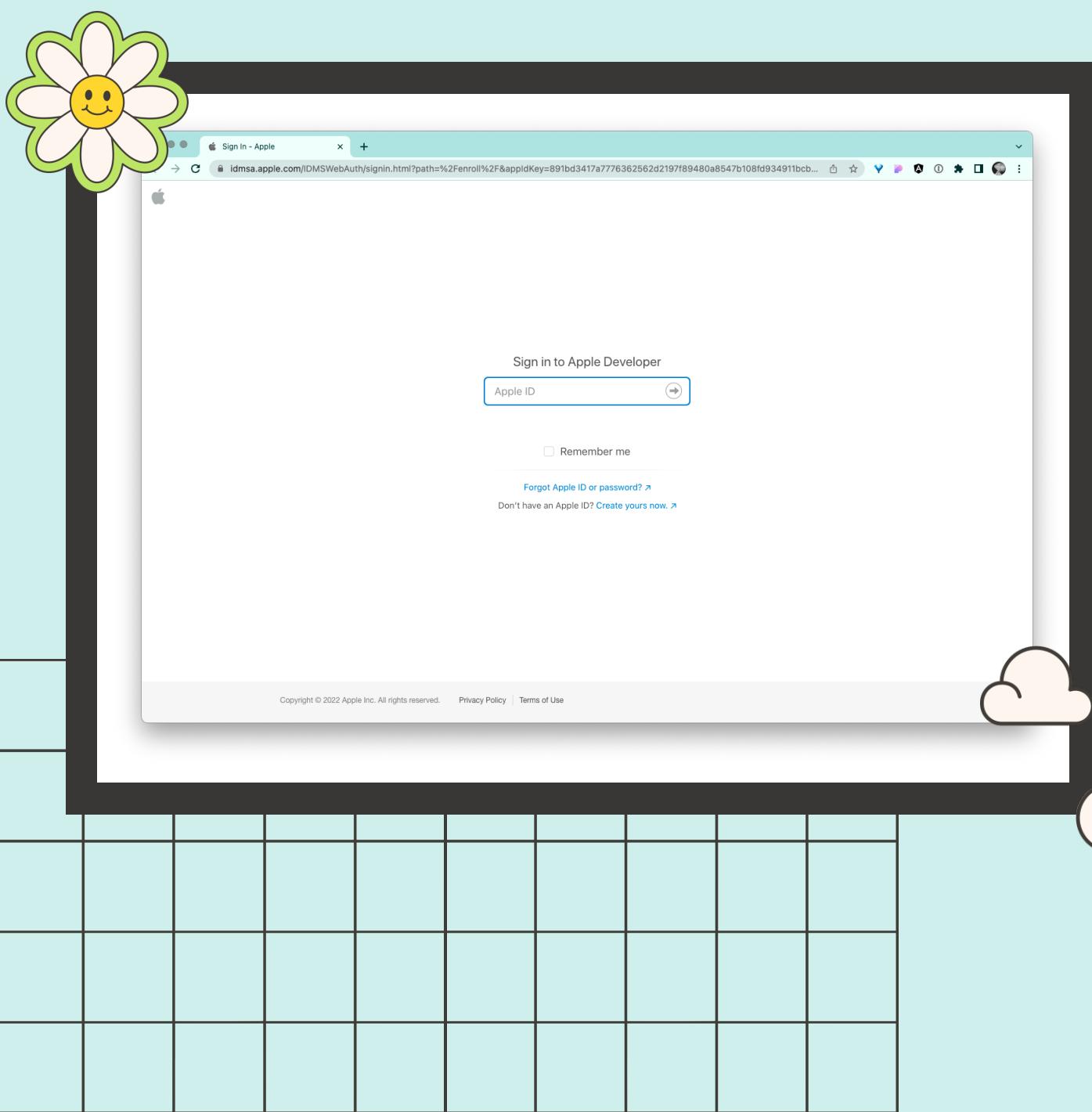




# Deploying

I thought I would take this one step further, since many of you might not have seen this side of the deployment fence before. So here goes nothin'!





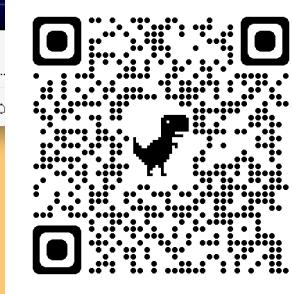
# App Store

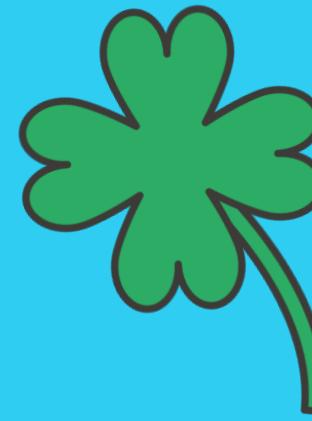
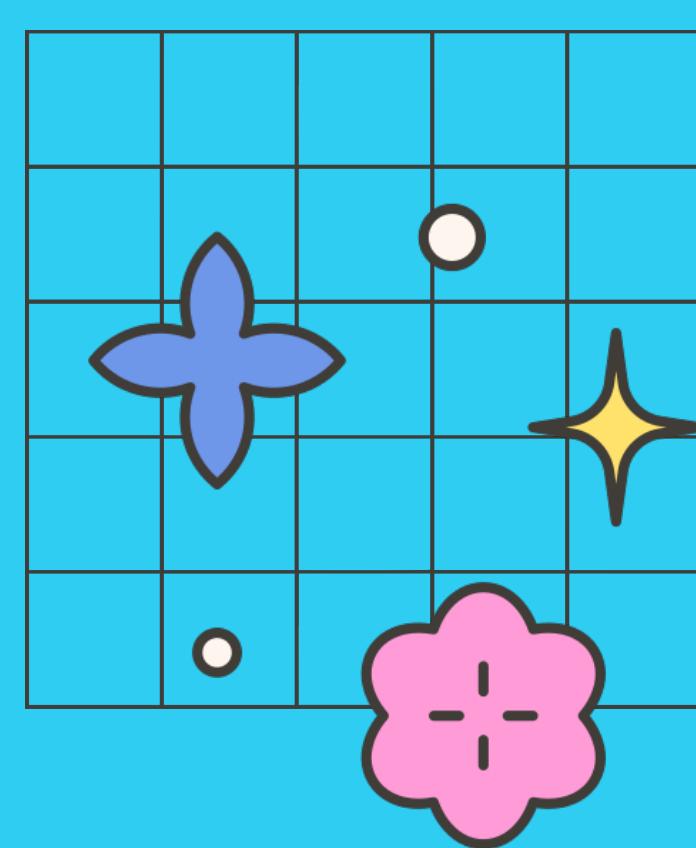
→ Oh yeah, we're going all the way with this demo!  
Our ponies must be seen on every device!

<https://www.youtube.com/c/GeraldVersluis>



# King Gerald's Guide to Success





# App Store Deployments

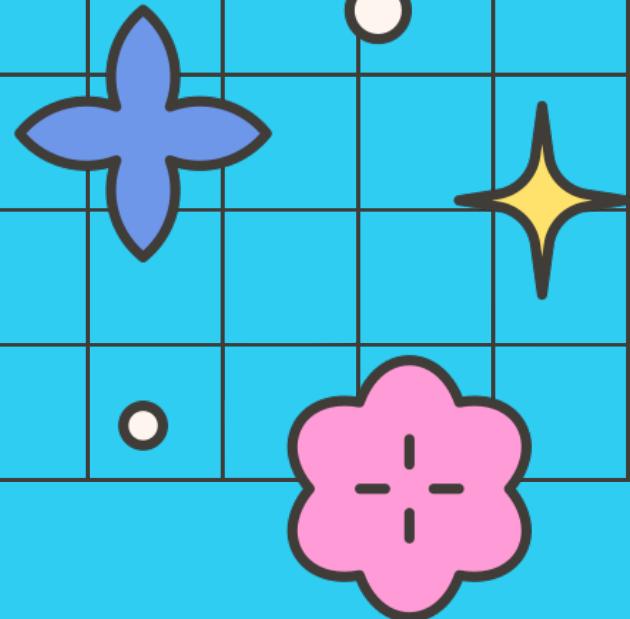
As experienced by this girl.

❖ developer.apple.com

❖ Transporter

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# App Store Deployments



❖ developer.apple.com

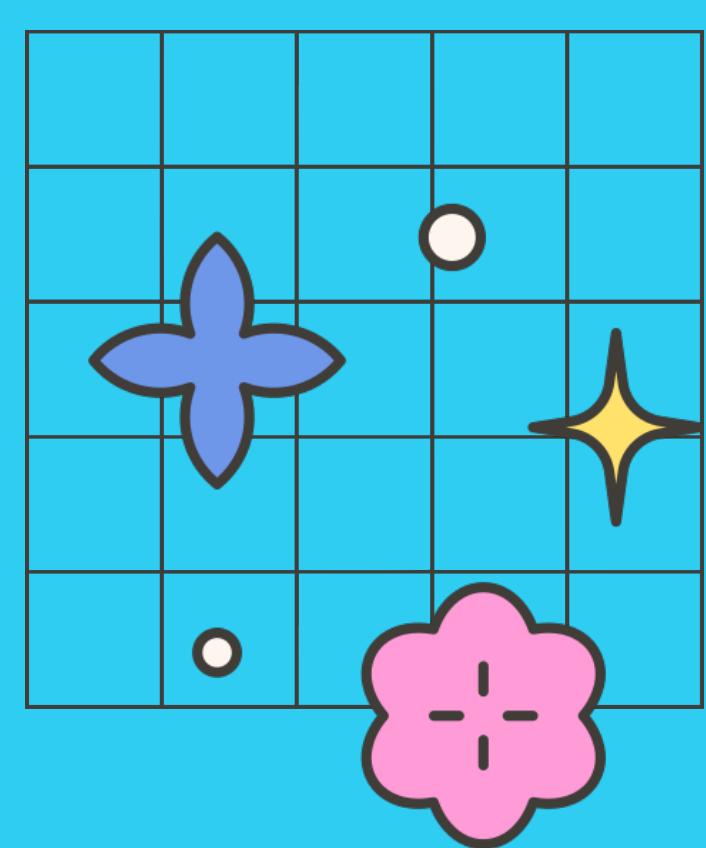
The screenshot shows the 'Identifiers' section of the Apple Developer portal. It lists an identifier for an app named 'Angular and Kendo UI App Deployed with dotnet ...' with the identifier 'com.alyssanicoll.tour-of-ponies'. Other sections visible include Certificates, Devices, Profiles, Keys, and More.

❖ Transporter

The screenshot shows the 'Delivered' tab in the Transporter app. It lists two IPA files for an app named 'Tour of Ponies': one version 1.1 (1620598813) delivered on April 23, 2022, at 12:50 PM, and another version 1.0 (1) (1620598813) delivered on April 22, 2022, at 2:41 PM. A large yellow arrow points from the Transporter interface down towards a red heart containing the letters 'IPA'.

Seriously, just go watch Gerald's video.  
His walkthrough guide is killer.

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appstoreconnect.apple.com

The screenshot shows the 'App Information' section of the App Store Connect interface for the 'Tour of Ponies' app. The app is listed as an 'iOS App' with version 1.1 'Ready for Review'. The 'macOS App' section shows version 1.0 'Prepare for Submission'. The 'General' tab is selected, displaying the app's name ('Tour of Ponies'), subtitle (''), and category ('Reference' under 'Education'). Other tabs include 'App Information', 'Pricing and Availability', 'App Privacy', 'Ratings and Reviews', 'Version History', and 'App Review (1)'. The 'Features' section lists 'In-App Purchases', 'App Store Promotions', 'Custom Product Pages', 'In-App Events', and 'Product Page Optimization'. The 'Additional Information' section includes links to 'View on App Store', 'Edit User Access', and 'Remove App'.



hiccupss >>>

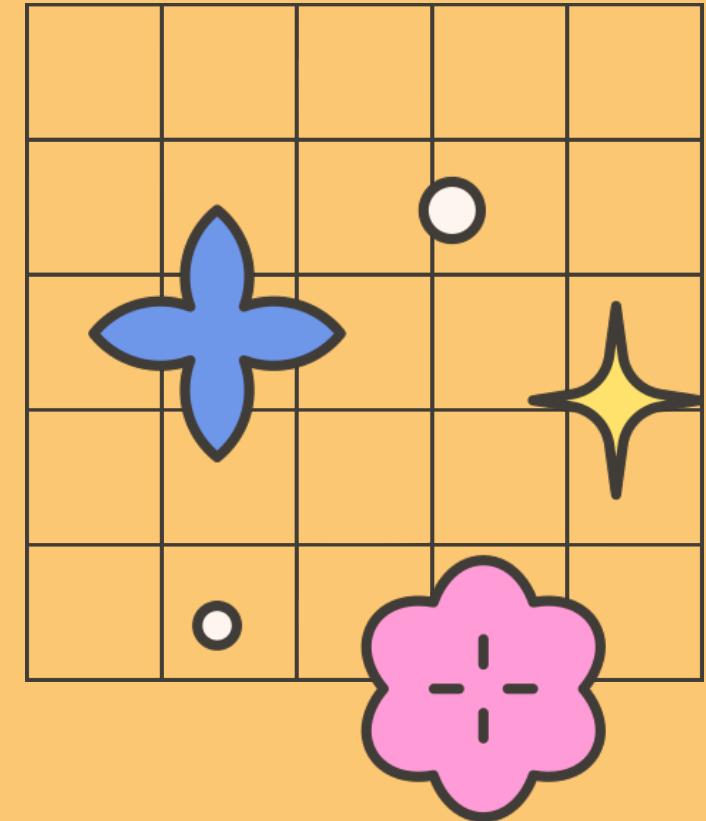
Privacy Policy \*

Screen Shots

Rights to First Born

First Rejection

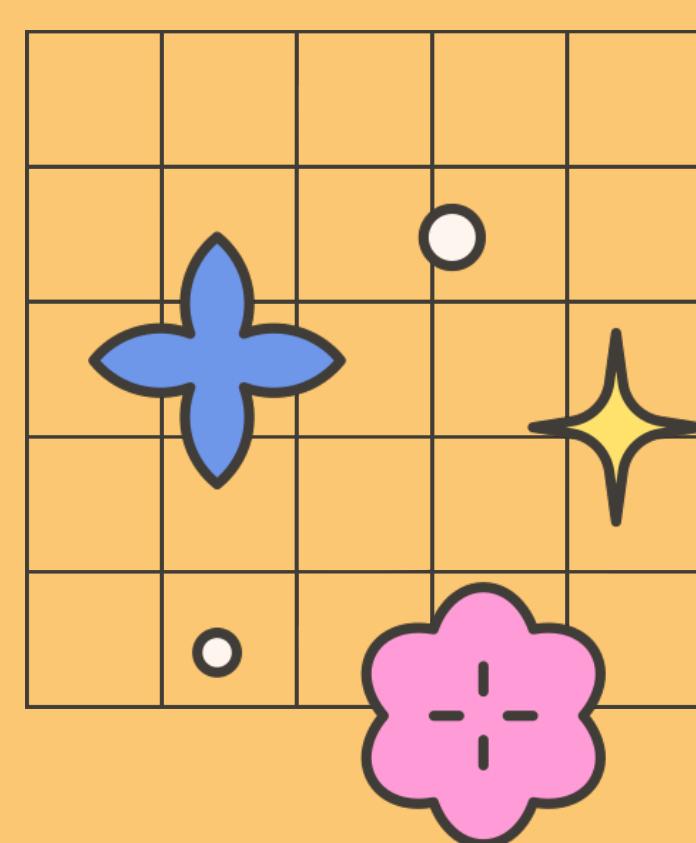
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# Android Deployments

A small bit easier, but not by much.

❖ [developer.android.com/studio/publish](https://developer.android.com/studio/publish)



# Android Deployments

A small bit easier, but not by much.

❖ [developer.android.com/studio/publish](https://developer.android.com/studio/publish)

**Set up your app**

Provide information about your app and set up your store listing

Let us know about the content of your app, and manage how it is organized and presented on Google Play

9 of 10 complete

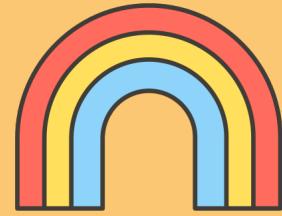
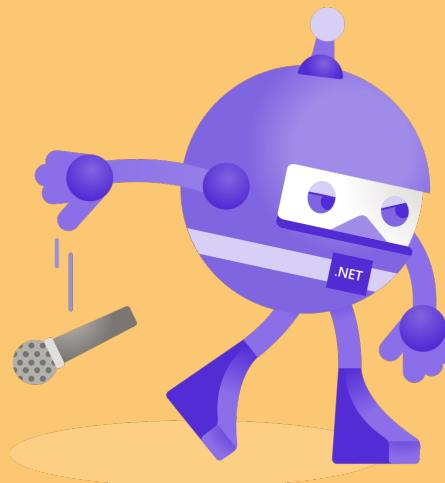
LET US KNOW ABOUT THE CONTENT OF YOUR APP

- ✓ Set privacy policy
- ✓ App access
- ✓ Ads
- ✓ Content rating
- ✓ Target audience
- ✓ News apps
- ✓ COVID-19 contact tracing and status apps
- ✓ Data safety

MANAGE HOW YOUR APP IS ORGANIZED AND PRESENTED

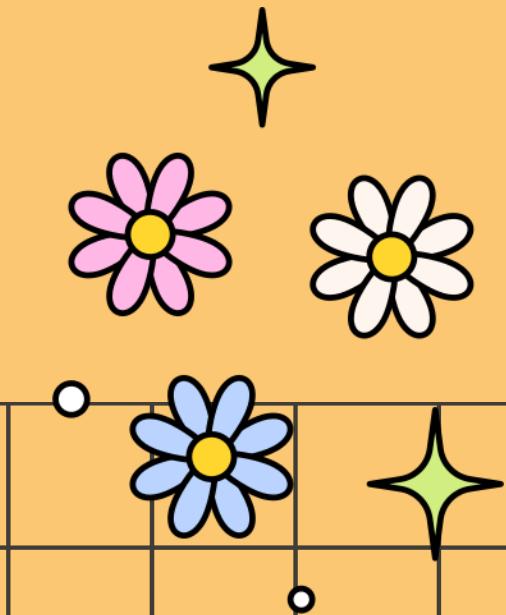
- ✓ Select an app category and provide contact details
- Set up your store listing >

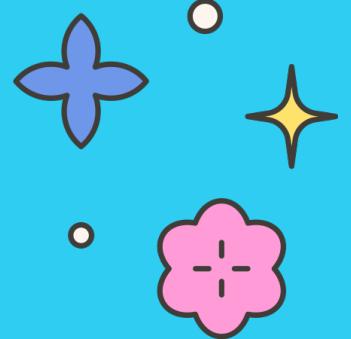
@ALYSSANICL



# Other Options?

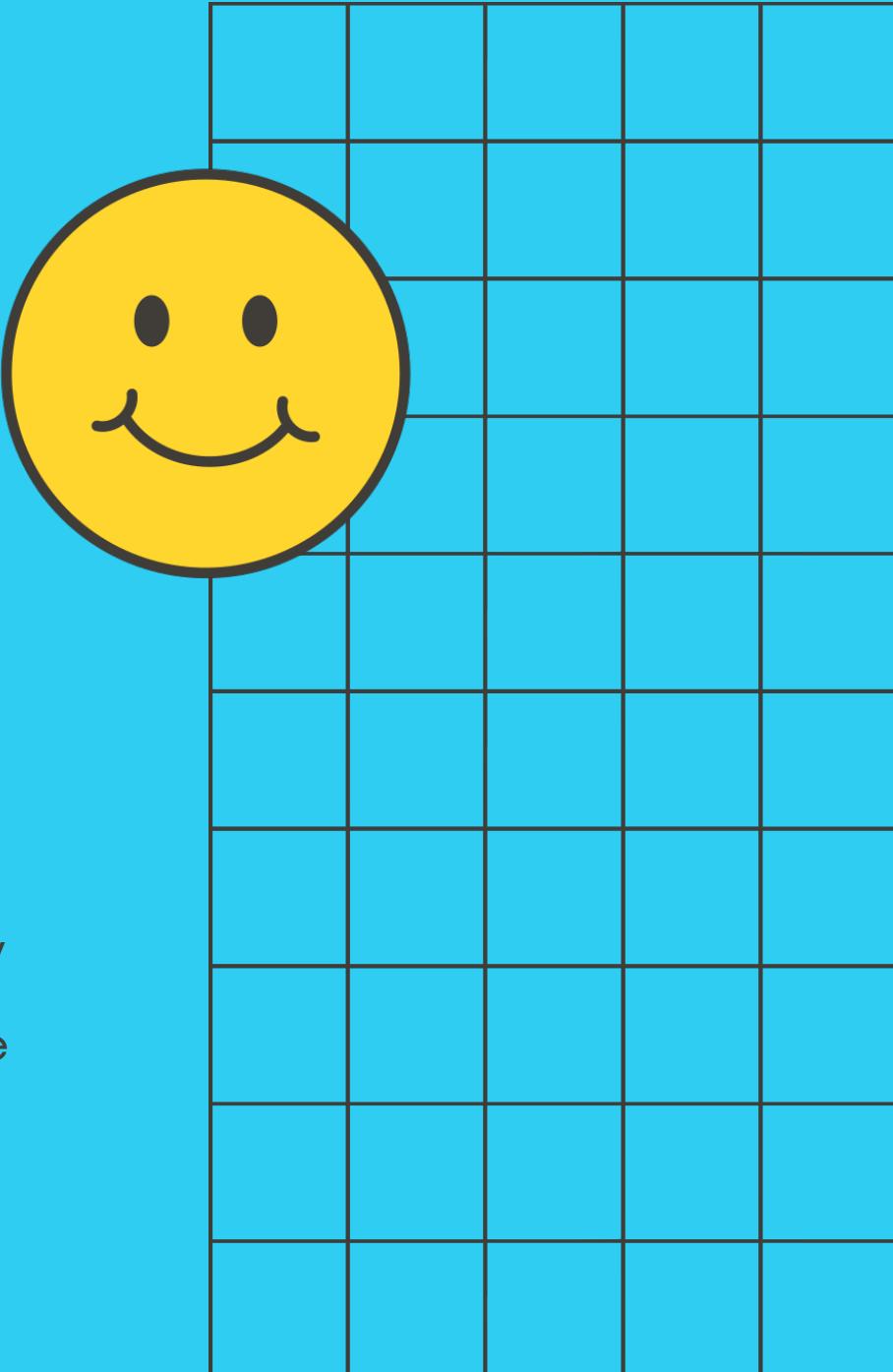
Some have brought it to my attention that other options (like electron, Universal, or PWAs) exist. So let's talk about it.

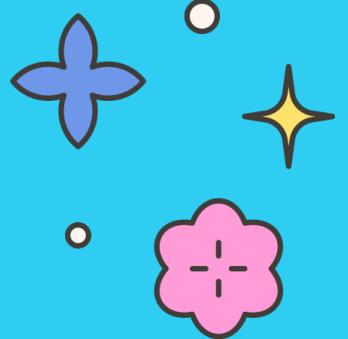




# Why Not PWA

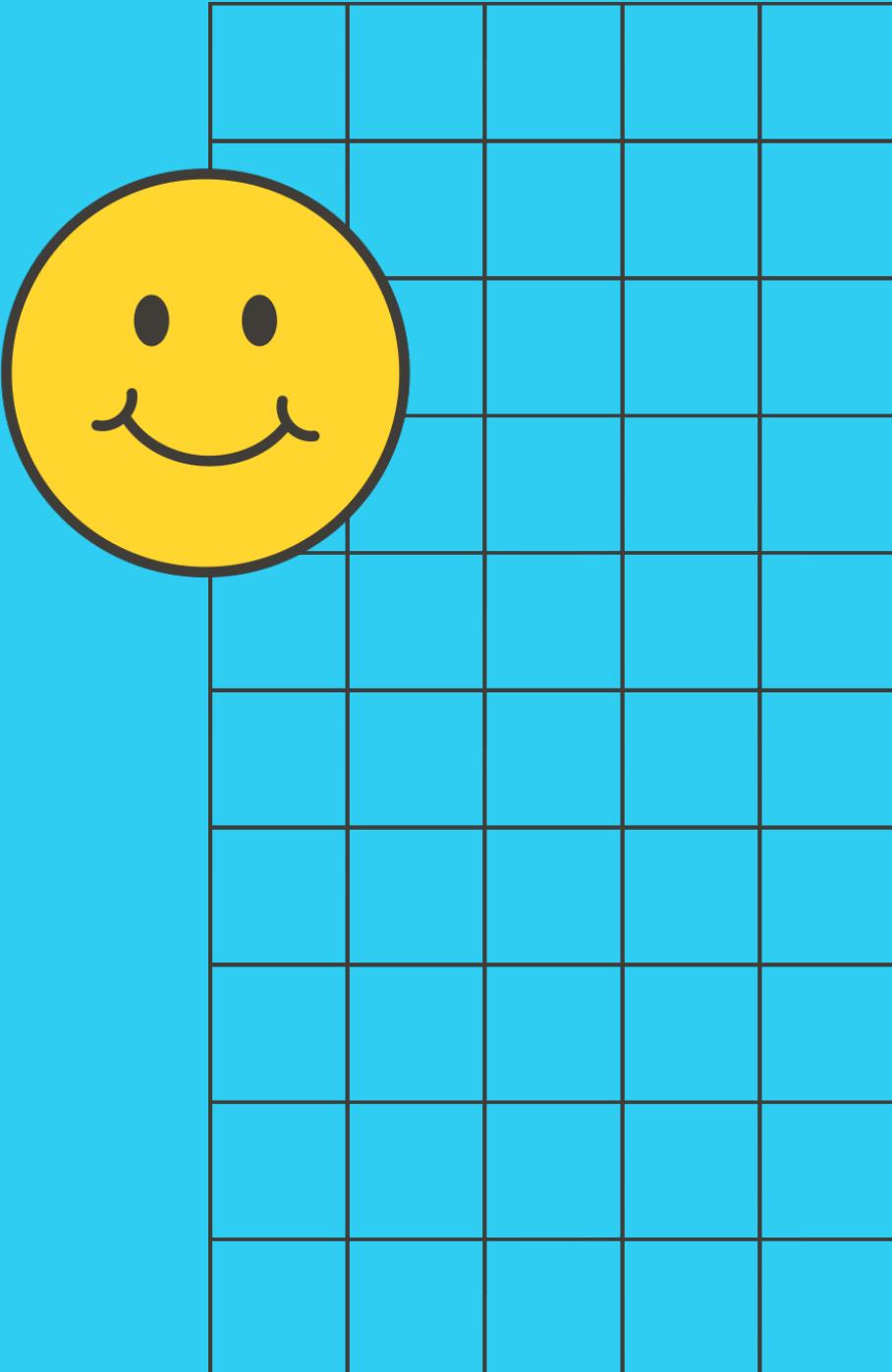
Native apps are a better option if you would like to have a more credible brand. A published app to a mobile app store gives this sense of reliability and there are additional security features (as seen by the publishing steps before) that enforce that reputation. There are also smartphone features that you might want to utilize that PWAs just won't have access to.

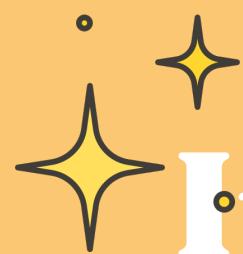




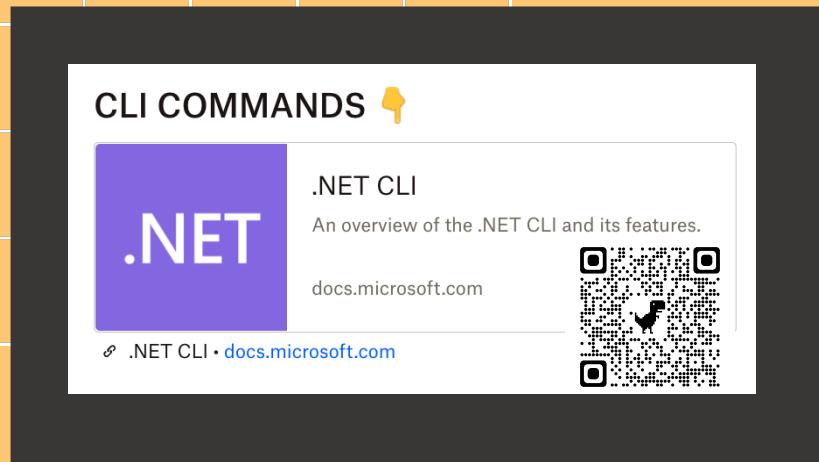
# Why Not PWA

- Performance: Native app is better
- Functionality & Interaction with Hardware
  - Push Notifications, Camera Access, Geofencing, Mobile Payment, Interact with Other Apps, Proximity Sensor, Ambient Light Detection, Smart Lock, and more!





# Important Bits



A screenshot of a presentation slide showing the ".NET CLI COMMANDS" section. It features a purple ".NET" logo on the left, followed by the text ".NET CLI", a brief description "An overview of the .NET CLI and its features.", and a link "docs.microsoft.com". To the right is a QR code. The slide has a dark background with a white grid pattern on the left side.

## Publishing .NET MAUI for Production

```
dotnet publish -f net6.0-ios -c:Release
```

When new workloads come out (every month, 15th-ish)

```
sudo dotnet workload update
```

## Creating a new .NET MAUI App

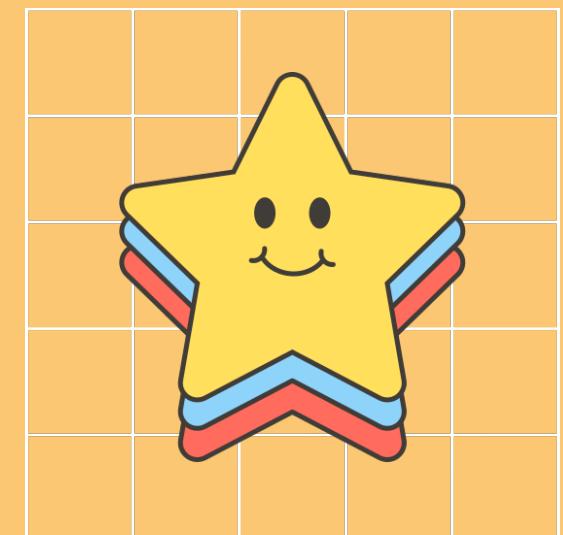
```
dotnet new maui -nDirectoryName
```

## Building and Running .NET MAUI App

```
dotnet build -t:Run -f net6.0-android
```

```
dotnet build -t:Run -f net6.0-ios
```

```
dotnet build -t:Run -f net6.0-maccatalyst
```





# Thank

# You

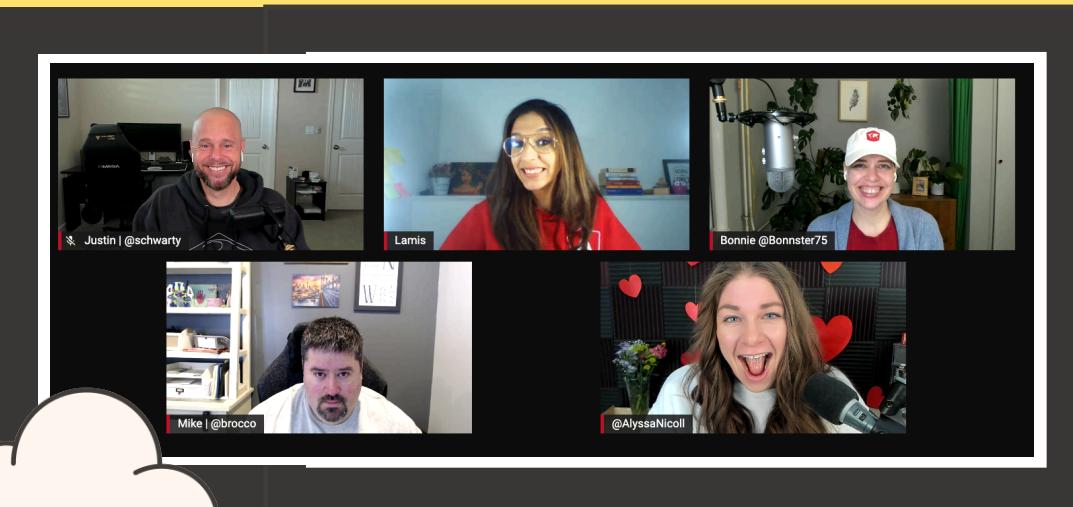
Hit me up on Twitter #dotNETConf

@ALYSSANICOL





# Angular Air



Tune in every Friday,  
for Angular fun!

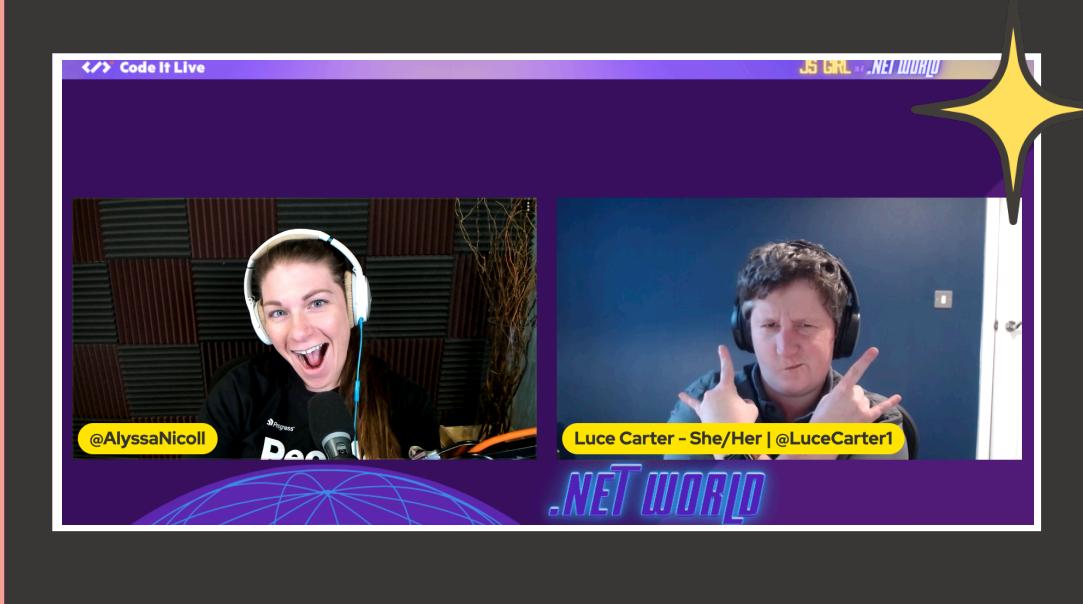
@ALYSSANICOLL

Tuesdays on *CodeItLive*



# JS Girl in a .NET World

So I started a weekly stream where I started meeting leaders in the .NET community and learning from them.



@ALYSSANICOL