2013 Specialist Scholars Knowledge Sharing

Rowan Peter

Proposed course of study

Part 1 – Research

- Attend ARcamp 2.0 at University of Canberra in May 2013
- Explore AR platforms and technology

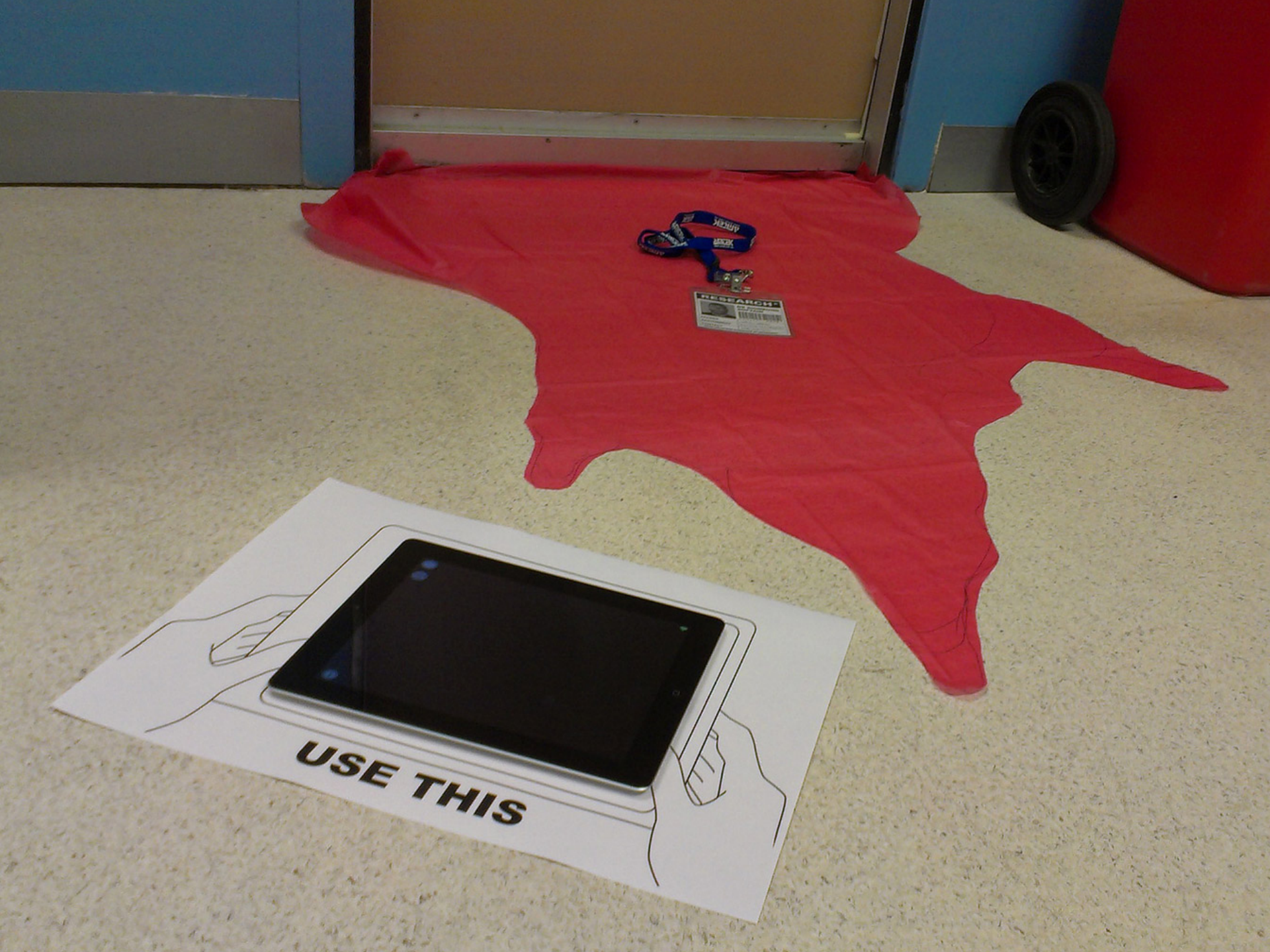
Part 2 – Develop

- Design and develop augmented contextual instruction
- Trial with students and teacher
- Determine next steps

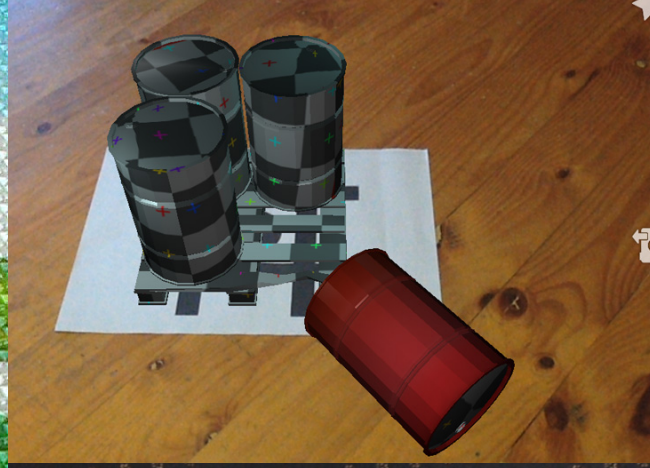
History

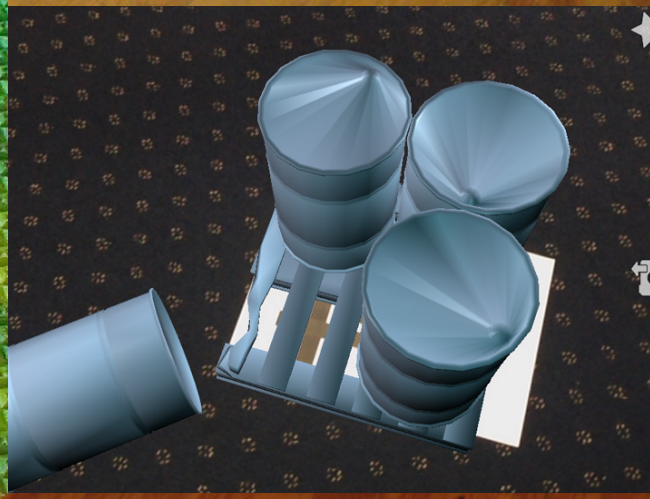
Back
SPACECRAFT 3D
Curiosity
Animations

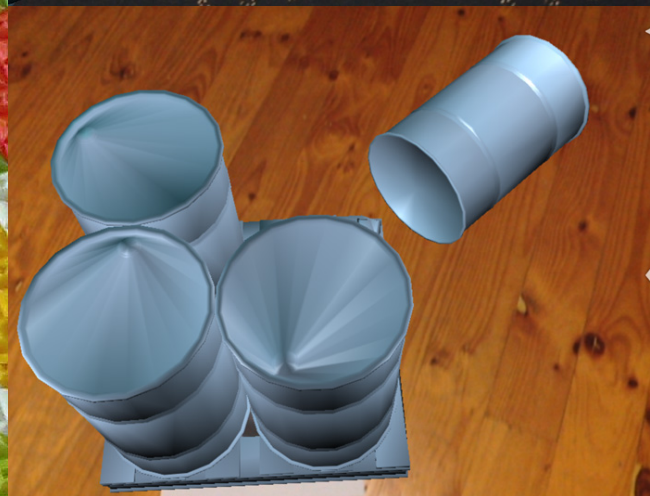
USE THIS

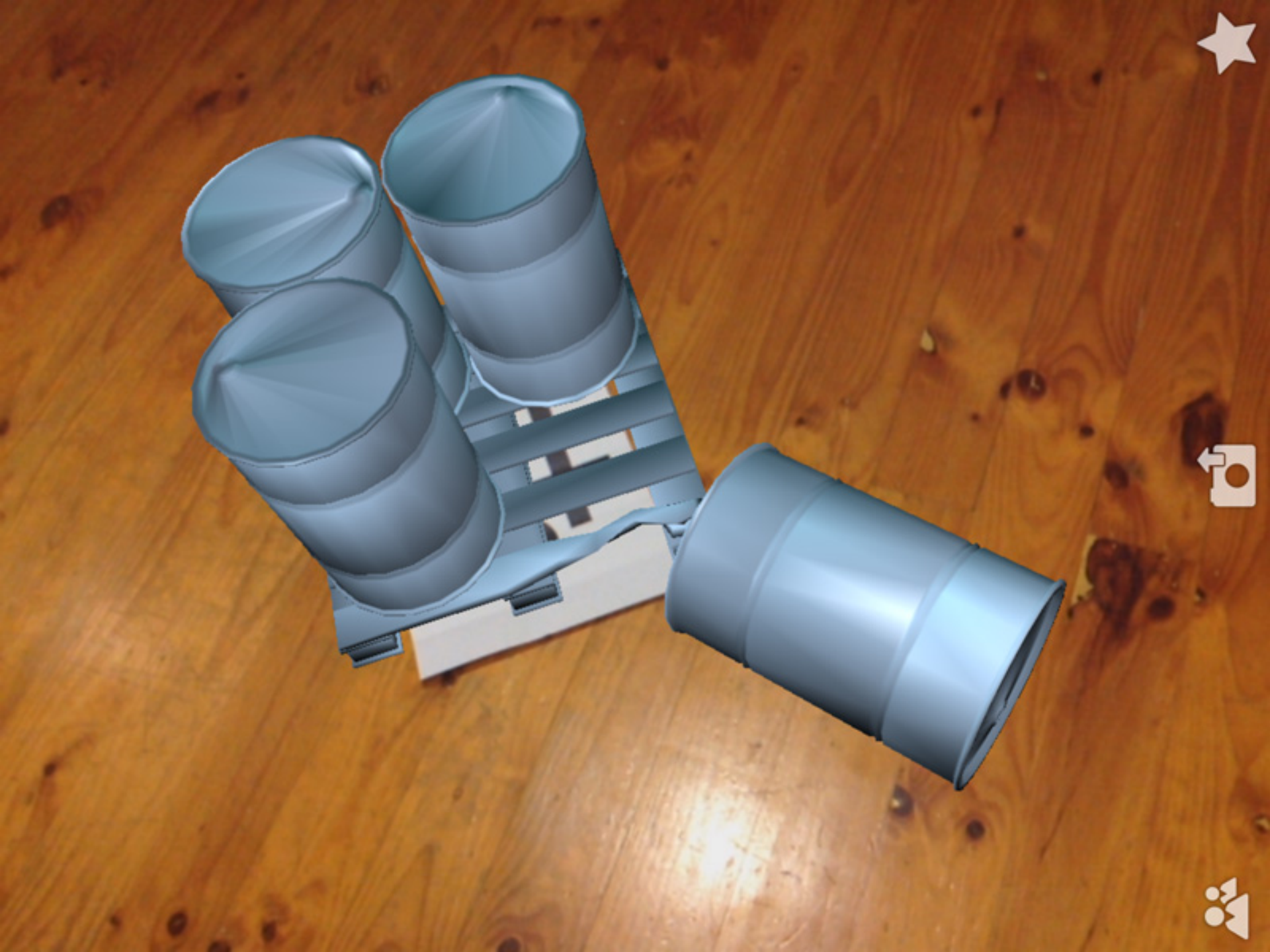

RESEARCH
USE THIS

tree





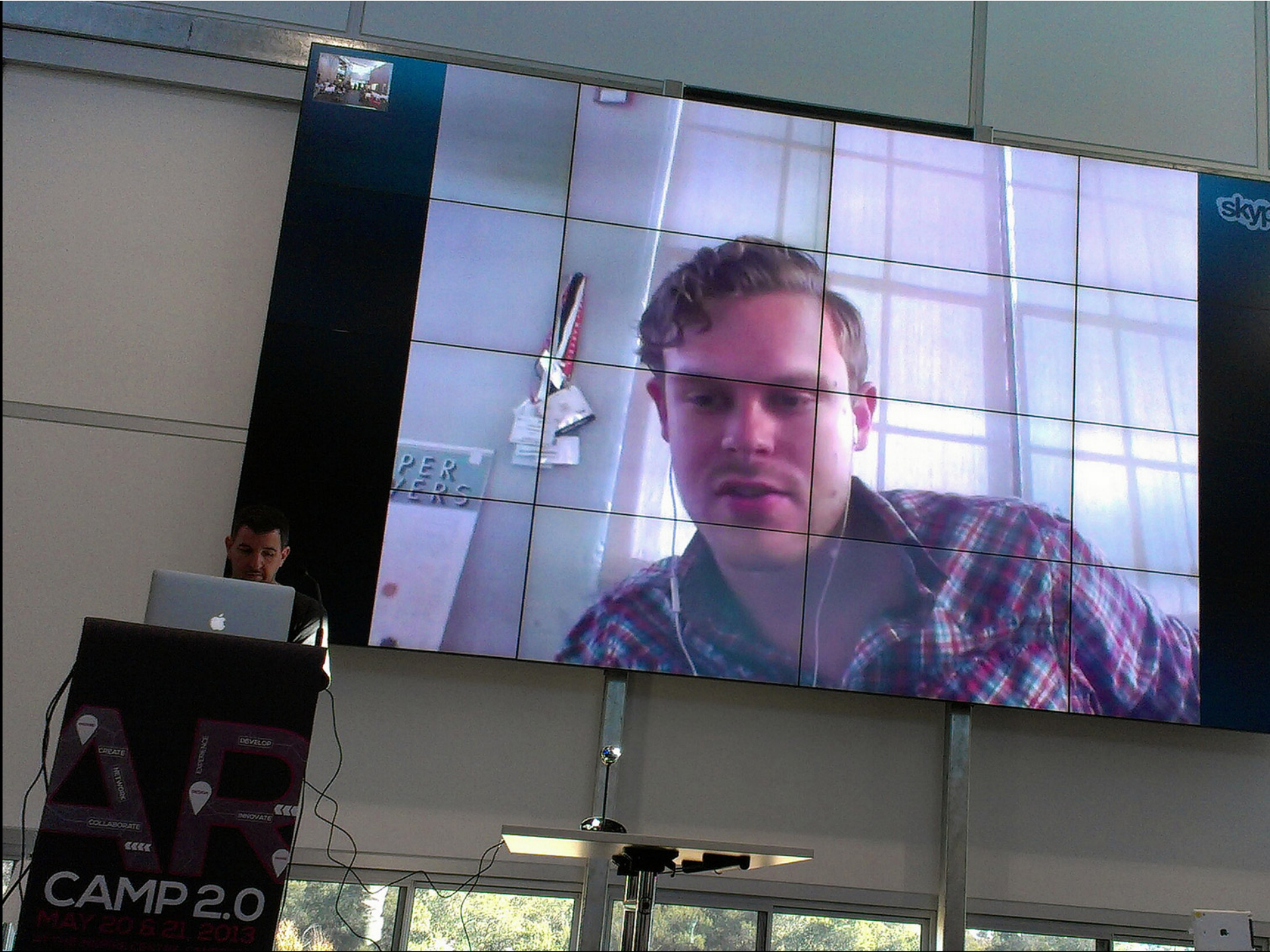




Research

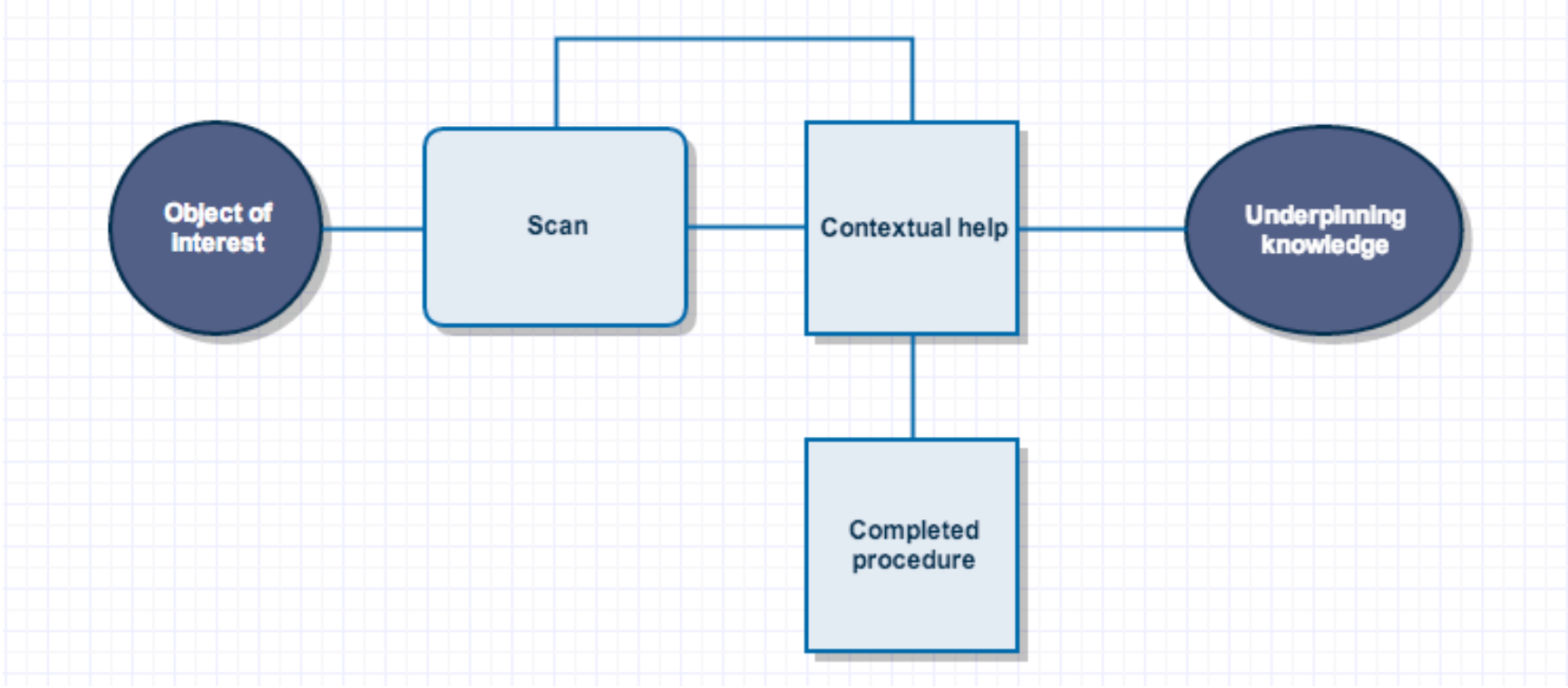
CAMP 2.0
DEVELOP
EXPERIENCE
INNOVATE
COLLABORATE
AR
CAMP 2.0
MAY 20 & 21, 2013

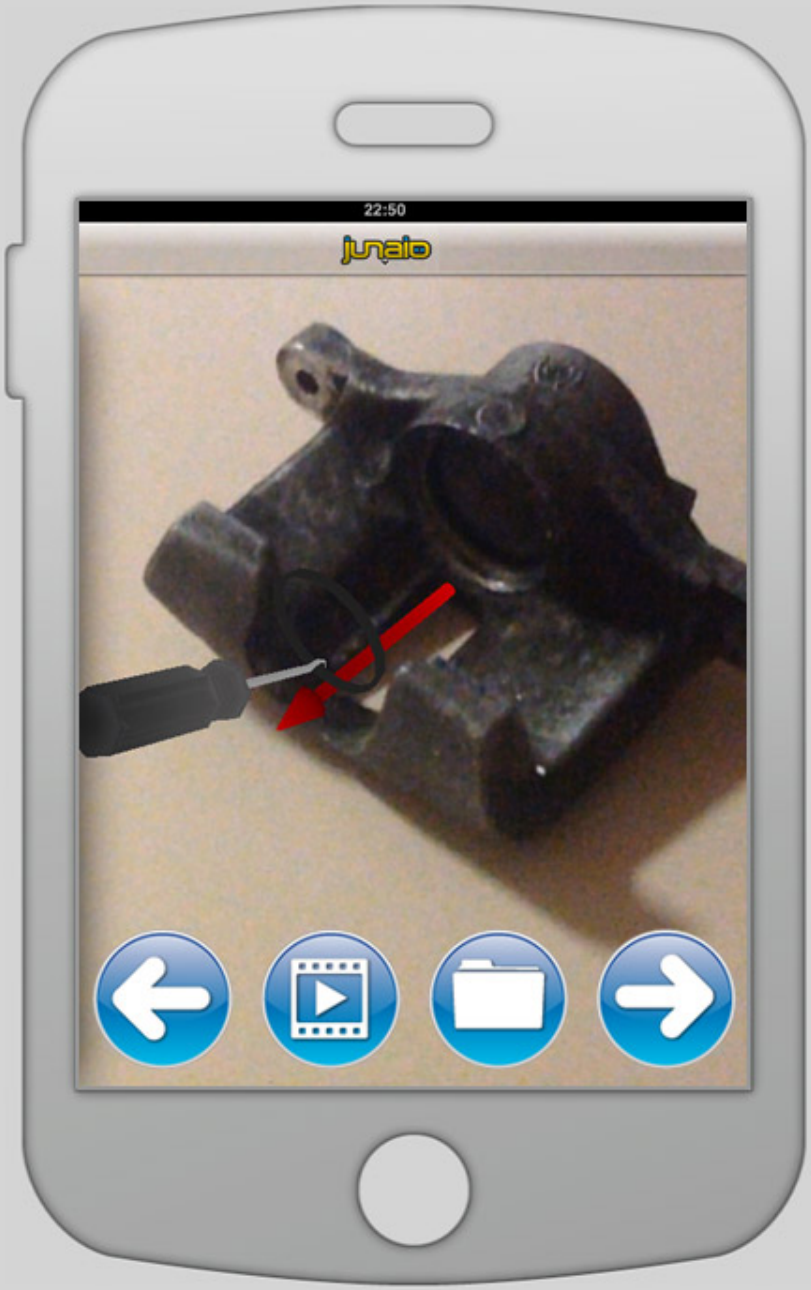
FARO
FOCUS3D
DEVELOP
CREATE
NETWORK
INNOVATE
COLLABORATE
AMP 2.0

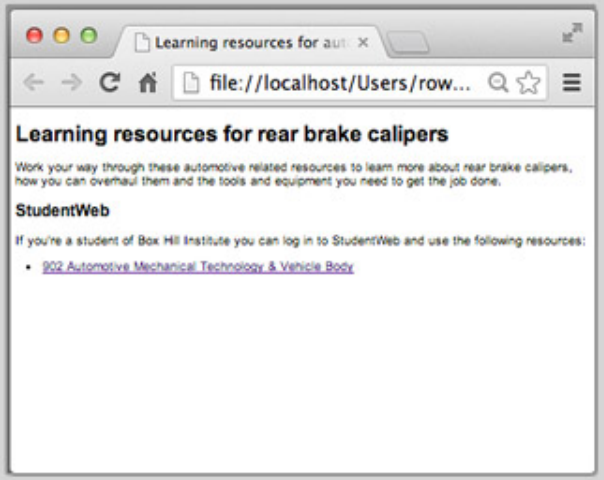

CREATE
DEVELOP
NETWORK
EXPERIENCE
COLLABORATE
INNOVATE
CAMP 2.0
MAY 20 & 21, 2013

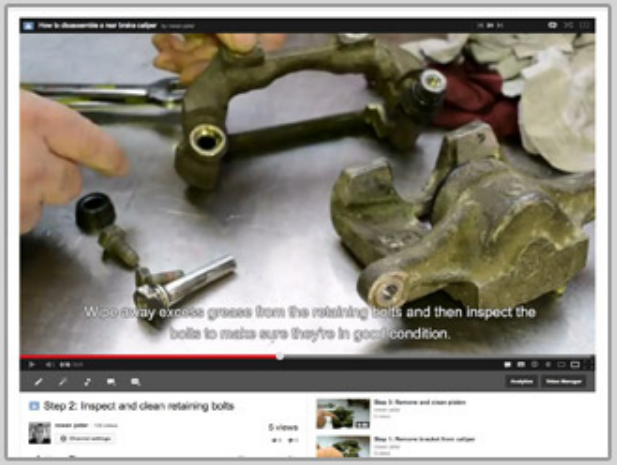
Develop

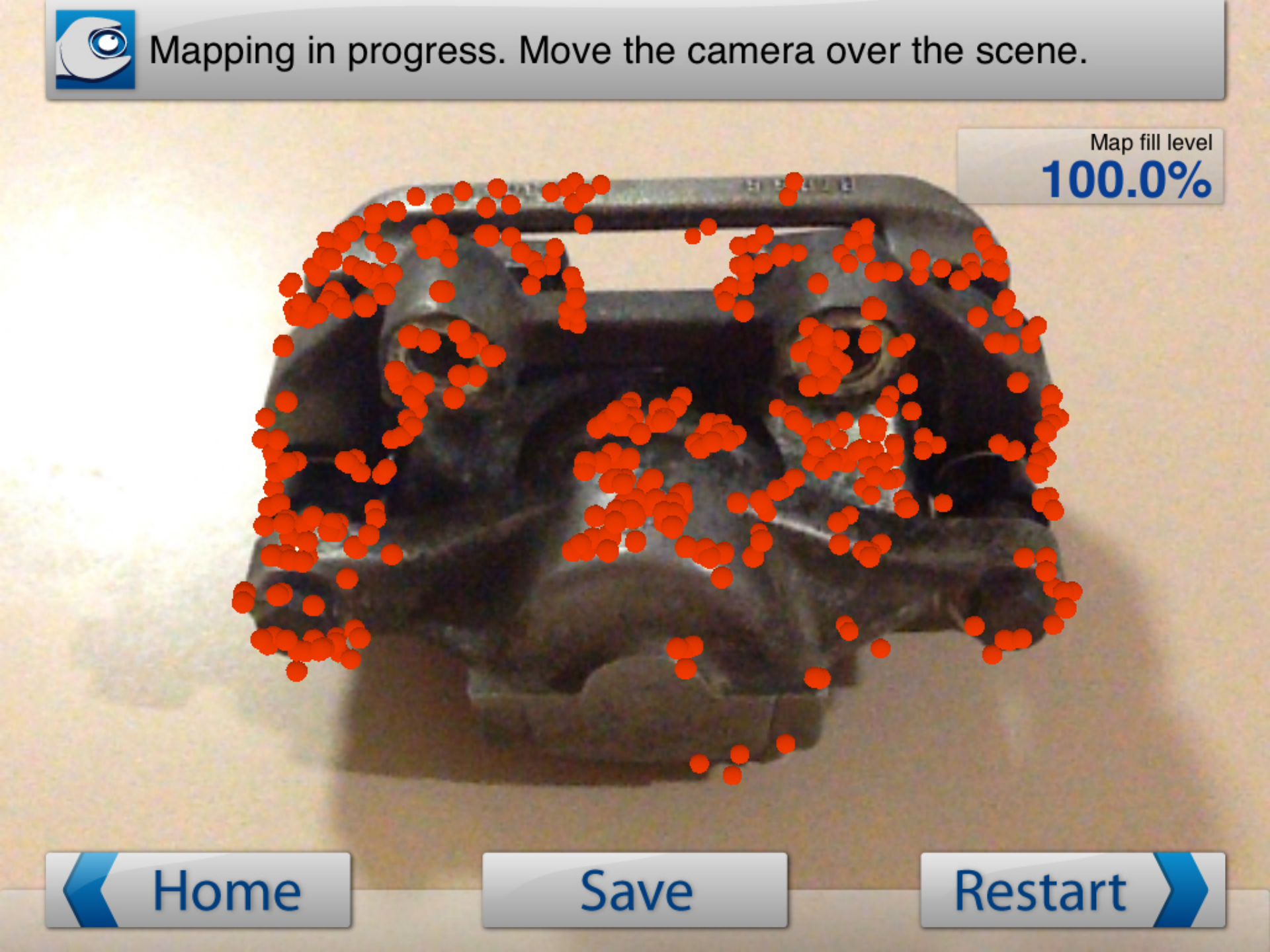
Augmented contextual instruction

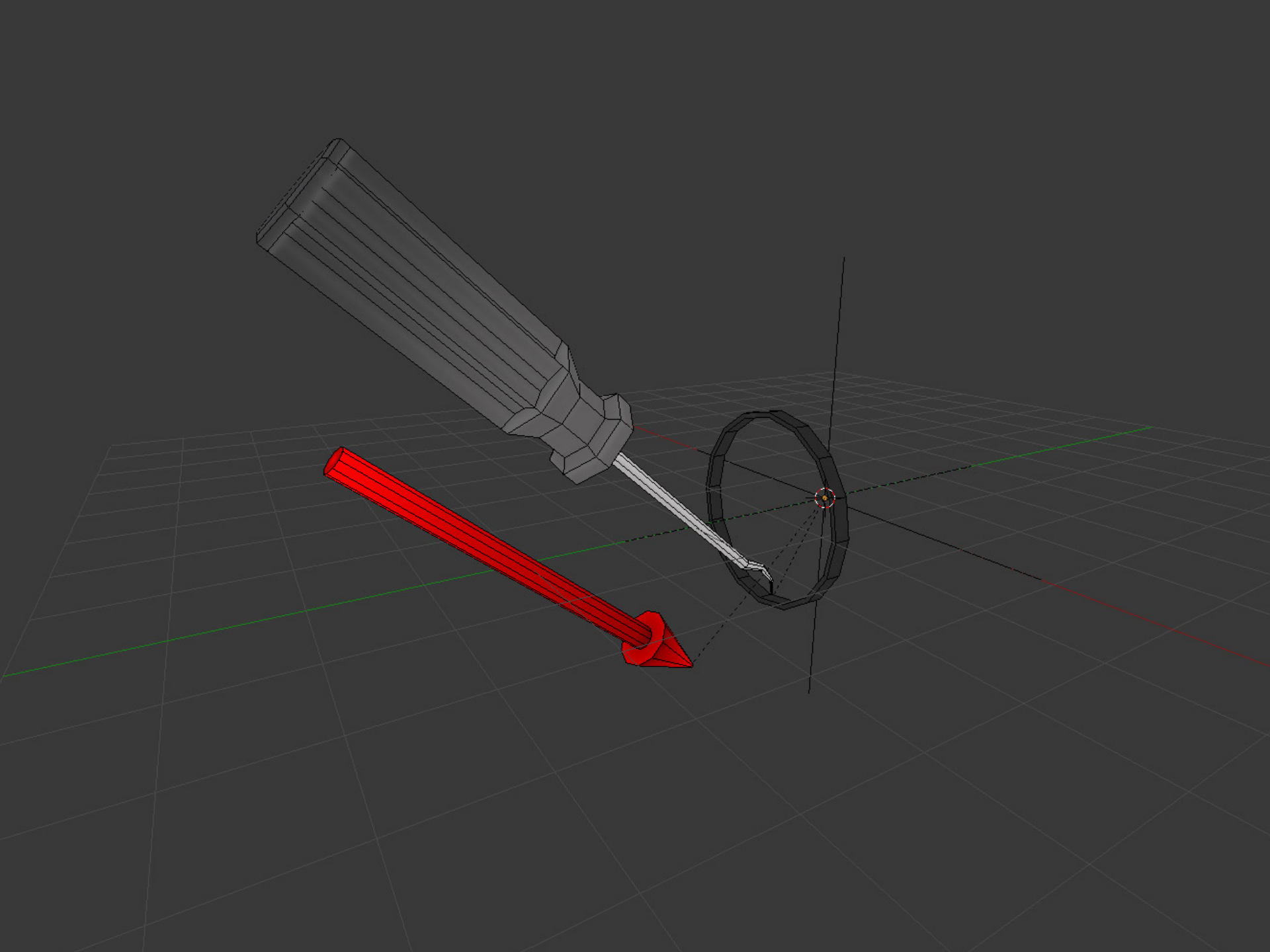


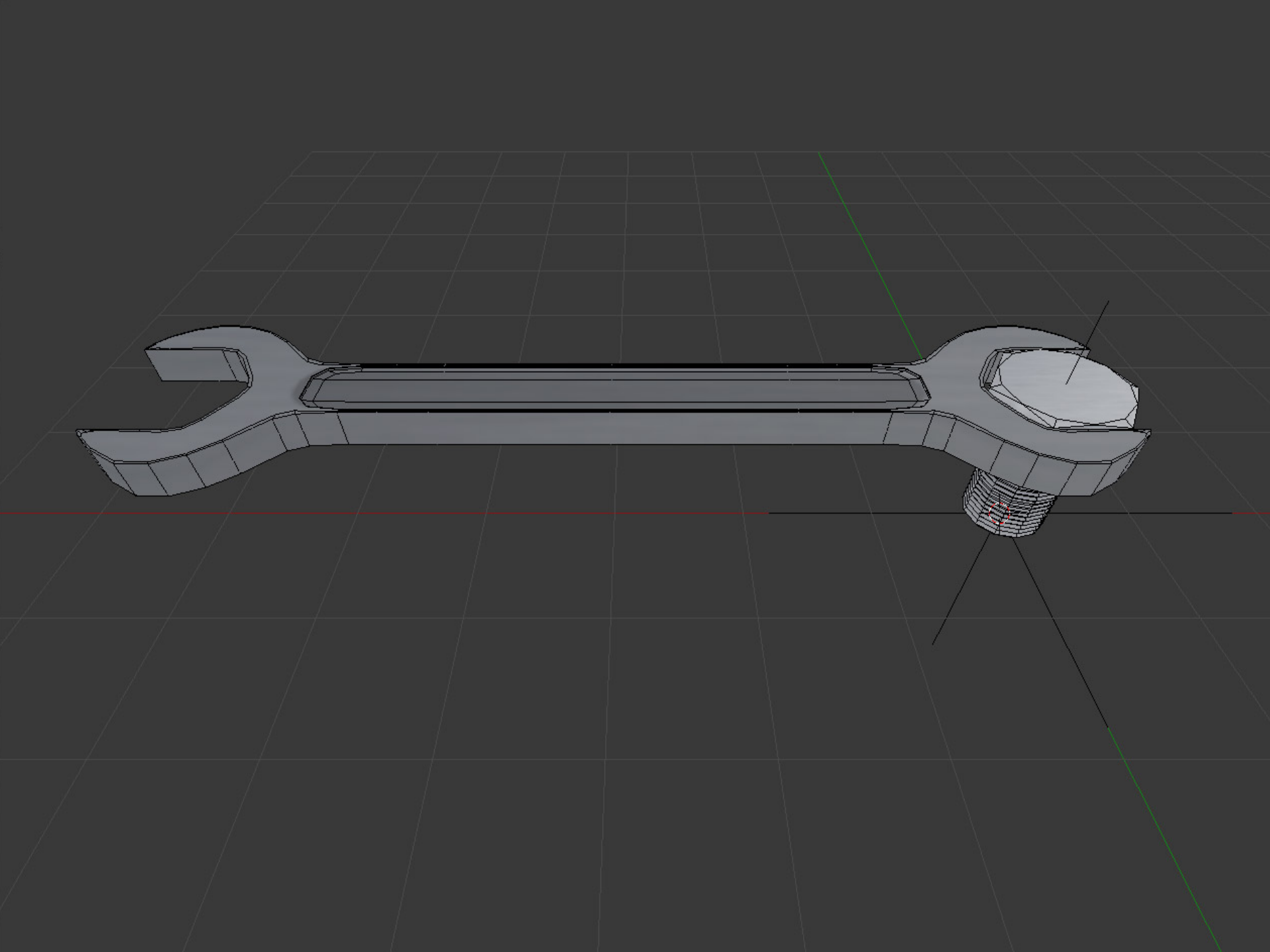

22:50
junaio

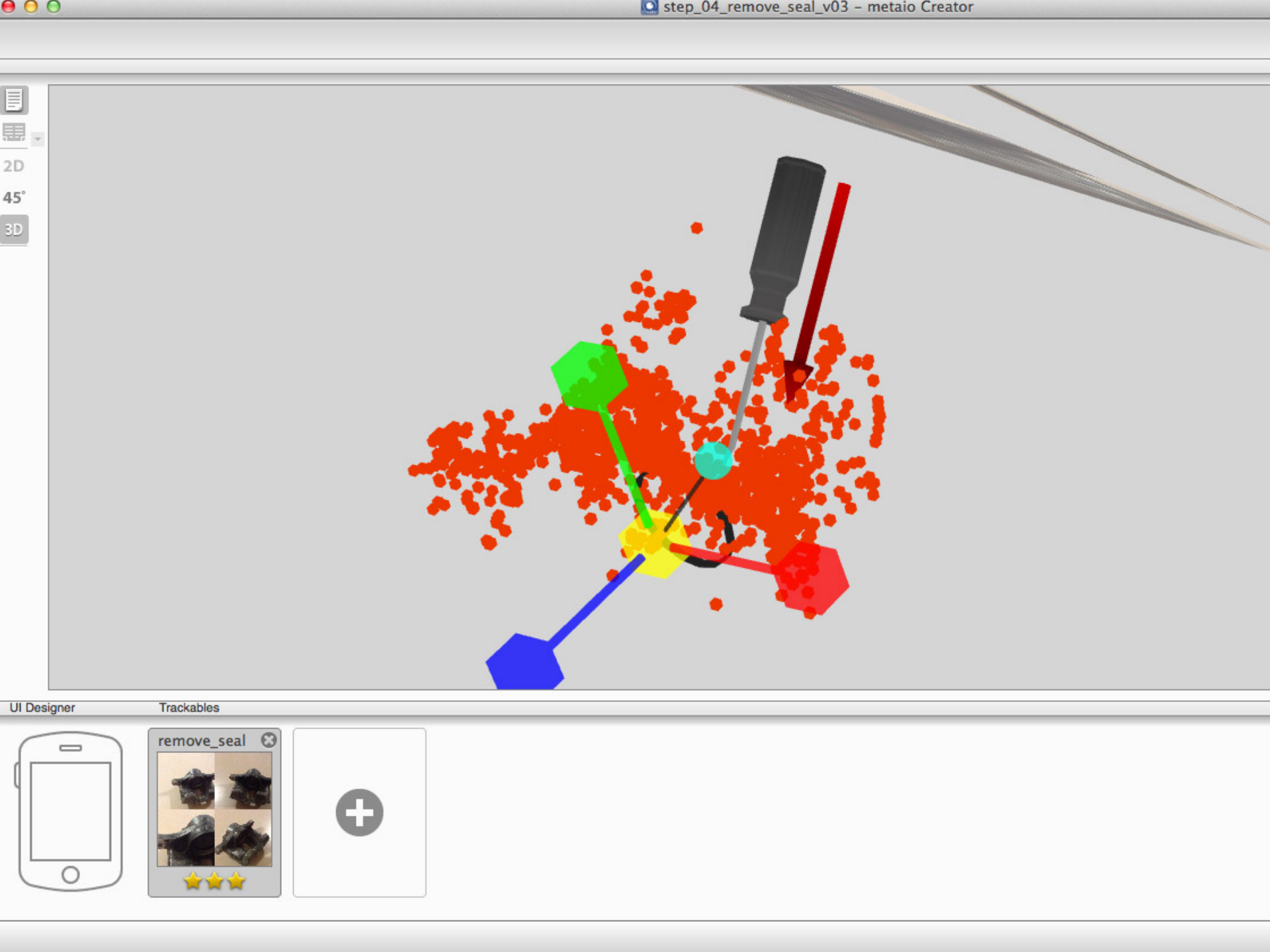

Learning resources for aut
file://localhost/Users/row...
Learning resources for rear brake calipers
Work your way through these automotive related resources to learn more about rear brake calipers, how you can overhaul them and the tools and equipment you need to get the job done.
StudentWeb
If you're a student of Box Hill Institute you can log in to StudentWeb and use the following resources:
902 Automotive Mechanical Technology & Vehicle Body


Step 2: Inspect and clean retaining bolts


Mapping in progress. Move the camera over the scene.
Map fill level
100.0%
Home
Save
Restart



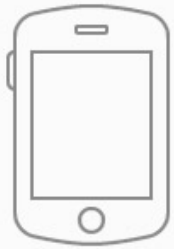


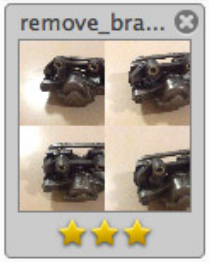

step_04_remove_seal_v03 – metaio Creator
2D
45°
3D
UI Designer
Trackables
remove_seal

*step_01_remove_bracket_v02 – metaio Creator

UI Designer

Trackables





iPad 22:50 69%

Step 4: Remove piston seal from caliper

Rowan Peter for BeLS at BHI

This step shows you how to remove the piston seal from a rear brake caliper. It is the fourth and final step in disassembling a rear brake caliper.

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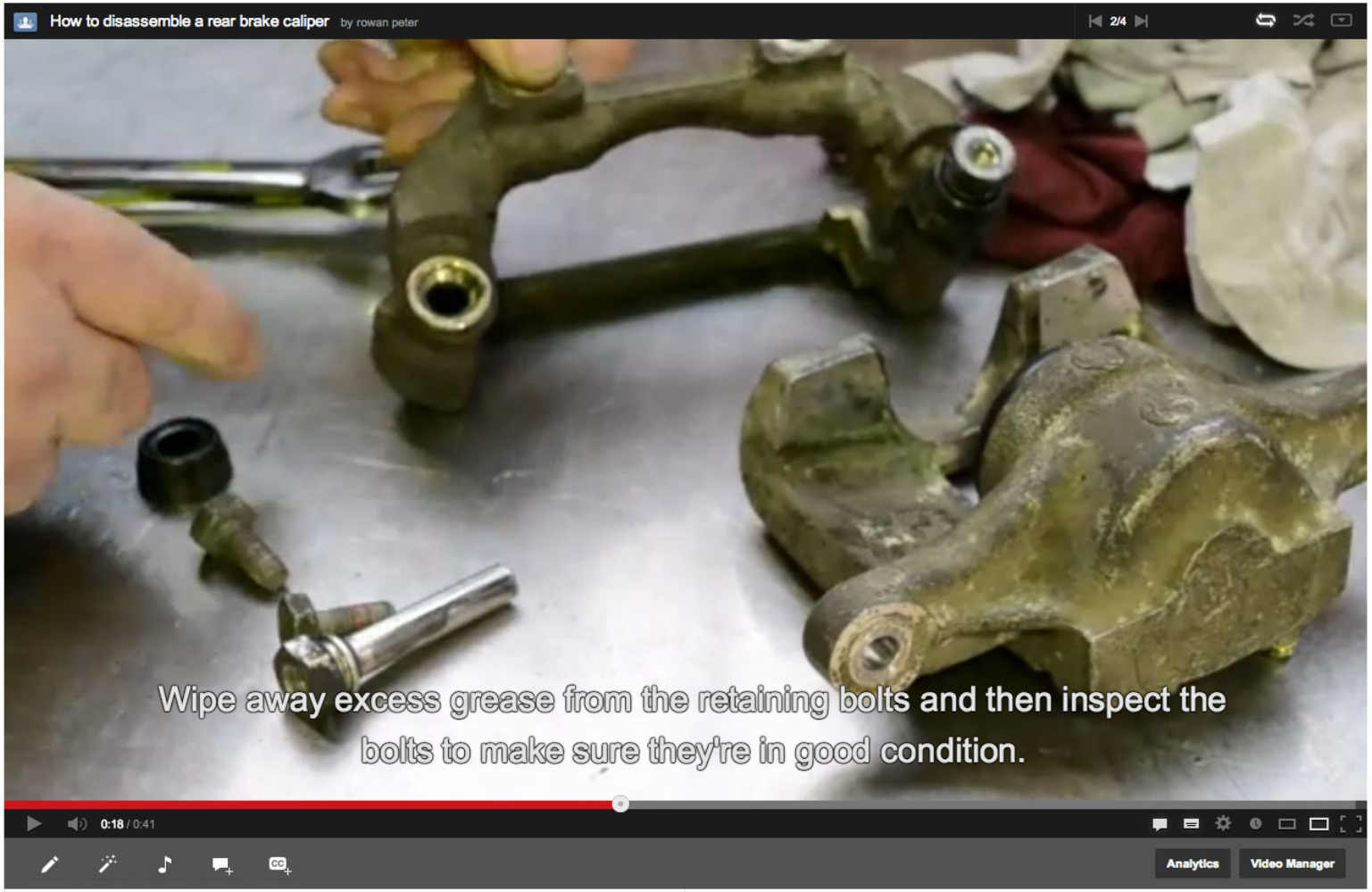
Like this channel!

Share



Step 2: Inspect and clean retaining bolts

rowan peter · 124 videos

Channel settings

5 views

0 0

Like

About Share Add to

Published on 2 Sep 2013
This instructional video is supplementary material for the augmented contextual help I'm developing as part of my VET Development Centre Specialist Scholarship.

Find out more about my augmented contextual help and the work I'm doing for the scholarship on my blog.

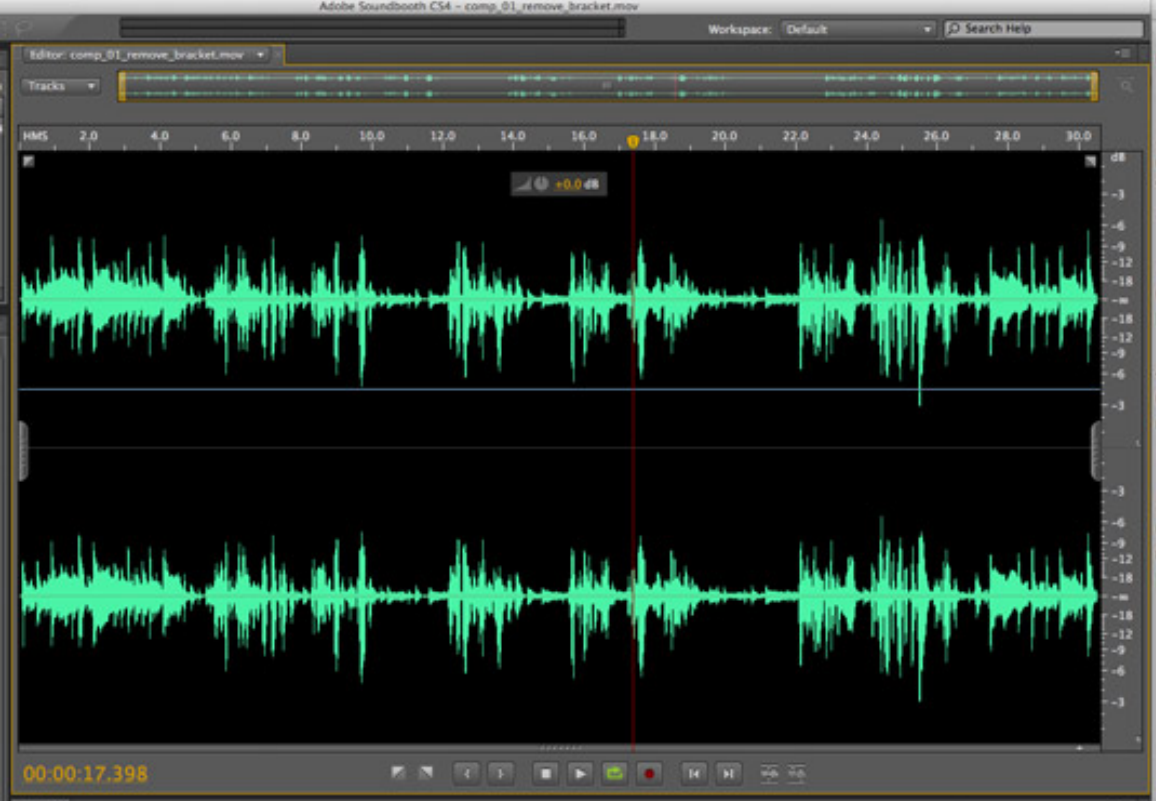
Remix this video!

Step 3: Remove and clean piston
rowan peter
2 views

Step 1: Remove bracket from caliper
rowan peter
5 views

Step 4: Remove piston seal
rowan peter
1 view

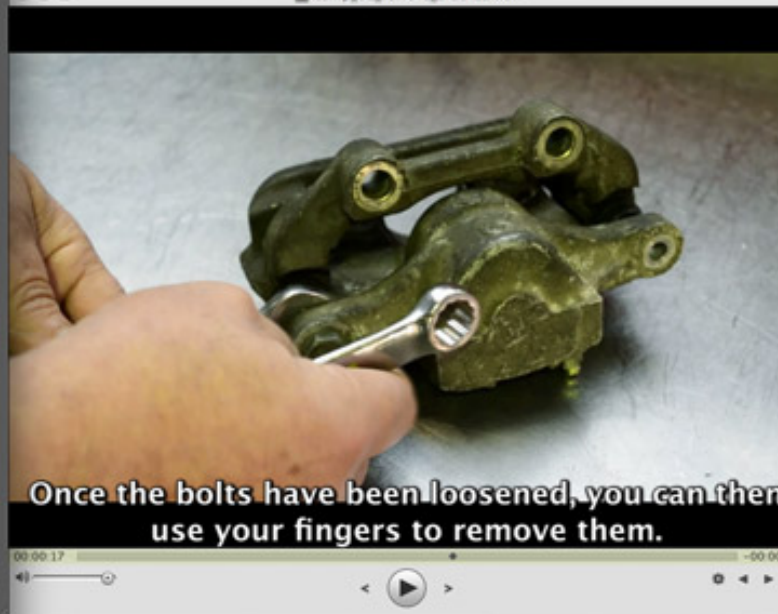
step 01 instruc 640 x 424 H264 60 v01
rowan peter
3 views



comp_01_remove_bracket.srt

```
1
00:00:00,000 --> 00:00:03,000
[Incidental music]

2
00:00:05,271 --> 00:00:11,218
The first step in disassembling a rear brake
caliper is to remove the bracket from the caliper.

3
00:00:012,078 --> 00:00:14,393
Use a spanner to loosen the retaining bolts.

4
00:00:15,468 --> 00:00:19,686
Once the bolts have been loosened, you can then use your fingers to
remove them.

5
00:00:22,011 --> 00:00:26,713
Once the retaining bolts have been removed, you can slide the
bracket away from the caliper.
```

comp_01_remove_bracket.mov



Next steps

- Determine if creating an app is the best way to ensure consistent placement of UI. If so, do it.
- Depart from use of proprietary augmented reality platforms and pricing paywalls. Pursue development of device and platform agnostic augmented contextual instruction and additional augmented reality experiences for display in web browsers that support HTML5 (JSARToolKit with the WEBRTC getUserMedia API).
- Explore the use of XBOX360 Kinect as an alternative to Metaio Toolbox to capture 3D point cloud data (and 3D geometry) required for image and object recognition
- Explore use of wearable technology such as Google Glass to provide hands free contextual instruction without obstruction or interruption. For example, the learner would no longer need to put down their tools or object of interest to activate next step or stage of the contextual instruction.
- Permit creation, customisation and submission of peer and trainer reviewed learner generated contextual instruction to BHI infrastructure such as Generic Competency Units and Apprenticeship Block
- Integrate augmented contextual instruction with existing BHI products such as Mobas and StudentDiary.
- Personalise learner's contextual instruction through analysis and aggregation of their academic submissions to BHI infrastructure.

Project blog

http://rowanpeter.com/tag/specialist-scholarship/