# Sending Feedback to Apple An Insider's Guide

James Dempsey

**Tapas Software** 







# Reverb



#### Goals

- Strategies to maximize the chances that Apple acts on the feedback you provide
- Have some fun

# Getting on the Radar







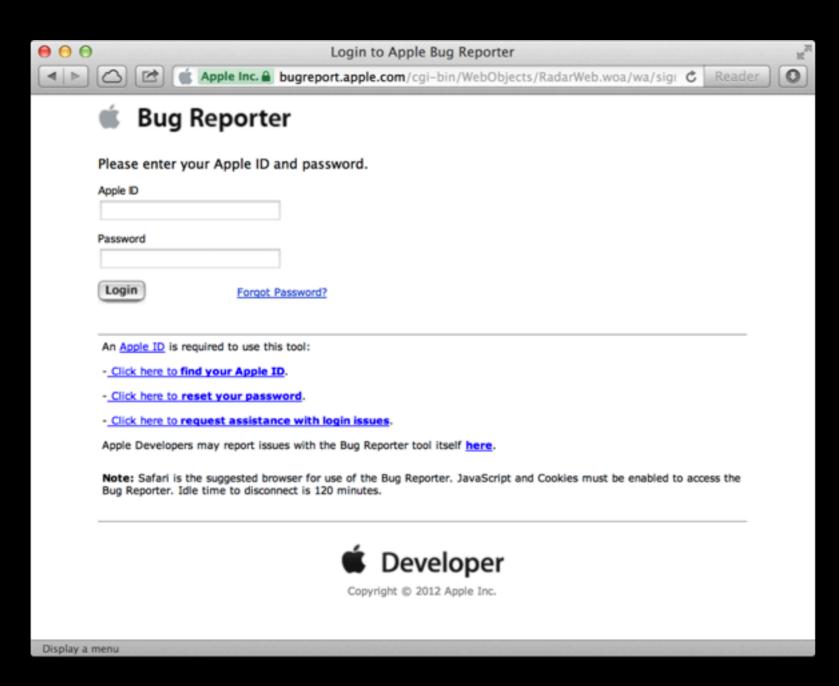
## Corollary:

Don't Assume Someone Else Will Report An Issue

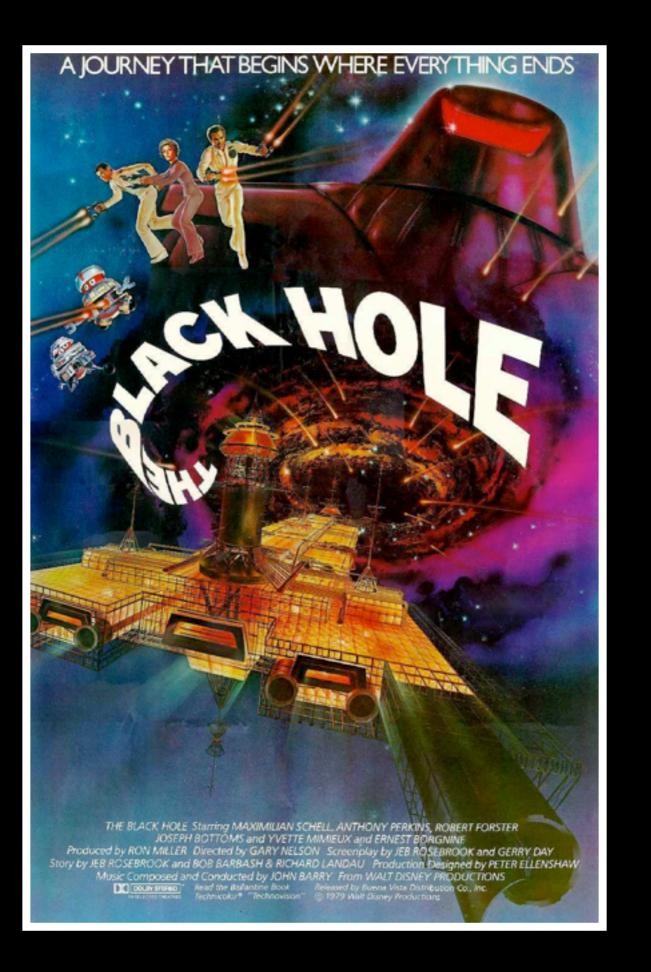
# Getting on the Radar

# The Bugflow

#### bugreporter.apple.com





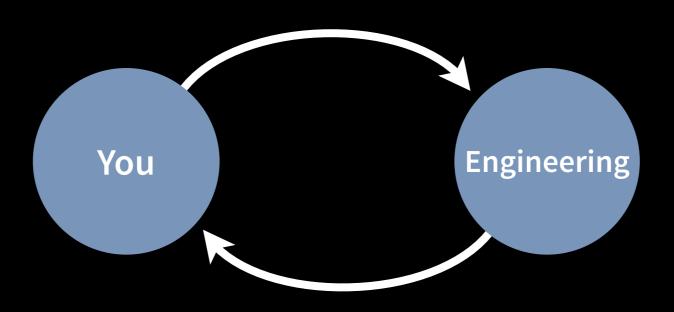


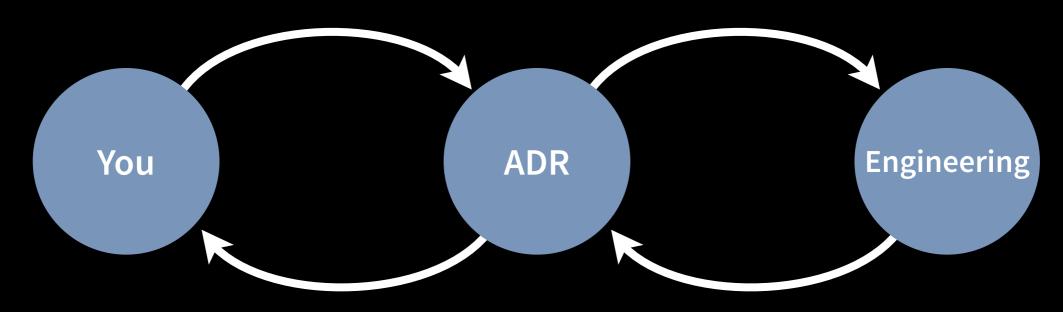
#### Sending Bugs To Apple



#### Bugs Go To Human Beings







Duplicate
Info Request
Verify

## Action

#### **Action Factors**

- Time
  - Fix Time
  - Schedule
- Impact
- Risk
- Alignment

The time it takes to understand, reproduce, fix and test a bug

The time it takes to understand, reproduce, fix and test a bug

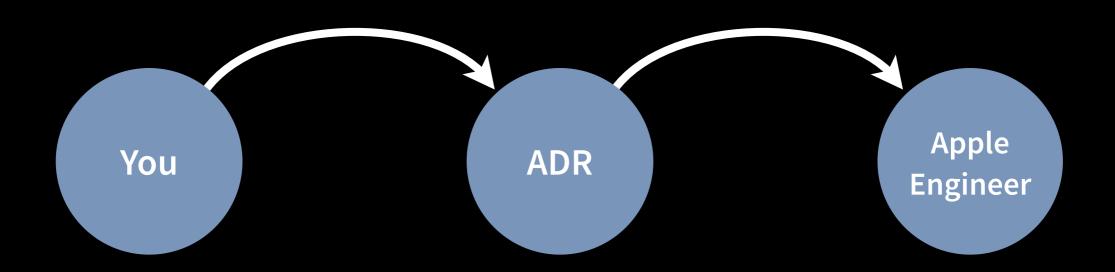
# Write Good Bugs



# Write Good Bugs As Soon As Possible

### Best Case

#### Report Bug



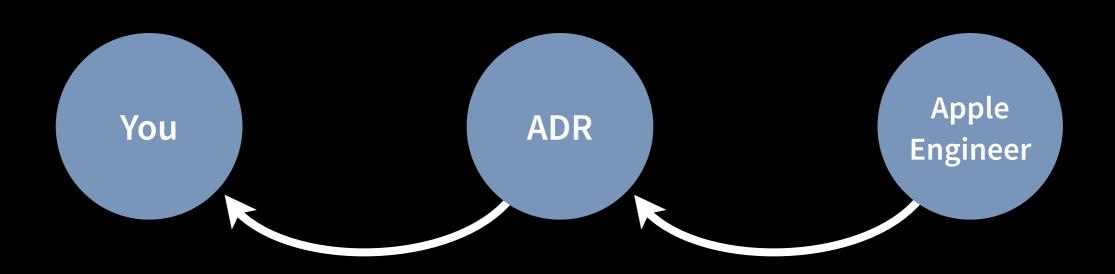
# Understand, Reproduce, Fix, Test



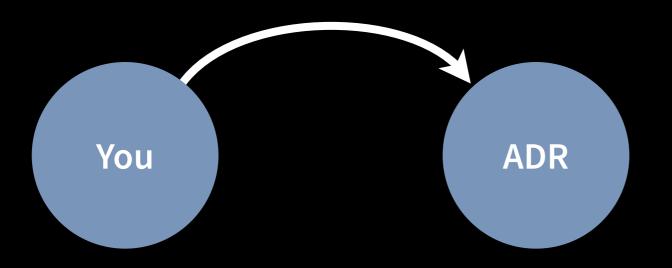




#### **Notify Originator**



#### Verify Fix

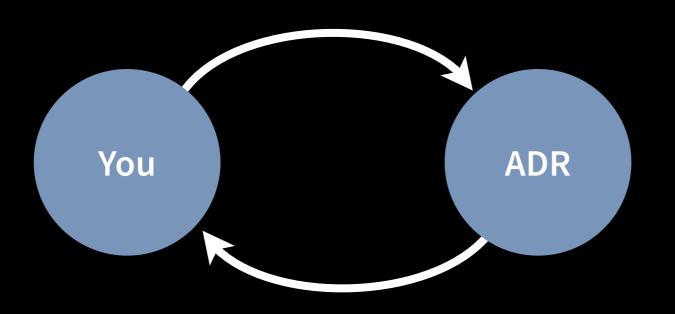


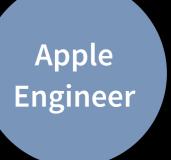


# The Round Trip

#### Round Trip - Version A

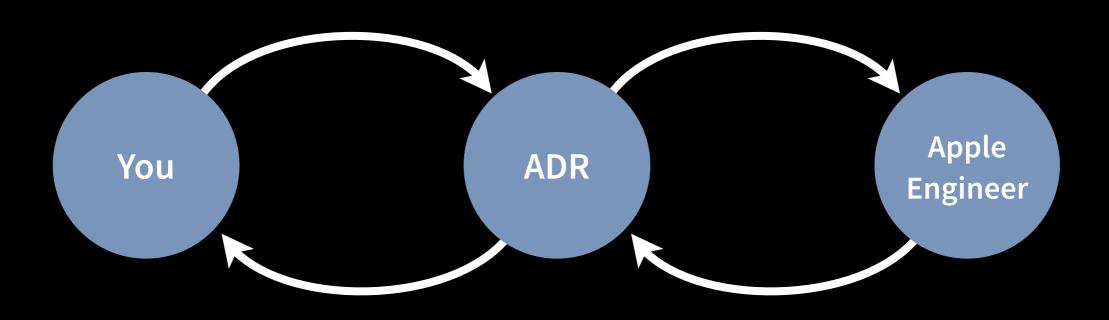
**Issue: Not Enough Info** 





## Round Trip - Version B

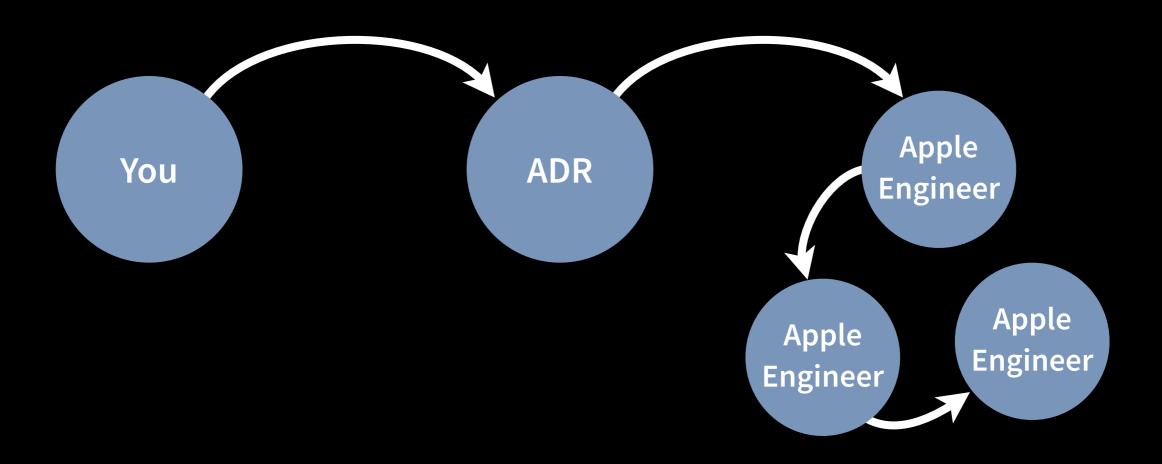
**Issue: Not Enough Info** 



# The Pinball

### The Pinball

Issue: Unclear bug description



# Time

The time it takes to understand, reproduce, fix and test a bug

# Write understandable bugs Both the Title and the Description

- Clear
- Concise
- Specific
- Actionable

• Excellent Resource And Tips:

https://developer.apple.com/bugreporter/bugbestpractices.html

## Bad Bug

Title: Printing is Completely Broken

**Description:** 

Printing is completely broken when I try to print

### A little bit better bug

Title: Can't print from Safari

#### **Description:**

I installed the latest seed and I can no longer print from Safari

### An even better bug

Title: Can't print from Safari on HP Laser Jet 2701

#### **Description:**

I installed the latest seed and I can no longer print from Safari on my HP Laser Jet 2701.

I was able to print from other applications. It seems that only Safari is having this problem.

I checked the console log, but did not find any log messages.

### A non-actionable bug

**Title:** The new UI in <app of choice> sucks.

#### **Description:**

The new UI in <app of choice > sucks. I really hate it.

### Avoid the laundry list

Title: Lots of problems with new build

### **Description:**

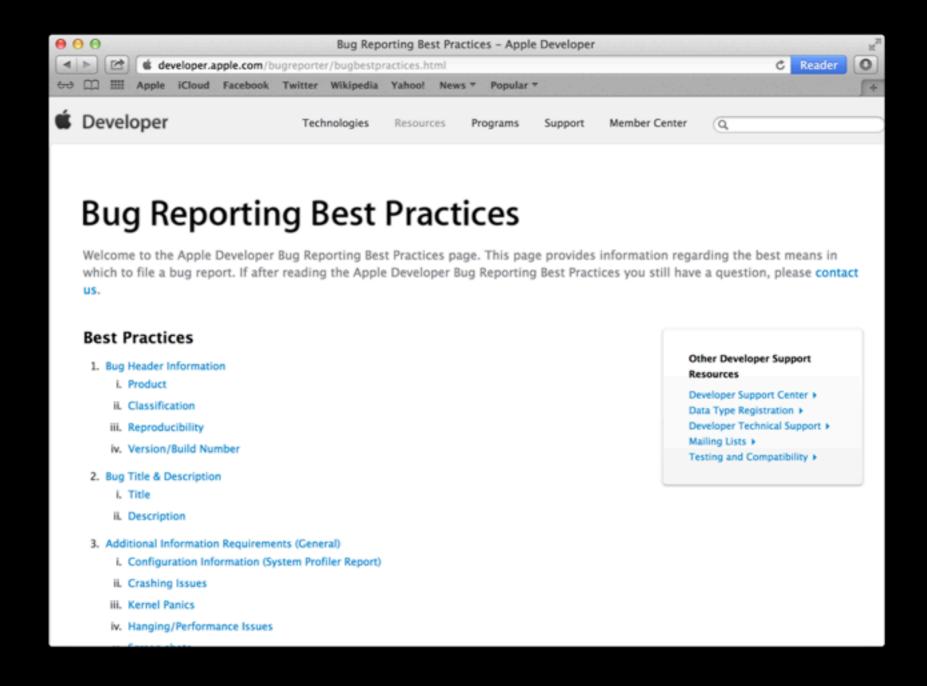
Here are a bunch of problems I found in the new build:

## Some tips for better understanding

- Edit before submitting
- Try to use correct terminology
- One issue = one bug report
- Explain what you are trying to accomplish
- Steps to reproduce
- Include pertinent logs and info
  - crash logs
  - console logs
  - screenshots
  - Instruments documents

### **Apple Best Practices**

• https://developer.apple.com/bugreporter/bugbestpractices.html



# Time

The time it takes to understand, reproduce, fix and test a bug

## A reproducible test case is like gold

### Make it as easy as possible to repro

- Accurate, step-based reproduction steps
  - Use screen shots to help explain if necessary
- Sample project demonstrating the issue
  - Helps reduce the time needed to understand, reproduce, and test the issue.
  - Helps ensure the issue is not actually in your code

• It is better to file and add more info later than to not file at all.

## Include relevant logs and info

- Console logs
- Crash logs
- Instruments documents
- Screenshots
- System Profile

### Follow Up

• The ball is back in your court

• If you don't provided needed info, things are stuck

### Verify

- Lots of time has gone into this bug already
- Sometimes the issue isn't resolved
- Verifying quickly can help get the issue resolved

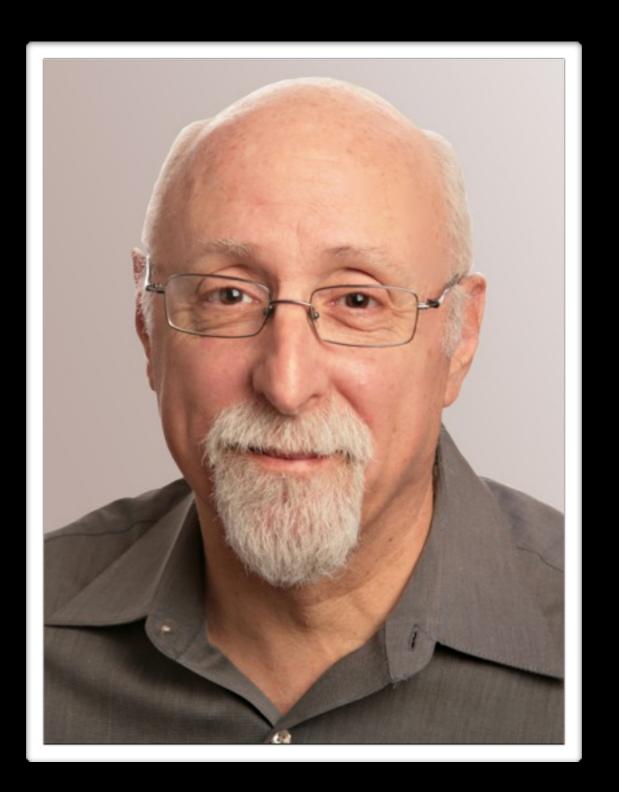
### Avoid the 'one more thing...'

- Great for keynotes, bad for bug verification
- Verify the issue in the bug is fixed
- Don't bring up another issue in the same bug.
  - File a new bug instead.

# Impact

### Duplicates

- Don't worry about filing duplicates
- The number of duplicates helps indicate impact of a bug
- Sometimes the best reproducible case comes in a duplicate



# Alignment





## Bugs are not anonymous

### The 'Emotional Blackmail'

"I really want to use OS X.

But if you don't fix this bug, I am going to have to switch to [Windows | Ubuntu | ChromeOS | Amiga]."

### The 'Ultimatum'

"Fix this bug in Safari, or else I will switch to [Firefox | Chrome | Lynx]."

### The 'Trivializer'

"It should be trivial to..."

## The 'Suck Up'

"You guys are the best. I've been using Macs since I bought my first Mac Plus in 1986..."

### The 'Snarkfest'

"My iMac has 2560 horizontal pixel. Please consider using them."

### The 'It Couldn't Be Me'

"It looks like objc\_msgsend() is completely broken"

## The 'Angry Ranter'

"The entire team should be taken out and fired! Whoever put this in is clearly the most idiotic engineer ever to walk the face of the earth!"

## The 'Alarmist'

"If this bug isn't fixed, the Mac will be ruined forever."

### The 'Rambler'

"When I first installed the latest build, I thought that maybe the Finder was running more slowly, but then I thought it could be the new hard drive I had just connected. After going out for dinner with my wife for our anniversary, I noticed that..."\*

\*It's a bug report, not a counseling session

### The most hard core method

- 1. File bug
- 2. Go work for team at Apple
- 3. Fix bug

# NSGradient

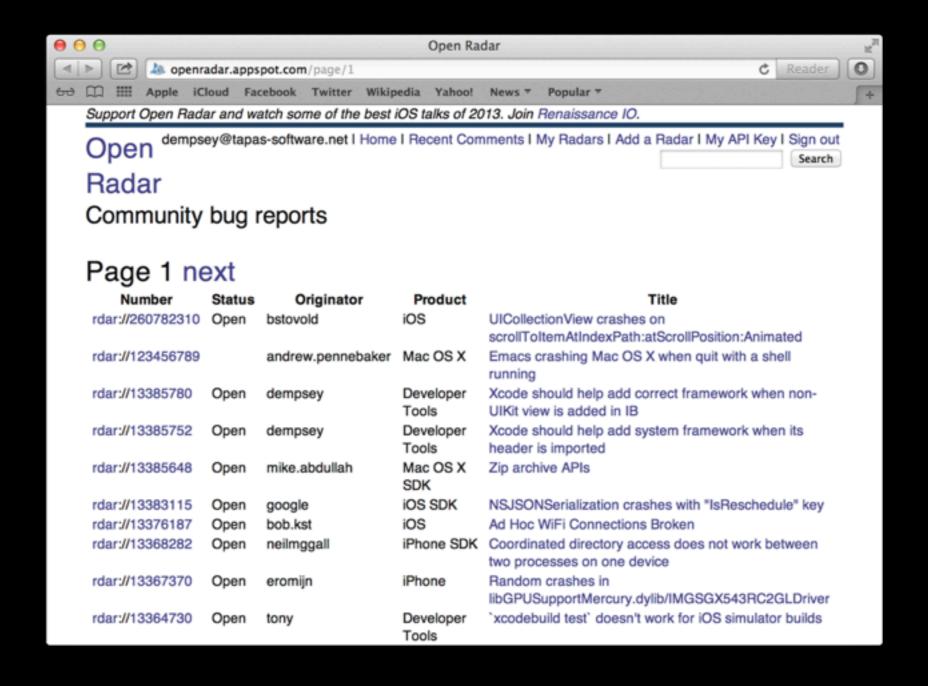
### **Action Factors**

- Time
  - Fix Time
  - Schedule
- Impact
- Risk
- Alignment

# Write Good Bugs As Soon As Possible

### Open Radar

http://openradar.appspot.com



### Resources and Contact Info

#### **Apple Best Practices**

https://developer.apple.com/bugreporter/bugbestpractices.html

#### **Open Radar**

http://openradar.appspot.com

#### **James Dempsey**

http://jamesdempsey.net

@jamesdempsey

#### **Tapas Software**

http://tapas-software.net