Byte-B-Q

The Grill Master's Wearable Thermal Imager Cody Harris and John Vinyard



Summer BBQ

Ready-made market of Thermal Enthusiasts



The Hand Test

High 2~4 seconds
Medium 5~7
Low 8~10

Grill Master's Wearable

- Augment gesture with Thermal Imaging
- Verify guesstimate and record grill's Thermal Image
- Check size of grilling area
- Training and safety check for neophytes



Live Demo

- For safety and availability, hot water is used instead of a grill
 - Good grill
 - Small grill
 - Too cold
- Algorithms will scale to Grill-relevant temperatures

Next Steps

- Indoor cooking
- More I/O
 - Accelerometer for gesture, haptic feedback for safety
- Advanced grilling techniques & fire configurations
 - Indirect heat
 - Two-Zone fire
- Hot-spot/cold-spot detection

Q & A

Demo Detail

- "Hot Area" calculated, looking for 100cm²
- Mug is ~62cm²
- Hot Pot is ~290cm²



