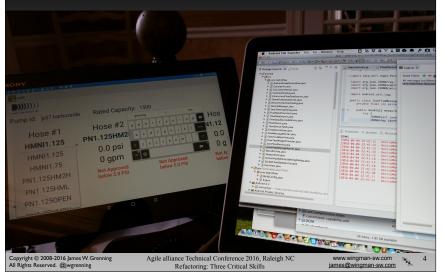
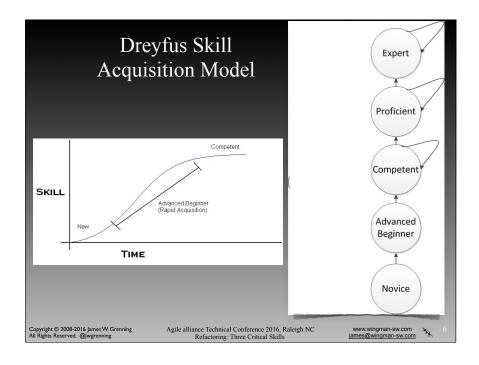
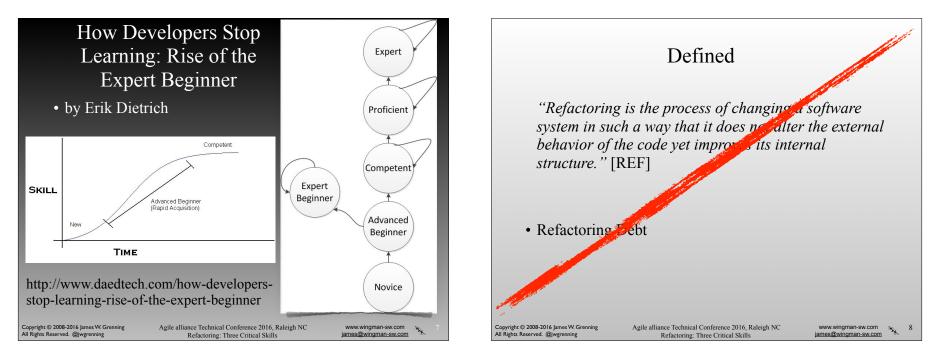


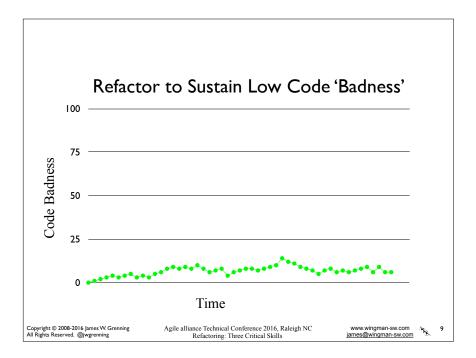
The Programming App-titude Test

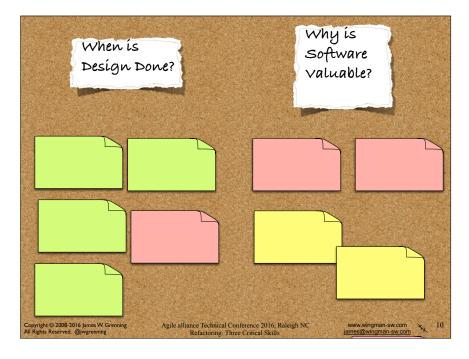


Getting an app to work is the app-titude test for a programmer. There is a lot more to programming than just getting your app to work Copyright © 2008-2016 James W. Grenning All Rights Reserved. @jwgrenning Agile alliance Technical Conference 2016, Raleigh NC www.wingman-sw.com james@wingman-sw.com Refactoring: Three Critical Skills

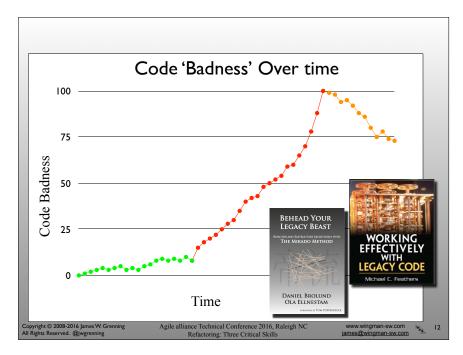


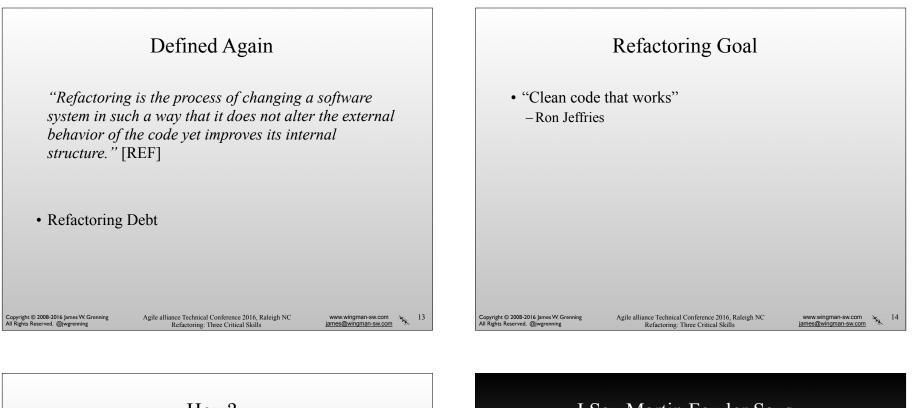










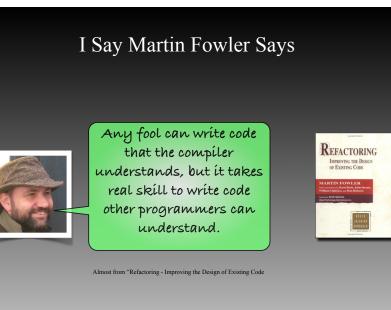


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How?
Remove duplication
Fix bad names

 J.B. Rainsberger

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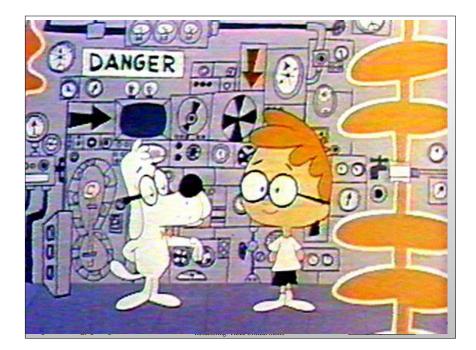
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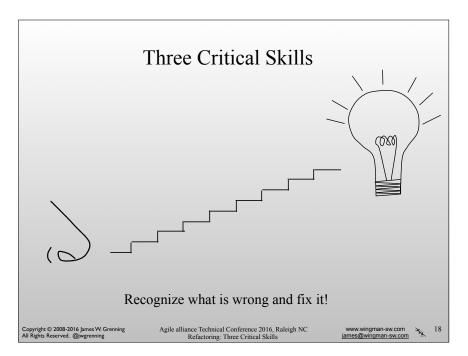
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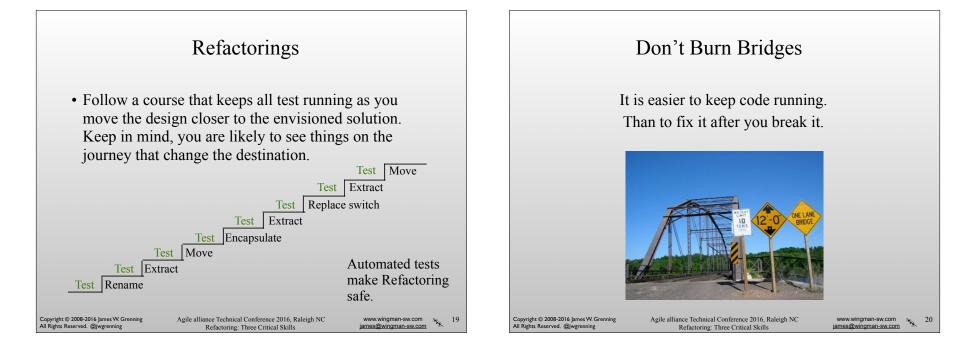
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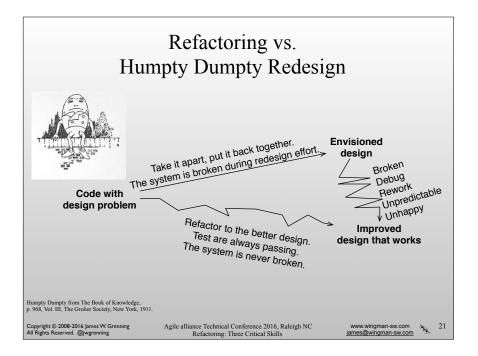
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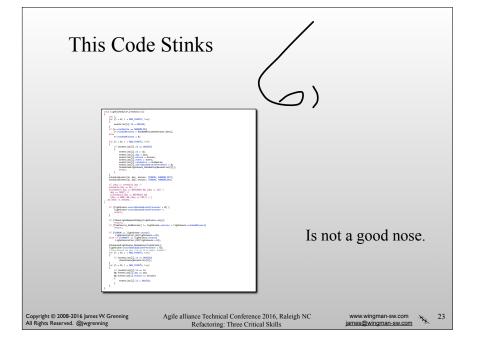










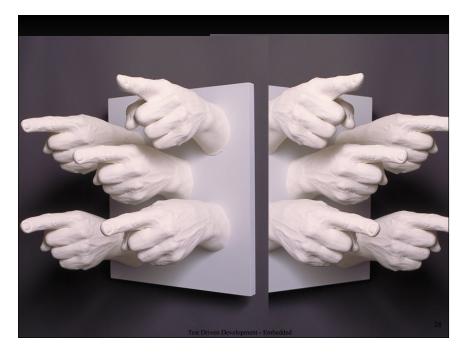










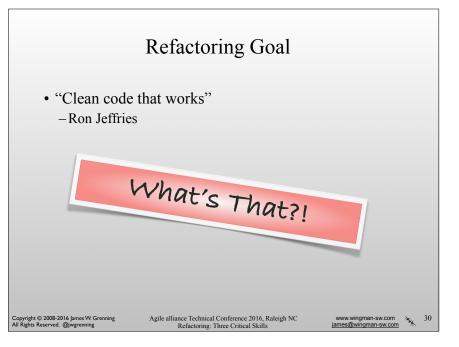


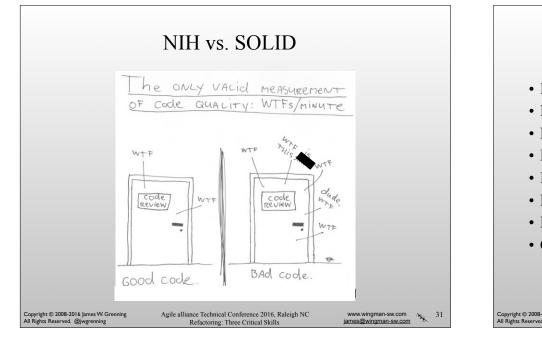
Why Did You Do It?

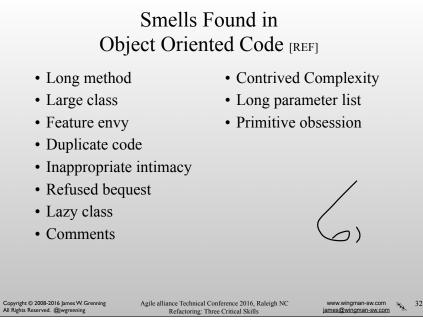


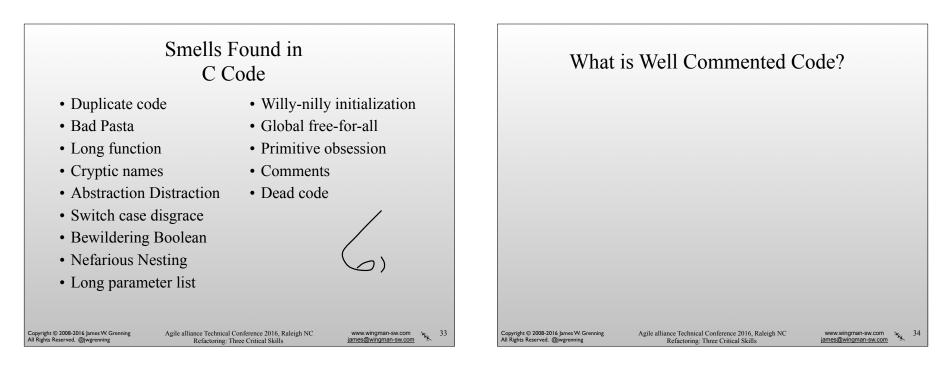
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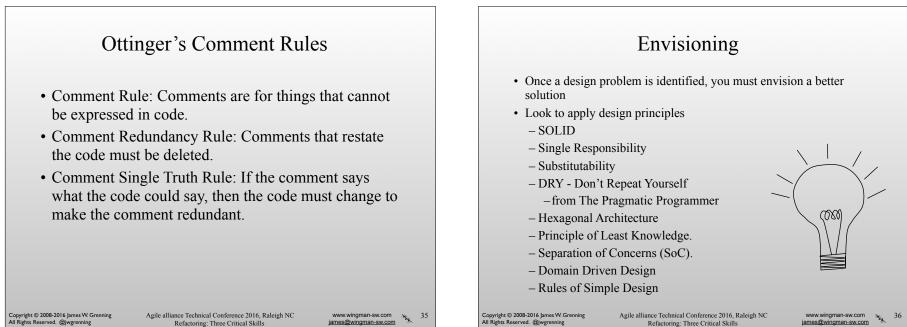


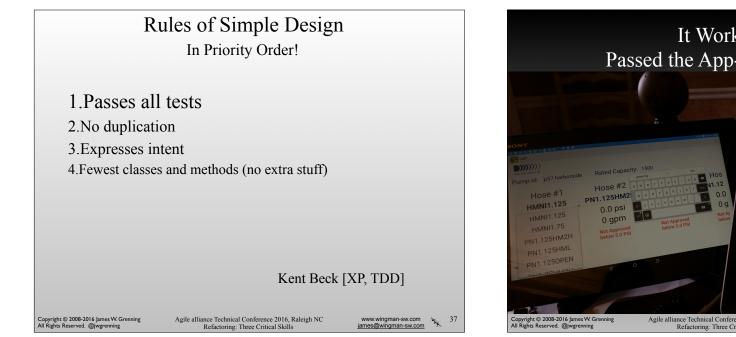


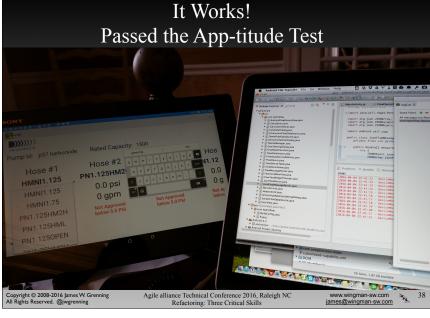


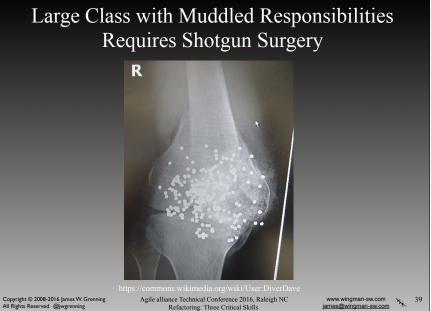


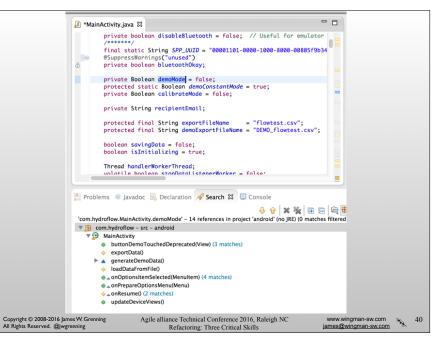






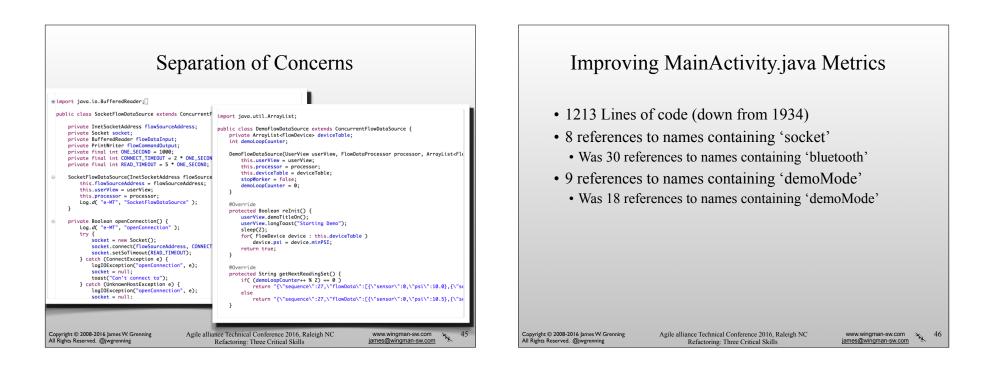


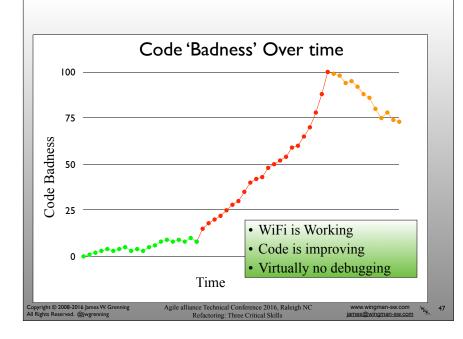




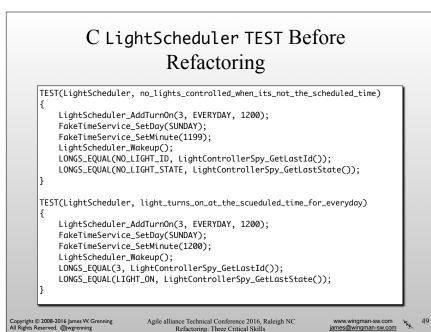
Add WiFi Data Source MainActivity.java Metrics • Bluetooth and Demo Data is already supported. • 1934 Lines of code • It should be pretty east, right? • 30 references to names containing 'bluetooth' • 18 references to names containing 'demoMode' Copyright © 2008-2016 James W. Grenning All Rights Reserved. @jwgrenning Copyright © 2008-2016 James W. Grenning All Rights Reserved. @jwgrenning Agile alliance Technical Conference 2016, Raleigh NC 41 Agile alliance Technical Conference 2016, Raleigh NC 42 www.wingman-sw.com www.wingman-sw.com m X Refactoring: Three Critical Skills james@wingman-sw.com Refactoring: Three Critical Skills james@wingman-sw.com











C LightScheduler TEST with Code **Duplication Removed** TEST(LightScheduler, no_lights_controlled_when_its_not_the_scheduled_time) WhatTheHeckDoICallThisFunciton(3, EVERYDAY, 1200,

SUNDAY, 1199, 3,LIGHT_ON);

SUNDAY, 1199. NO_LIGHT_ID, NO_LIGHT_STATE);

TEST(LightScheduler, light_turns_on_at_the_scueduled_time_for_everyday) WhatTheHeckDoICallThisFunciton(3, EVERYDAY, 1200,

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C LightScheduler TEST with 'Idea' **Duplication Removed**

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TEST(LightScheduler, no_lights_controlled_when_its_not_the_scheduled_time)

LightScheduler_AddTurnOn(3, EVERYDAY, 1200); TransitionClockTo(SUNDAY, 1199); LIGHTS_ARE_UNCHANGED;

TEST(LightScheduler, light_turns_on_at_the_scueduled_time_for_everyday)

LightScheduler_AddTurnOn(3, EVERYDAY, 1200); TransitionClockTo(SUNDAY, 1200); THEN_LIGHT_IS_ON(3);

Donald Knuth Says

Let us change our traditional attitude to the construction of programs. Instead of imagining that our main task is to instruct a computer what to do, let us concentrate rather on explaining to human beings what we want a computer to do.



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