### Sending Feedback to Apple An Insider's Guide

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#### 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

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Please enter your Apple ID and password.	Please enter your Apple ID and password.
Apple ID	Apple ID
Password	Password
Login Forgot Password?	Login Forgot Password?
An Apple ID is required to use this tool:	An Apple ID is required to use this tool:
Click here to find your Apple ID. Click here to reset your password.	- <u>Click here to find your Apple ID</u> .
- Click here to request assistance with login issues.	- Click here to reset your password.
Apple Developers may report issues with the Bug Reporter tool itself here.	- <u>Click here to request assistance with login issues</u> .
Note: Safari is the suggested browser for use of the Bug Reporter. JavaScript and Cookies must be enabled to access the Bug Reporter. Idle time to disconnect is 120 minutes.	Apple Developers may report issues with the Bug Reporter tool itself <u>here</u> .
É Developer	Note: Safari is the suggested browser for use of the Bug Reporter. JavaScript and Cookies must be enabled to access the Bug Reporter. Idle time to disconnect is 120 minutes.
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Display a menu	



#### Sending Bugs To Apple



#### Bugs Go To Human Beings







Action

#### **Action Factors**

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

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

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# Write Good Bugs



# Write Good Bugs As Soon As Possible

Best Case

#### Report Bug



#### Understand, Reproduce, Fix, Test



#### Notify Originator



# Verify Fix Apple You ADR Engineer

The Round Trip

#### Round Trip - Version A Issue: Not Enough Info


#### Round Trip - Version B Issue: Not Enough Info

# You ADR Apple Engineer

The Pinball

#### The Pinball Issue: Unclear bug description

#### You ADR Apple Engineer Apple Engineer Apple Engineer

# 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



- iii. Kernel Panics
- iv. Hanging/Performance Issues

# 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**

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  - Fix Time
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# 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