

About Me

- Independent developer.
- Focus is on integration.
- Developing with Xojo since late 2014.
- This is my third XDC.

Session Goals

- Explain what webhooks are, and why they are so popular.
- Explain the differences between webhooks and APIs.
- Show how to develop Xojo applications that receive webhook notifications.
- Show how to develop Xojo applications that send webhook notifications.
- Discover best practices for implementing webhooks.

What are Webhooks?

What are Webhooks?

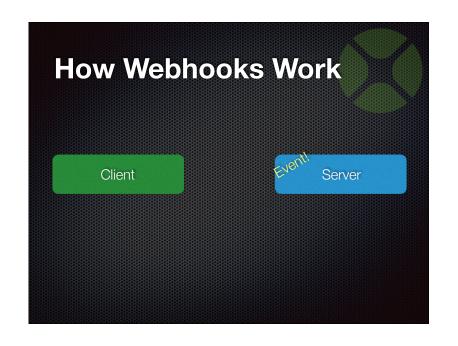
- "Push notifications for your API"
 - Chris Maddern on Twitter: @chrismaddern
- Webhooks are callbacks that are triggered when an event occurs on a source system.
- The source system (the server / sender) sends an HTTP request to a receiving system (the client / receiver).

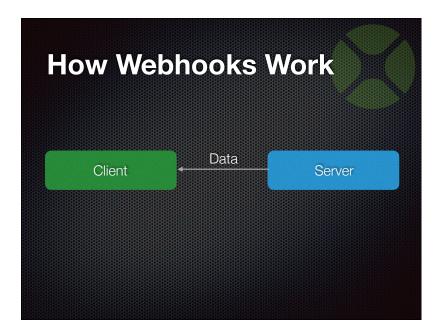
Why are Webhooks so popular?

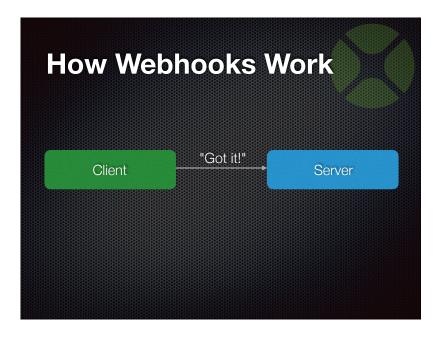
Why Webhooks are Popular

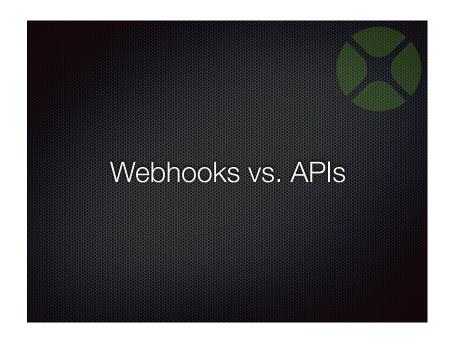
- Easy to use and configure
- Language agnostic
- Efficient (takes load off of the client and server)
- Instant

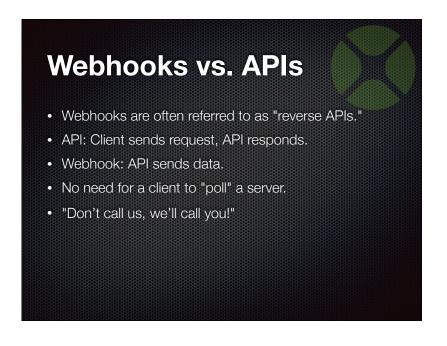
How Webhooks Work

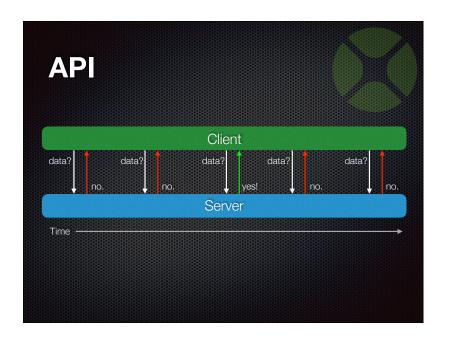


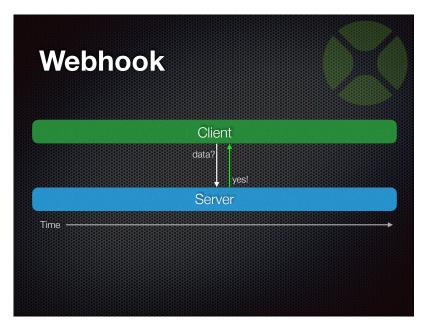










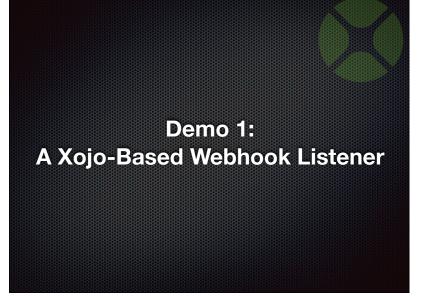




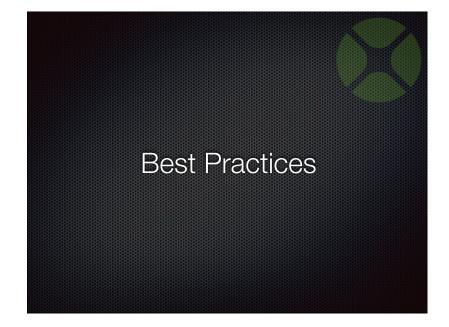
Webhook Services

- Google Sheets
- Twitter
- GMail
- Slack
- MailchimpTwilio
- Airtable
- Instagram
- Dropbox

- Stripe
- WordPress
- Wufoo
- Shopify
- WooCommerce
 - And more...







Best Practices: Servers

- Send complete Webhook notifications.
- Support multiple URLs.
- Support multiple events.
- Provide subscribers with both a UI and an API for specifying listener URLs.
- Secure webhooks using a token.

- Support retries.
- Send email notifications when the Webhook fails.
- Consider providing an "Events" API.
- Include a timestamp and ID in the notifications.
- Provide a way to send a test notification.

Best Practices: Clients

- · Validate Webhook notifications.
- Consider using a queue.
- Use HTTPS.
- Have a plan for dealing with missed notifications.

Q&A

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