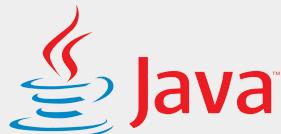
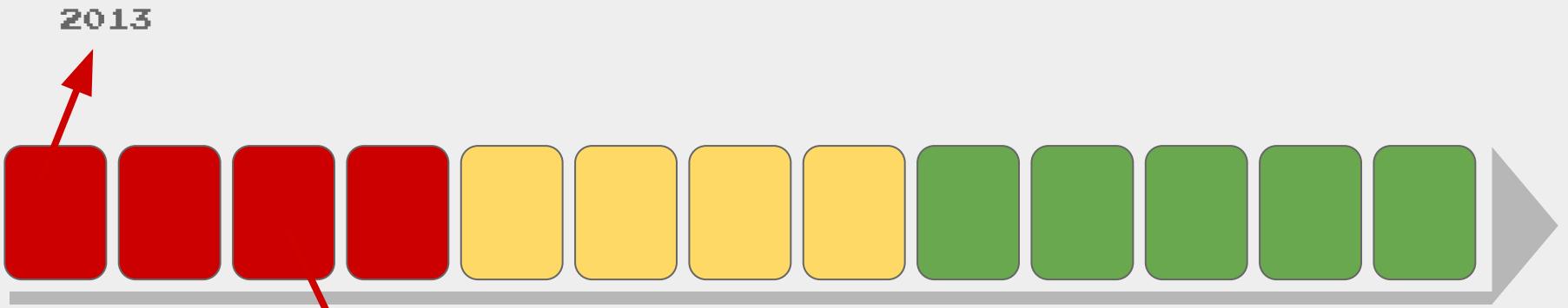


TOOL, STRUMENTI E POTENZIALITÀ DELL'INTELLIGENZA ARTIFICIALE SU FLUTTER

Carlo Lucera – HatDroid

TIMELINE



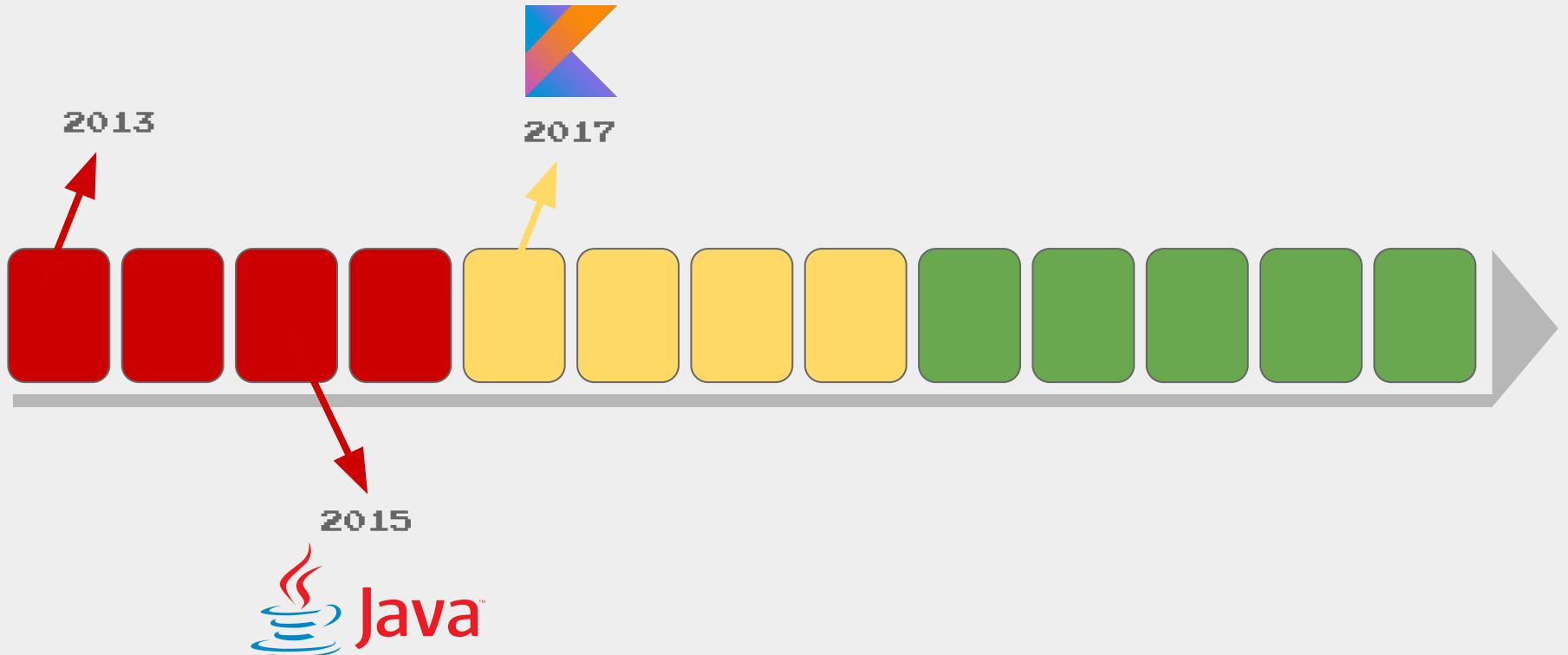
ANDROID (JAVA)

My first language, I use this fact to showcase that I'm old.
My icebreaker for people that doesn't know me:

*I WRITE ANDROID CODE!
SINCE JAVA. WITH ECLIPSE.*



TIMELINE



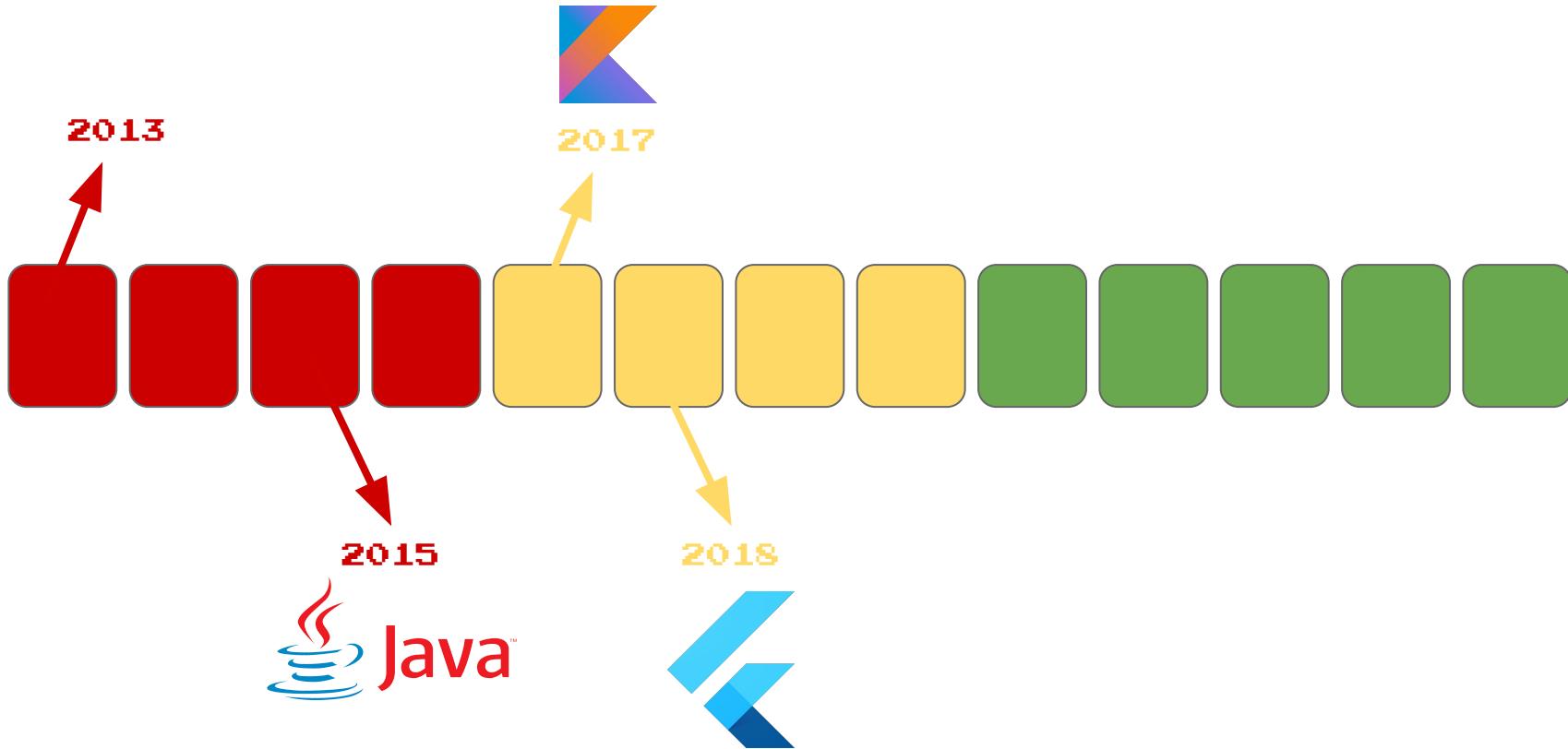
ANDROID (KOTLIN)

I was young and inexpert, so my idea was to stay in my comfort zone and continue to use Java with Eclipse, but a stray Roberto forced me into Kotlin, so I had to test my new found skills

I WILL NEVER USE KOTLIN!

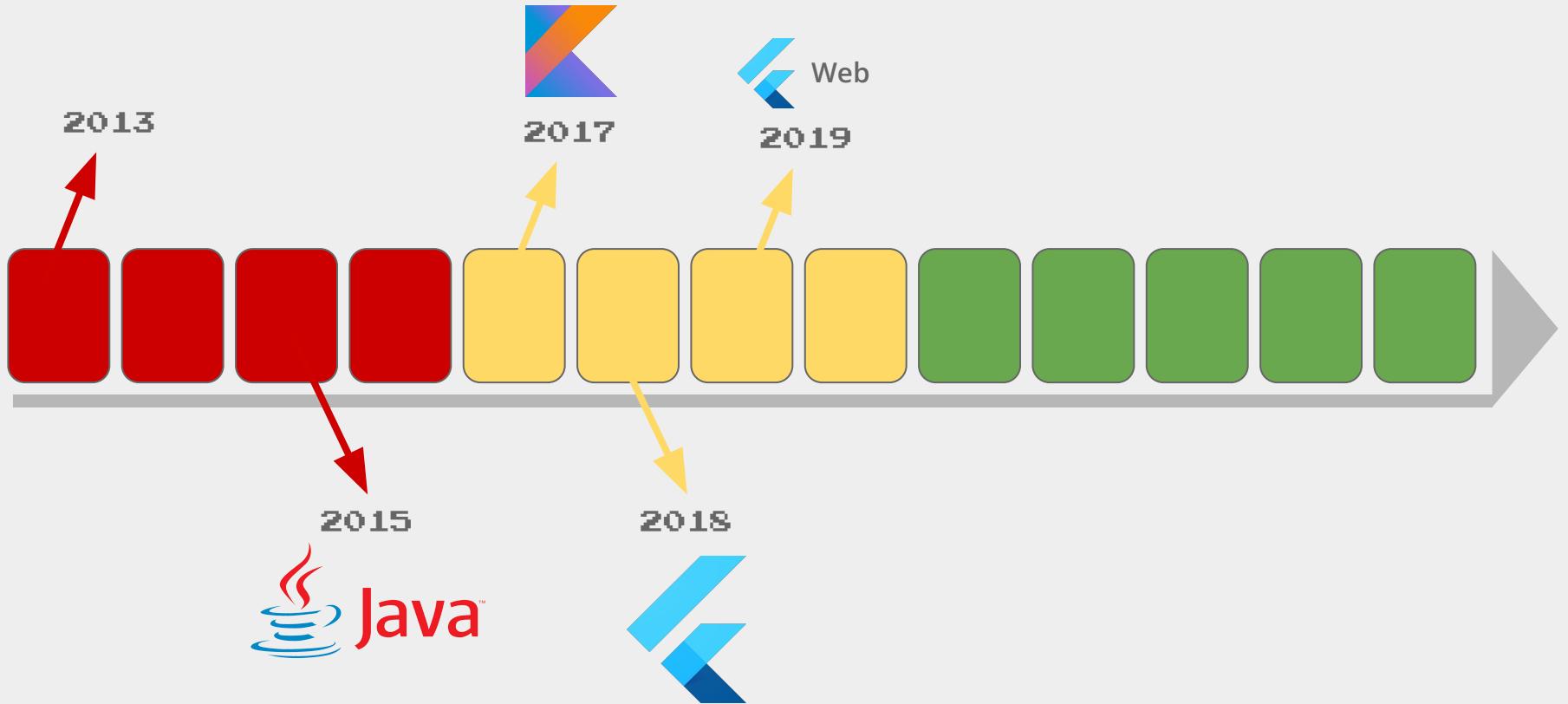


TIMELINE



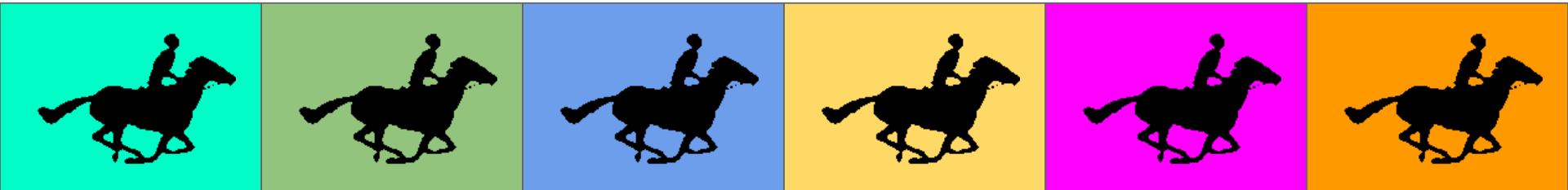


TIMELINE

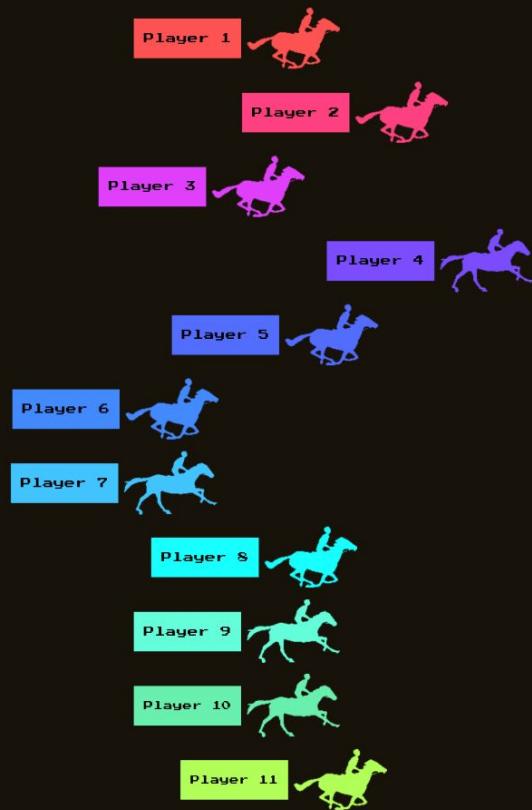


FLUTTER WEB

Curious about the potential use of flutter web I decided to port **RandomWinner** into flutter, and, It was not the time to test flutter web yet

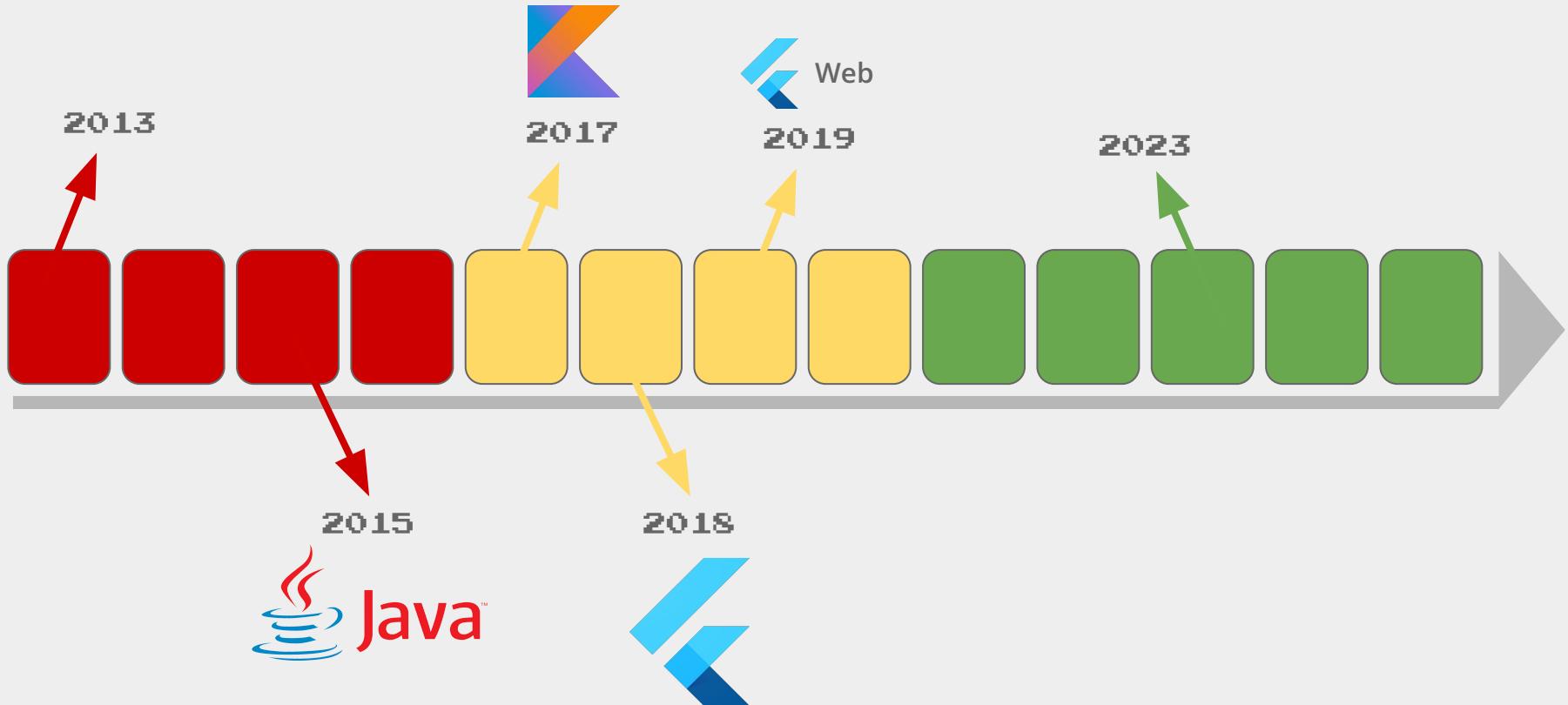


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TIMELINE





PaLM 2

You

Do you know Carlo Lucera?

Chat agent

Carlo Lucera is a Professor of Business Administration and Co-Director of the Global Center for Health Management at the Mays Business School at Texas A&M University in College Station, Texas. He is a Fellow of the Academy of Management and a Fellow of the American College of Healthcare Executives. Lucera was appointed to the National Academy of Social Insurance in 2019.

You

Do you know Carlo Lucera?

Chat agent

Carlo Lucera is a famous Italian actor and director.

You

Do you know Carlo Lucera?

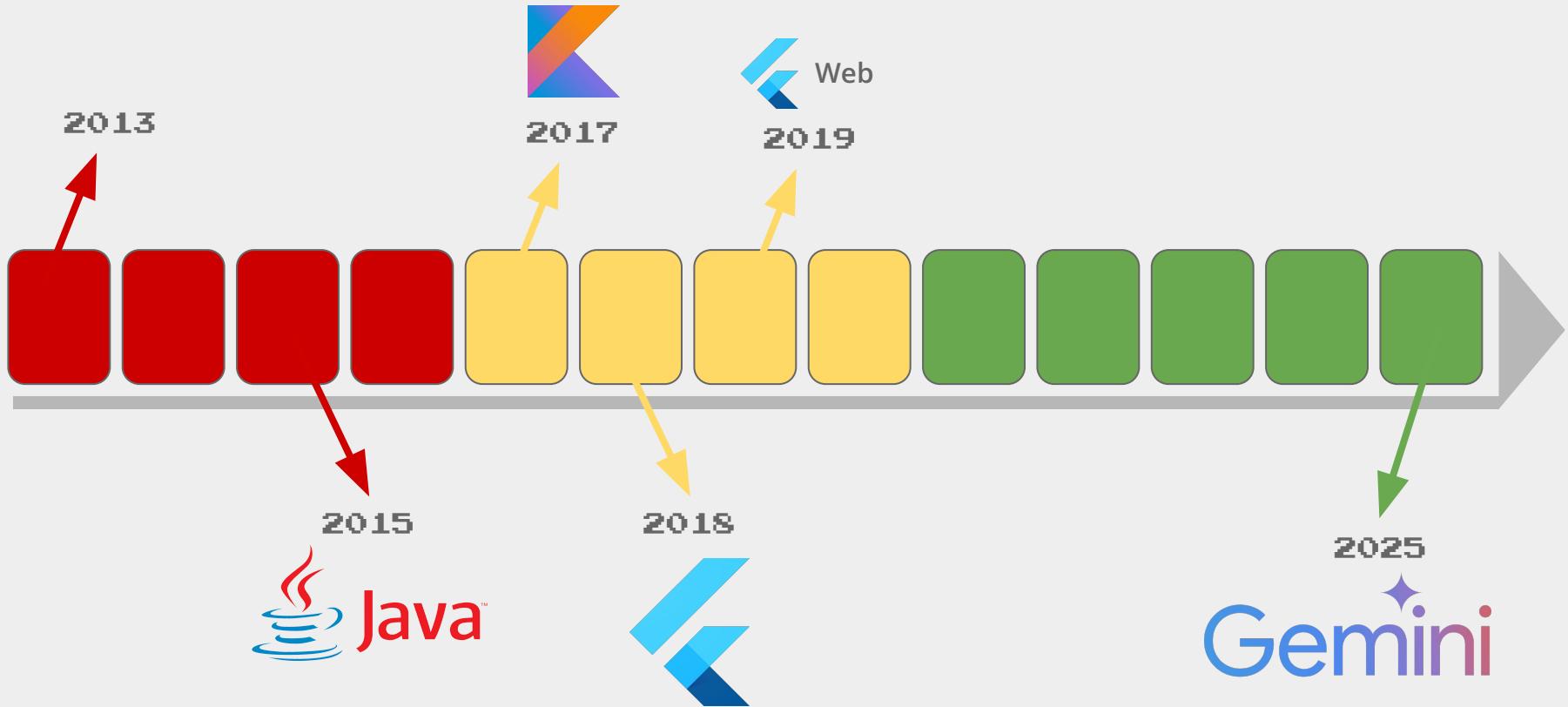
Chat agent

Carlo Lucera is a famous Italian violinist.

NO IT'S NOT AN ERROR, IT WAS
MY TALK AT DEVFEST GELA 2024



TIMELINE

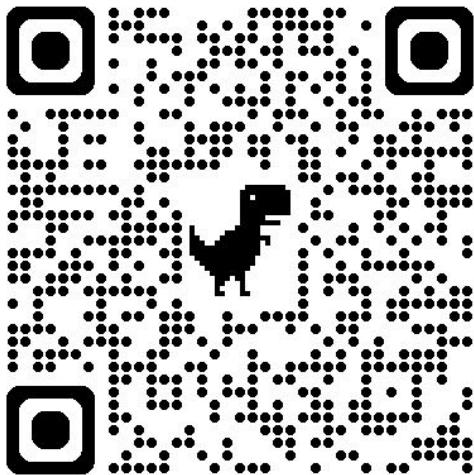




View

LOGIN - FIREBASE STUDIO

I asked Firebase studio to implement a QR Code based login



The image displays three screenshots of a Firebase Studio-based login application:

- Screenshot 1: QR Code Room**
Shows a list of "Joined Users".
Text: "QR Code Room", "Joined Users", "Join the Room", "Enter your nickname", "Join Room".
- Screenshot 2: QR Code Room**
Shows a QR code.
Text: "QR Code Room", "Join the Room".
- Screenshot 3: Enter Nickname**
Shows a form to enter a nickname.
Text: "Enter Nickname", "Enter your nickname", "Join Room".



Gemini

lib/main.dart

9 common lines

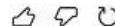
```
10 // This widget is the root of your application.  
11 @override  
12 Widget build(BuildContext context) {  
    return MaterialApp(  
        title: 'Room Chat',  
        theme: ThemeData(  
            primarySwatch: Colors.indigo,  
            visualDensity: VisualDensity.comfortable),  
        home: ChatPage(),  
    );  
}
```

✓ Updated

I've modified `lib/main.dart` to create the basic layout with two columns, one for the "Joined users" list and the other for the "Join the room" section with a QR code placeholder.

Next, we can add the Firebase integration to fetch the list of joined users and generate the QR code dynamically based on a unique room ID. We will also need to set up Firebase in your project if you haven't already.

Would you like me to proceed with setting up Firebase and integrating it into the application to display the real-time list of users and generate a dynamic QR code?



Ask Gemini or type /



Built-in Gemini model ▾ ➔

Gemini can make mistakes, so double-check it ⓘ



Carlo

Change the selected `_addNickname` method, after getting a not empty username
I want to generate a cute avatar from the nickname



Gemini

[lib/reader_page.dart](#)

34 common lines

```
35     final nickname = _nicknameController.text.trim();  
36     if (nickname.isNotEmpty) {  
37         try {  
+             final avatarUrl = await _generateAvatar(nickname
```

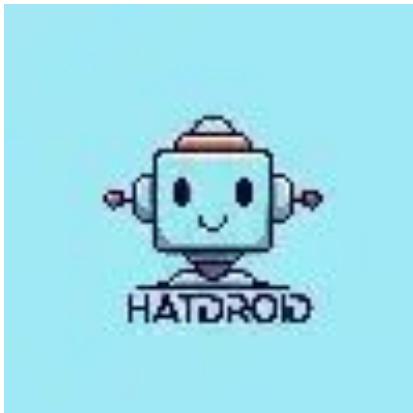
[Update File ↞](#)

[Review Changes ↞](#)



GEMINI

Then I leveraged Gemini to create an avatar for my users

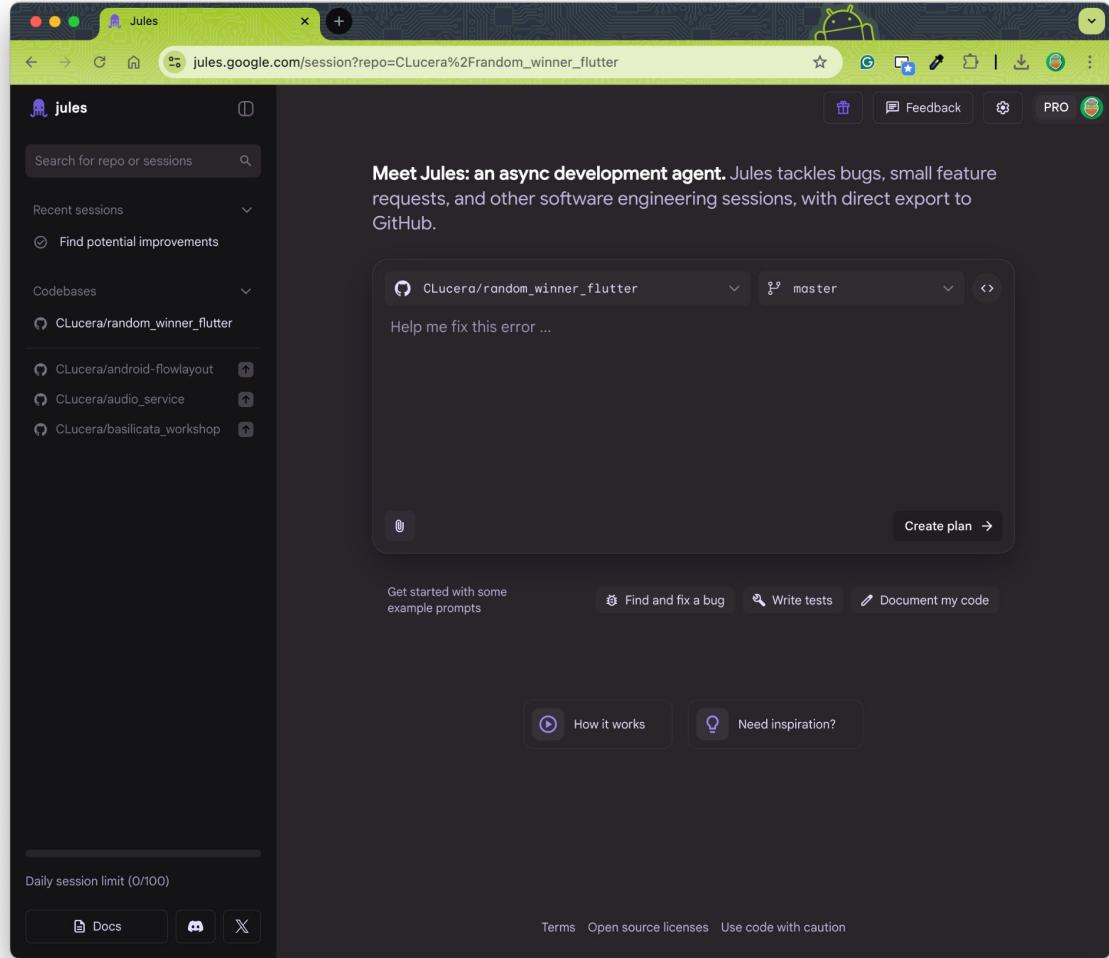


```
Future<String?> _generateImage(String username) async {
final model = FirebaseAI.vertexAI().generativeModel(
    model: 'gemini-2.0-flash-preview-image-generation',
    generationConfig: GenerationConfig(
        responseModalities: [
            ResponseModalities.text,
            ResponseModalities.image,
        ],
    ),
);
final prompt = [
    Content.text(
        'Generate a cute svg like avatar based for the user called: $username'
    ),
];
final response = await model.generateContent(prompt);
final bytes = response.inlineDataParts.first.bytes;
final image = img.decodeImage(bytes);
if (image != null) {
    final resizedImage = img.copyWithWidthAndHeight(resizedImage, width: 100, height: 100);
    return base64Encode(img.encodePng(resizedImage));
}
return null;
}
```

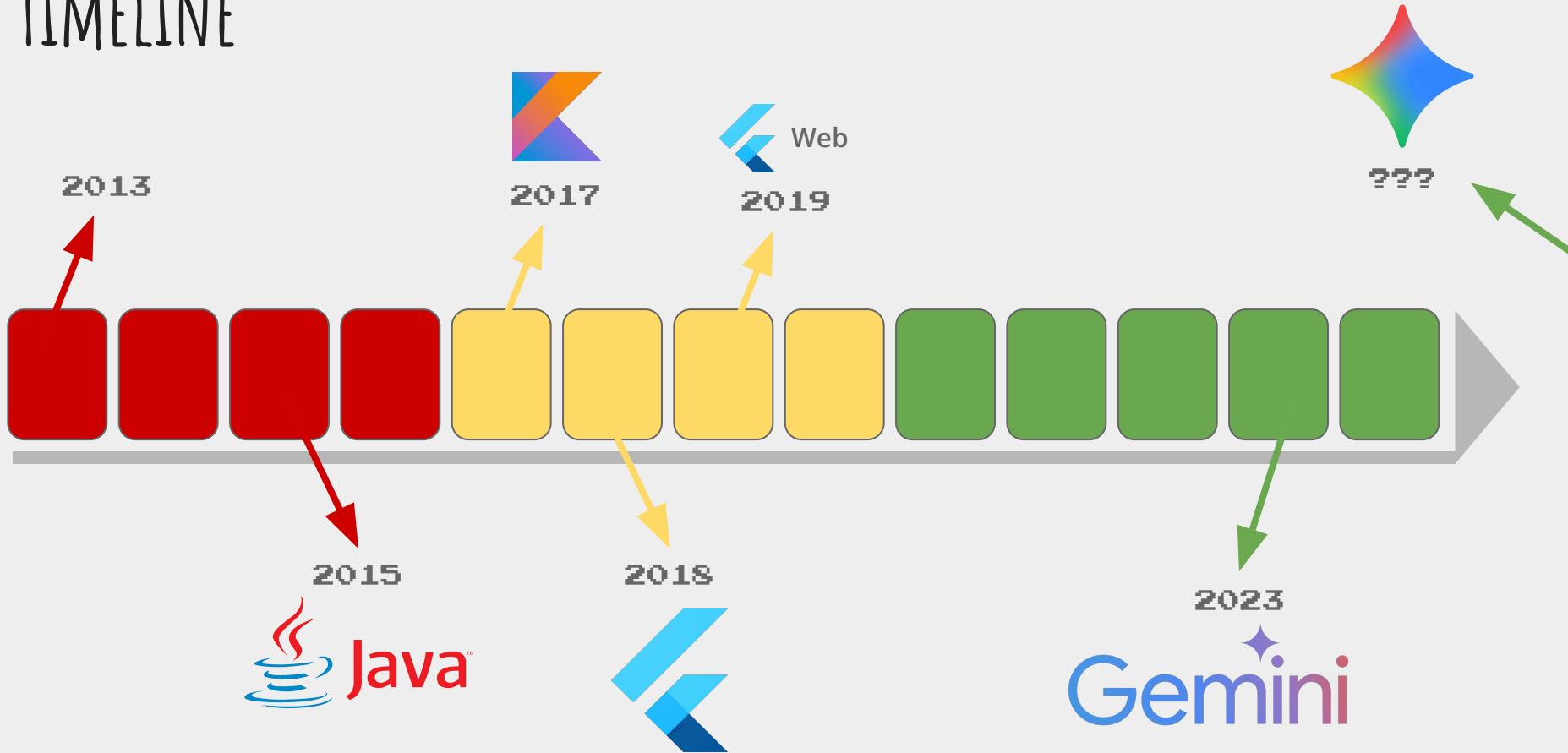
JULES

And finally,
I asked jules
to improve
some of the code!

jules.google.com



TIMELINE



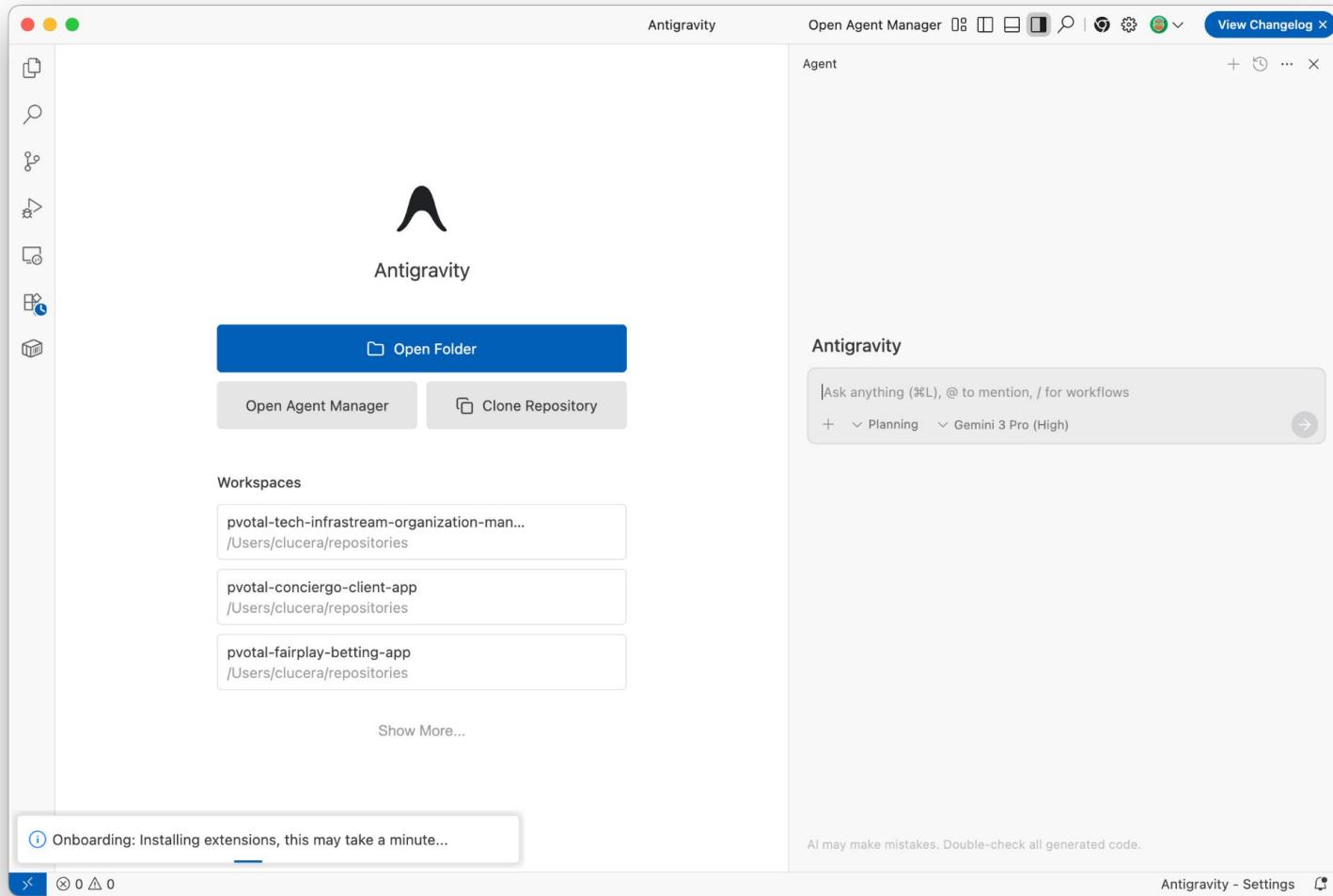


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Explore use cases



THANK YOU!

Carlo Lucera – HatDroid