How to Build a Quokkabot

@amys_kapers

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I acknowledge the traditional owners of this land, the Gadigal people of the Eora nation.

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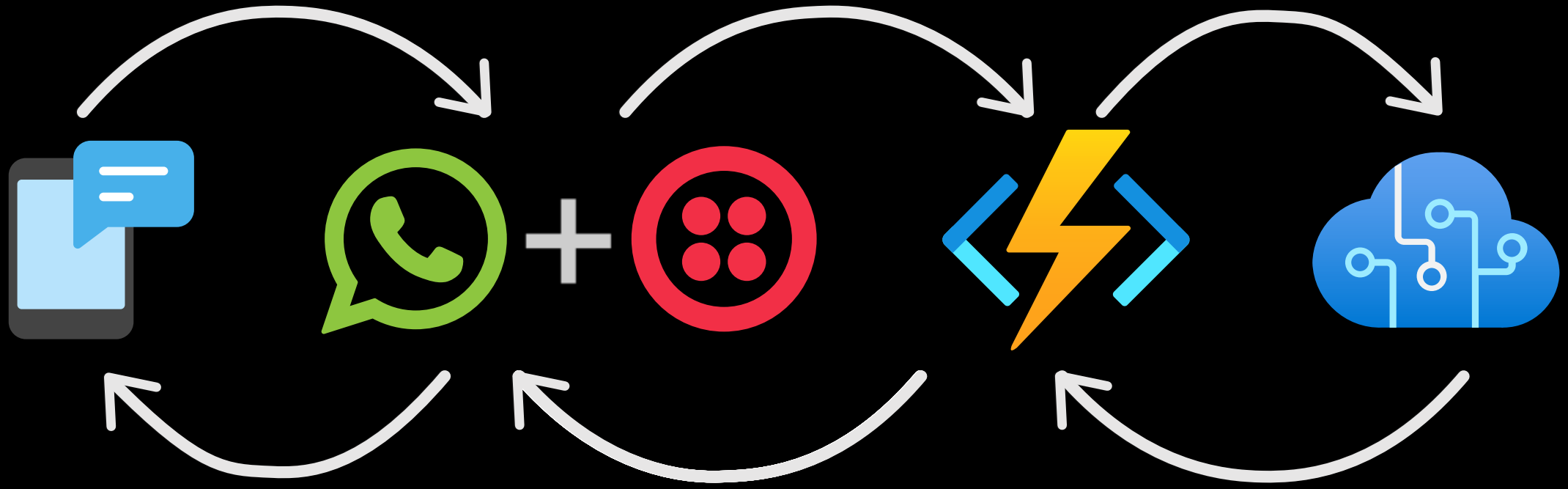
Quokkas on Demand
INTERCONTINENTAL
SYDNEY


QUOKKAZILLA
クォッカジラ



Demo Time 

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```
require('dotenv').config()

const twilio = require('twilio')

module.exports = async function (context) {
    const MessagingResponse = twilio.twiml.MessagingResponse
    const twiml = new MessagingResponse()
    const message = twiml.message()

    message.body("Welcome to Quokkabot")

    context.done(null, {
        status: 200,
        body: message.toString(),
        headers: {
            'Content-Type': 'text/xml'
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    })
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const { randomImage, quokkas, notQuokkas } = require('../_data/photos')

module.exports = async function (context) {
    const MessagingResponse = twilio.twiml.MessagingResponse
    const twiml = new MessagingResponse()
    const message = twiml.message()
    const msgParams = new URLSearchParams(context.req.body)
    const msgText = msgParams.get('Body')

    if(RegExp('quokka', 'i').test(msgText)) {
        message.body('This is a quokka')
        message.media(
            `https://quokkas.amyskapers.dev/img/quokkas/${randomImage(quokkas).slug}`
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// Existing imports here

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const { ApiKeyCredentials } = require('@azure/ms-rest-js')

const key = process.env.API_KEY
const endpoint = process.env.ENDPOINT
const projectId = process.env.PROJECT_ID
const iteration = process.env.ITERATION

const credentials = new ApiKeyCredentials({ inHeader: { "Prediction-key": key } })
const predictor = new PredictionAPIClient(credentials, endpoint)

module.exports = async function (context) {
    // Existing code here

    const image = msgParams.get('MediaUrl0')
    let results = false

    if(image) {
        results = await predictor.classifyImageUrl(projectId, iteration, { url: image })
    }
    else {
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    context.log({results: JSON.stringify(results)})

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{
    "results": {
        "id": "06f7250b-ffb3-47a1-9508-c928b8c54b87",
        "project": "a44bf78b-da55-4a95-bfdc-21ac780d2518",
        "iteration": "8a75c738-d658-4f63-8a2e-e18318f418f8",
        "created": "2022-10-12T06:31:47.662Z",
        "predictions": [
            {
                "probability": 0.99992716,
                "tagId": "1f6223d5-79ce-4e6b-8f58-ddfbb4635246",
                "tagName": "Quokka",
                "tagType": "Regular"
            },
            {
                "probability": 0.00007281252,
                "tagId": "7a44e503-b236-4991-bf44-2e08ca0e2356",
                "tagName": "Negative",
                "tagType": "Negative"
            }
        ]
    }
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// Existing imports here

module.exports = async function (context) {
    // Existing code here

    if(image) {
        // Get image classification results

        let outcome = {}

        results.predictions.forEach(tag => {
            if (tag.tagName == 'Negative') {
                outcome.negative = tag.probability
            } else if (tag.tagName == 'Quokka') {
                outcome.quokka = tag.probability
            }
        })

        const quokka = `${(outcome.quokka * 100).toFixed(2)}%`
        const notQuokka = `${(outcome.negative * 100).toFixed(2)}%`

        if(outcome.negative > outcome.quokka) {
            message.body(
                `Sorry that doesn't look like a quokka\nQuokka: ${quokka}, Not Quokka: ${notQuokka}\nThat's pretty
sad though, so here's a quokka`
            )

            message.media(`https://quokkas.amyskapers.dev/img/quokkas/${randomImage(quokkas).slug}`)
        }
        else {
            message.body(`Yep that looks like a quokka!\nQuokka: ${quokka}, Not Quokka: ${notQuokka}`)
        }
    }
    else {
        // Send Quokka or not Quokka photo
    }

    // Finish Azure Function
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module.exports = async function (context) {
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    if(image) {
        // Check Image
    }
    else {
        if(RegExp(/error|issue|wrong/, 'i').test(msgText)) {
            message.body('Sorry about that, here is a quokka to cheer you up')
            message.media(
                `https://quokkas.amyskapers.dev/img/quokkas/${randomImage(quokkas).slug}`
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        }
        else if(RegExp('quokka', 'i').test(msgText)) {
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@amys_kapers

```
// Existing imports here

module.exports = async function (context) {
    // Existing code here

    if(image) {
        // Check Image
    }
    else {
        if(RegExp(/error|issue|wrong/, 'i').test(msgText)) {
            message.body('Sorry about that, here is a quokka to cheer you up')
        }
        else if (RegExp('fact', 'i').test(msgText)) {
            message.body(randomFacts(facts))
        }
        else if(RegExp('quokka', 'i').test(msgText)) {
            message.body('This is a quokka')

        }
        else {
            message.body(`Welcome to Quokkabot! I can do a bunch of different things that have to
do with quokkas.\nNeed a picture of a quokka? Just ask me\nNot sure if you've seen a quokka? Send
me a picture and I'll tell you if there's a quokka in it`)
        }

        message.media(`https://quokkas.amyskapers.dev/img/quokkas/${randomImage(quokkas).slug}`)
    }

    // Finish Azure Function
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Demo Time 

@amys_kapers

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const sgMail = require('@sendgrid/mail')
const parseMultipartFormData = require('@anzp/azure-function-multipart').default


module.exports = async function (context, req) {
    const { fields, files } = await parseMultipartFormData(req)
    const body = {}
    const image = (files && files.length) && files[0].bufferFile

    fields.forEach(field => {
        body[field.name] = field.value
    })

    sgMail.setApiKey(process.env.SENDGRID_API_KEY)

    let msg = {
        to: body.from,
        from: {
            name: 'Quokkabot',
            email: 'quokkas@amyskapers.dev',
        },
        subject: `Re: ${body.subject}`
    }


    if (image) {
        const results = results = await predictor. classifyImage(projectId, iteration, image)
        // Format and return image results

        msg.html = formatResults(results)
    }
    else {
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    msg.html = `${msg.html}`

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@amys_kapers

Try it yourself!

@amys_kapers

hi@quokkas.dev

@amys_kapers

quokkas.amyskapers.dev

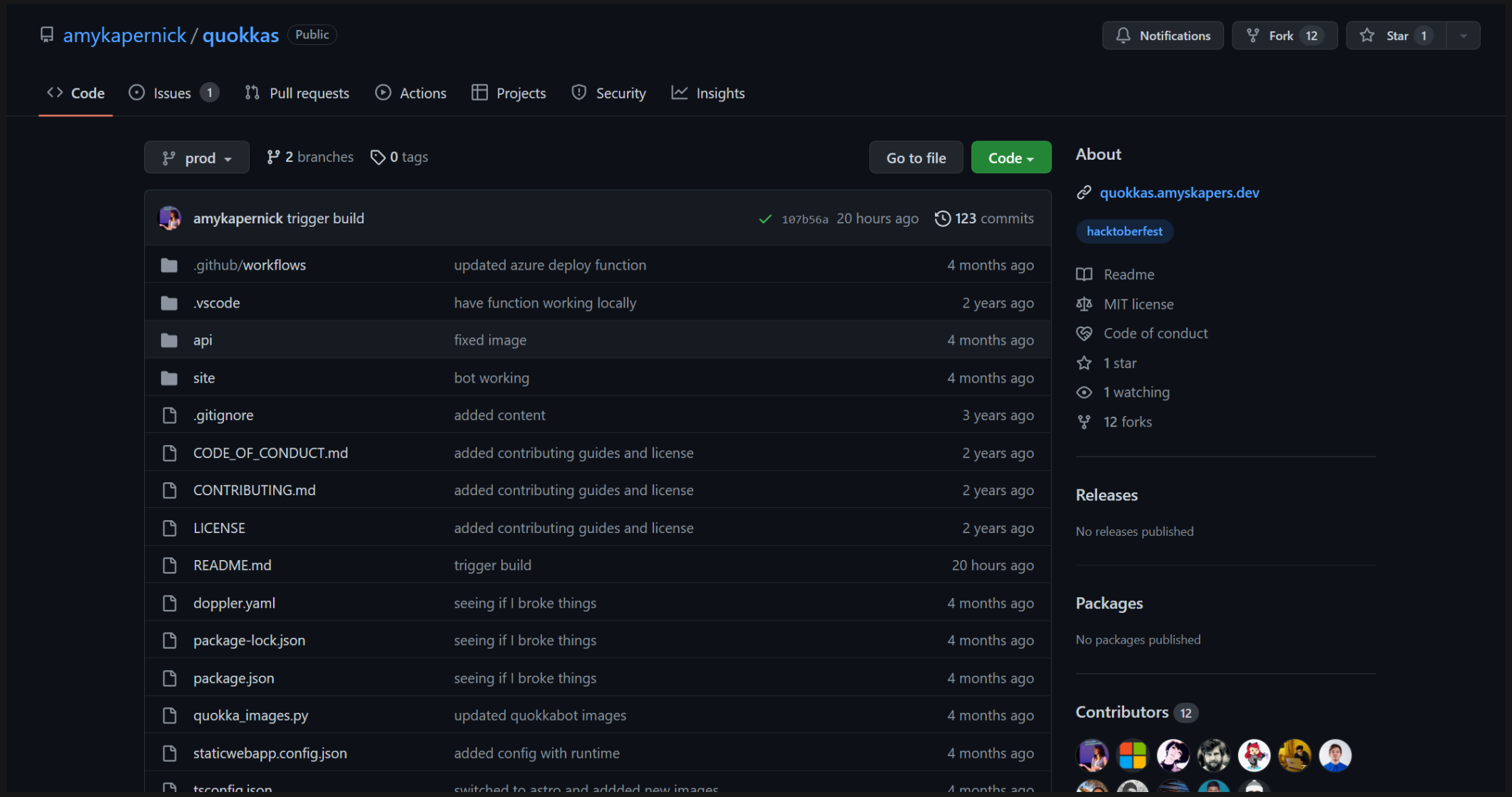
@amys_kapers

quokkas.amyskapers.dev/results

@amys_kapers

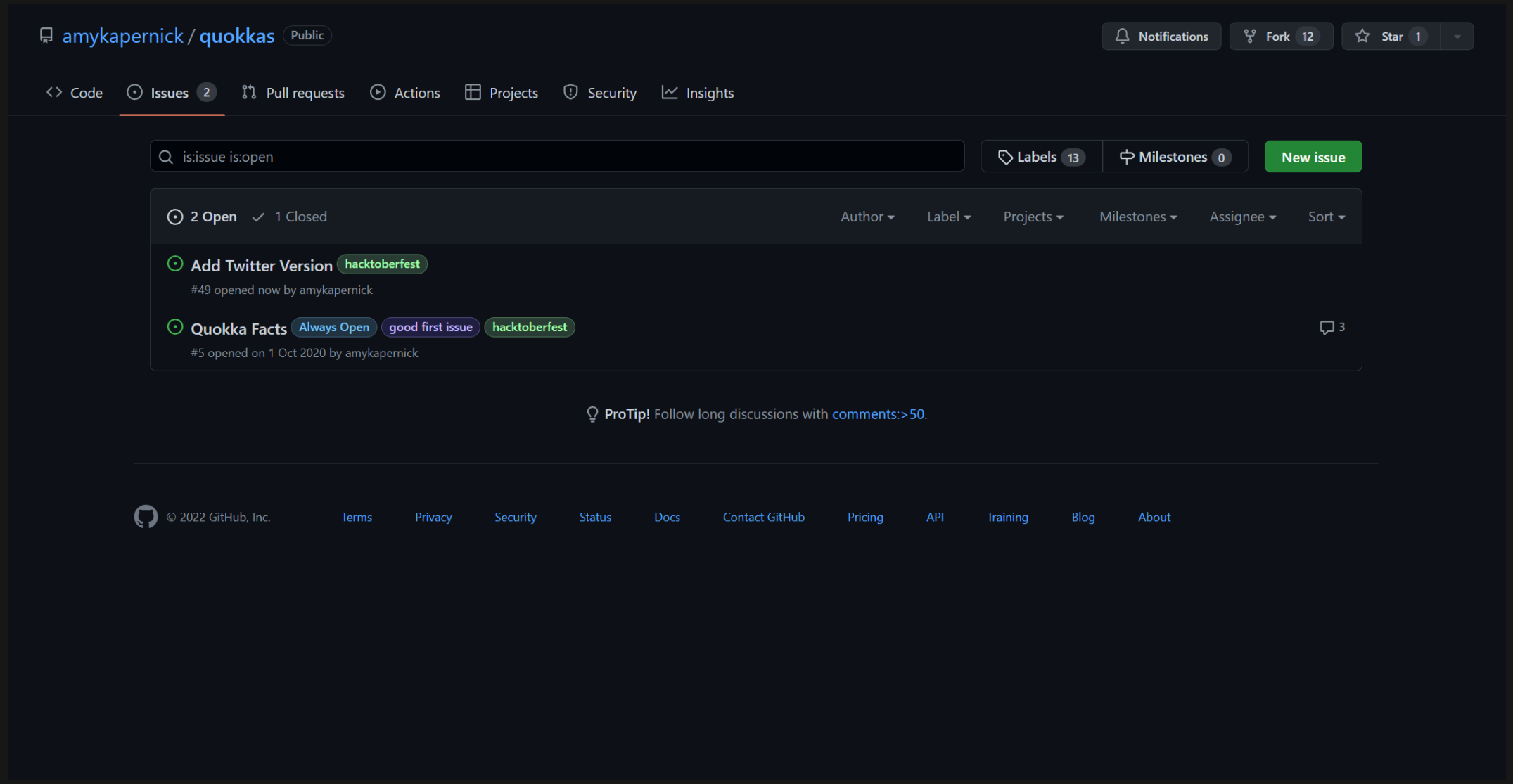
What next?

@amys_kapers



github.com/amykapernick/quokkas

@amys_kapers



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But why?

Thank You 

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Questions?

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