Bixby Office Hours

Building for Our Ambient Computing Future

Introductions

Roger Kibbe

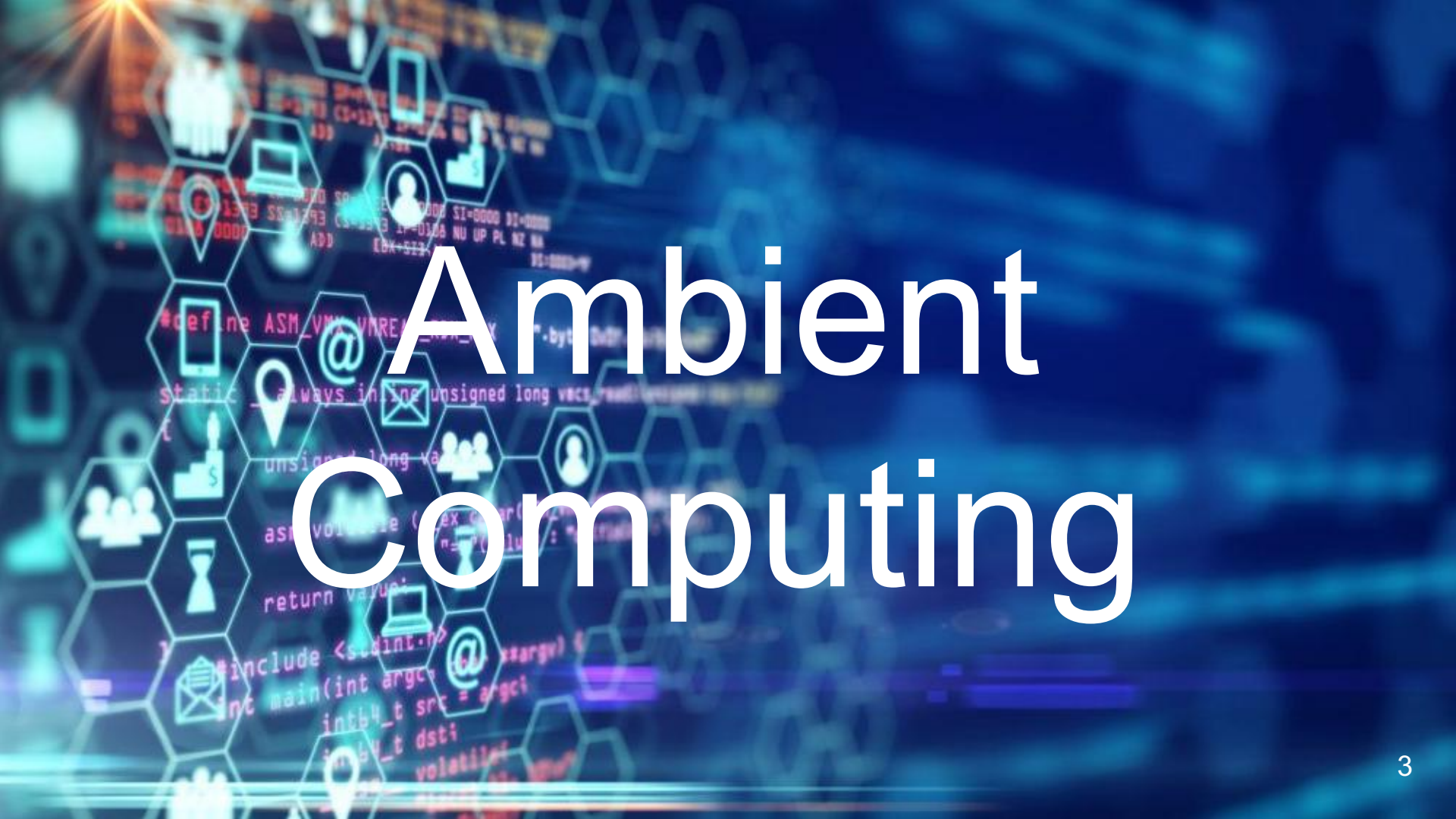
- **Senior Technical Evangelist**
- **Father of two teen daughters**
- **UC Berkeley Graduate – Go Bears!**

@rogerkibbe

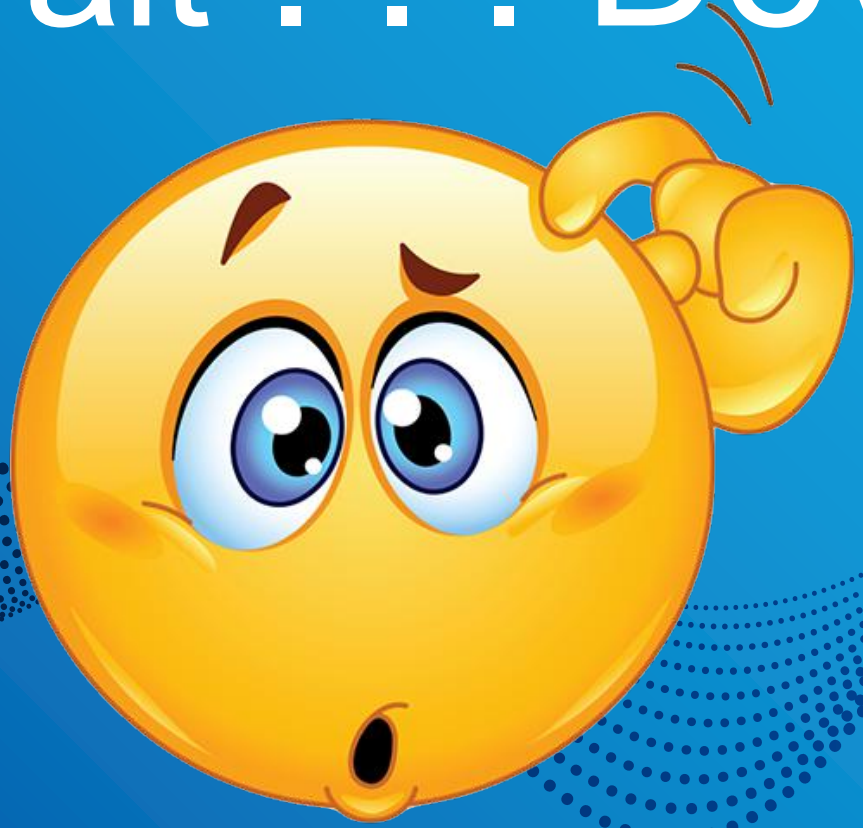
Jonathan Pan

- **Technical Evangelist**
- **Winner of the 2019 Internal Hackathon**
- **Has too many cats! (meow)**

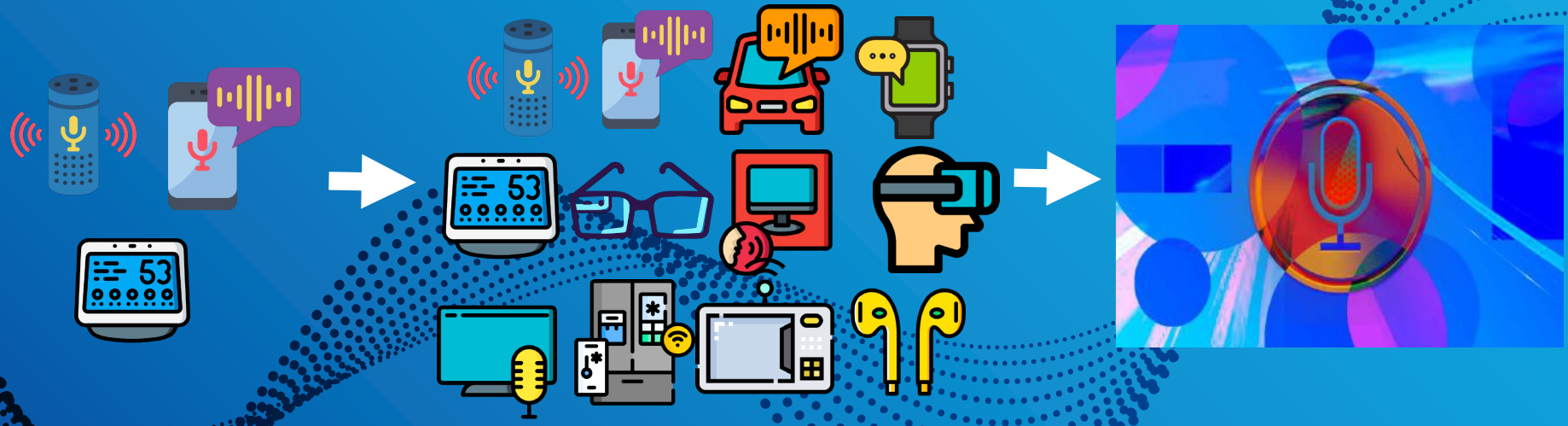
@JohnWithoutTheH


Ambient
Computing

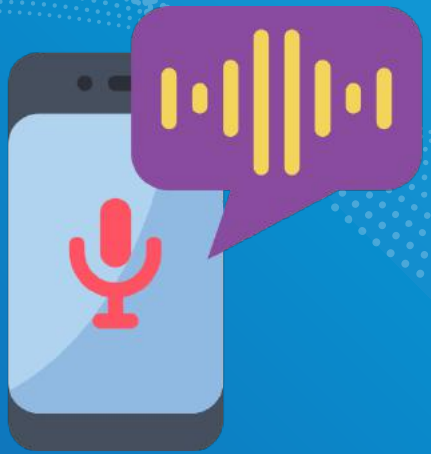
But Wait . . . Devices?



An Evolution



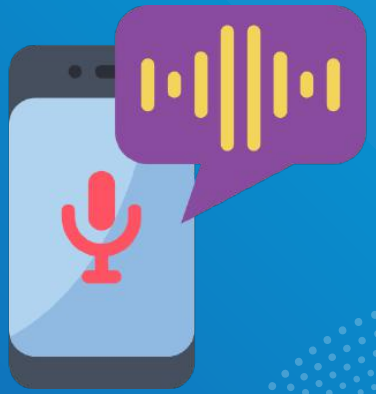
Today



CALL
TO
ACTION

Tomorrow

Icons from Flaticon.com



Phones

Modalities:

Screen Size:

Medium

Mobile/Stationary

Opportunities

- Everything
- Voice enabling apps and web
- Location Aware

Considerations

- UI Expectations
- Headphone/buds usage

Smart Watch

Modalities:

Screen Size:

Small

Mobile/Stationary

Opportunities

- Simple commands e.g. request and response
- Voice first interface
- Location Aware

Considerations

- Tiny Screen
- Quick interactions
- Often paired with phone

Hearables/ EarBuds

Modalities:

Screen Size:

Mobile/Stationary

Opportunities

- Voice first interface
- Location Aware
- Stereo

Considerations

- Quick interactions
- Privacy/Social Pressure
- Paired Device

Smart Appliances

Modalities:

Screen Size:

Large

Mobile/Stationary

Opportunities

- Cooking/”GPS for the Chef”
- Family Entertainment
- Family Scheduling/Organization

Considerations

- Screen? Visible or Not
- Privacy

Automobile

Modalities:

Screen Size:

Medium

Mobile/Stationary

Opportunities

- Location Aware
- Entertainment/News: 30 billion commute hours

Considerations

- Safety – Voice First, simplified supporting UI

Television

Modalities:

Screen Size:

Large

Mobile/Stationary

Opportunities

- Big Screen Multimodal – Games, Multiplayer
- Overlays – Sports, Information

Considerations

- Screen first device
- Privacy

Computer

Modalities:

Screen Size:

Large

Mobile/Stationary

Opportunities

- Voice enabling apps and web
- Entertainment

Considerations

- UI Expectations – Screen first device
- Privacy

Household Electronics

Kitchen, Laundry, HVAC

Modalities:

Screen Size: Small/None

Mobile/Stationary

Opportunities

- Simplifying Use
- Cooking
- Purpose built voice assistants

Considerations

- Safety – Kitchen
- Keep it simple

AR/VR

Modalities:

Screen Size:

Medium

Mobile/Stationary

Opportunities

- Voice First
- Location Aware
- Games, Entertainment

Considerations

- Screen/Display first
- Privacy/Social Acceptance

VOICE

Thank You

presentation: bit.ly/bix31221

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