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CSIT 101

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**Assignment 1: Information Literacy

1. The article**

Today's the day that the iPhone 6 finally falls into the sweaty paws of the masses. And one of the first iPhone 6 Pluses off the production line has fallen into the hands of the iFixit team and is immortalized in their latest teardown. Inside the iPhone 6 Plus are an array of chips from a number of vendors including Qualcomm, Broadcom, NXP, Texas Instruments, and Avago. And taking pride of place in the middle of all that is Apple's own A8 processor, and that's teamed with 1GB of Elpida LPDDR3 RAM. Here is a listing of the chips that have so far been identified:

Apple A8 APL1011 SoC + Elpida 1 GB LPDDR3 RAM (as denoted by the markings EDF8164A3PM-GD-F)

 NXP LPC18B1UK ARM Cortex-M3 Microcontrollers (which is the proper name for the M8 motion coprocessor)

 Qualcomm MDM9625M LTE Modem

 Skyworks 77802-23 Low Band LTE PAD

 Avago A8020 High Band PAD

 Avago A8010 Ultra High Band PA + FBARs

 TriQuint TQF6410 3G EDGE power amplifier module

 InvenSense MP67B 6-axis gyroscope and accelerometer combo

 Qualcomm QFE1000 Envelope Tracking IC

 RF Micro Devices RF5159 Antenna Switch Module

 SkyWorks 77356-8 mid Band PAD

 SK Hynix H2JTDG8UD1BMS 128 GB (16 GB) NAND Flash

 Murata 339S0228 Wi-Fi Module

 Apple/Dialog 338S1251-AZ Power Management IC

 Broadcom BCM5976 Touchscreen Controller

 NXP 65V10 NFC module (likely contains an NXP PN544 NFC controller inside)

 Qualcomm WTR1625L RF Transceiver

 Qualcomm WFR1620 receive-only companion chip

 Qualcomm PM8019 power management IC

 Texas Instruments 343S0694 touch transmitter

 AMS AS3923 boosted NFC tag front end

 Cirrus Logic 338S1201 audio codec

According to Sterne Agee analysts Vijay Rakesh and Troy Cowdrey the biggest winders are Avago, SkyWorks and NXP, who have seen component content for the iPhone 6 increase by 30 to 90 percent compared to the iPhone 5S. Qualcomm also gains more carrier aggregation, and the NAND boost to 128GB is also good for memory suppliers Micron and Sandisk.

The battery is a monster 43 gram unit and is rated at 3.82 V and 11.1 Wh of energy, for a total of 2915 mAh, which is nearly double the capacity of the battery found inside the iPhone 5S, and slightly bigger than the battery inside the Galaxy S5. The new battery gives the iPhone 6 Plus up to 24 hours on 3G, and 384 hours of standby time, which is a huge increase over both the iPhone 5S and the iPhone 6.

There are also many more internal improvements that apple has made to the iPhone 6 Plus. The new iSight camera features phase-detection autofocus – common on DSLRs but relatively new to smartphones – and optical stabilization.

However, when it comes to the protruding "camera nubbin," even iFixit are worried about the impact and impact might have on it (pun fully intended).

"The lens cover may be made out of sapphire glass, but we're still concerned about what this design choice might mean for durability," iFixit writes in their teardown piece.

Also new is the vibrator assembly that replaces the old style "motor with an off-set weight" with an electromagnet that vibrates a weight. It's a pretty cool and novel approach to vibrations. I suspect the new design is not only more robust, but allows for a greater range of vibrations.

The power and volume buttons on the new iPhone now feature a rubber gasket that should help with keeping dirt, dust and moisture from making its way inside the handset.

iFixit awarded the iPhone 6 Plus a repairability score of 7 out of 10 (where 10 is the easiest to repair). Praised was the ease of access and how simple screen and battery replacements, and the fact that the fingerprint sensor cable has been rerouted and lengthened (the previous design made tearing the cable easy when opening the handset). However, they criticized the use of proprietary Pentalobe screws and the fact that Apple doesn't share repair information with third-parties.

**2. Summary**

Reading through this article, one can find a lot of interesting information regarding the new iphone 6-Plus. It is Apple’s widest iphone-5.5 inches its screen- and the best one, overall, so far. This iphone has Apple’s own unique A8 processor and paired with 1GB of Elpida LPDDR3 RAM it delivers a very rapid processing. Its battery is a monster 43 gram unit , which is nearly double the capacity of the battery found inside the iPhone 5S, and slightly bigger than the battery inside the Galaxy S5. There are also many more internal improvements that Apple has made to the iPhone 6 Plus. The new iSight camera features phase-detection autofocus – common on DSLRs but relatively new to smartphones – and optical stabilization. Only drawback for the Iphone 6-plus is that the lens cover may be made out of sapphire glass, but experts are concerned about what this design choice might mean for durability. Overall, the new Iphone 6-Plus seems to be a great release by Apple.

**3. I found two more articles related to the one I chose to talk about.**

The first article’s link is: <http://thenextweb.com/apple/2014/09/19/ifixit-opens-up-apples-iphone-6-plus-to-peek-at-its-huge-battery-and-the-rest-of-its-innards/> and I found it using the Yahoo search engine.

The second link is: <http://www.nytimes.com/2014/09/17/technology/personaltech/review-and-video-with-new-iphone-6-and-6-plus-its-whats-inside-that-counts.html?_r=0> and I found it using the Bing search engine. For my original article I used the Google search engine.

 All three search engines yielded several results but Google’s search engine seems to have an edge over the other, probably because it is more reputable than the Bing or Yahoo search engine. All three articles were very related to each other and all three of them contained the same accurate information regarding the new Iphone.

**4. TRAAP**
The article I choose to TRAAP is the second link I have posted in the previous question. It’s a New York Time’s link.

*Time*- It was posted on September 16th 2014.
*Relevance*- It completely covers my topic and answers to any questions I would have regarding the Iphone 6-Plus.
*Authority*- Molly Wood is the author of the article. She is a very knowledgeable person. According to the New York Times’ site, “Molly Wood has covered the technology industry for 15 years as a reporter, commentator, critic, podcaster and video host. She once jumped out of a helicopter to test a smartphone’s camera capabilities.”
*Accurate-* It is a very accurate article with a lot of valid information. It is an article posted in NYT’s internet site which if one of the most well-known-credible-well-respected informational sites.
*Purpose-* The article was typed and published to inform all people about the new Iphone 6-Plus. It is not typed in a persuasive way, nor is the author biased. She provides ALL the information there is for the Iphone 6-Plus whether that’s good or bad. It seems like a very material objective article.

**5. Two scholarly journal articles**I found two journal articles regarding the Iphone 6-plus. The first one is, <http://eds.b.ebscohost.com/eds/detail/detail?vid=5&sid=3f8ca387-005e-4da7-a383-d0dad36ca252%40sessionmgr198&hid=109&bdata=JnNpdGU9ZWRzLWxpdmUmc2NvcGU9c2l0ZQ%3d%3d#db=bwh&AN=bizwire.c57209074> and the second one is, <http://eds.b.ebscohost.com/eds/detail/detail?vid=6&sid=3f8ca387-005e-4da7-a383-d0dad36ca252%40sessionmgr198&hid=109&bdata=JnNpdGU9ZWRzLWxpdmUmc2NvcGU9c2l0ZQ%3d%3d#db=edsgov&AN=edsgcl.382608711>
The keywords I used were: inside, Iphone 6-Plus
 **6. Comparison**Both of the internet article and the journal article I found are very informative, updated and accurate. The internet article was easier to access due to the ease of Google’s search engine’s use. To find the journal article, I had to go through a few steps first. Both articles had timeliness and both were posted less than two weeks ago. In addition, both articles’ authors were very knowledgeable about the product and they both equally provided me with a lot of information about it.

**7. Citations** I am using the MLA format to cite my sources.

Woods, Molly. "Inside the Iphone6-Plus." Inside the Iphone6-Plus. Molly Woods, 14 Sept. 2014. Web. 21 Sept. 2014.

Osteria, Logan "The secrets of Iphone 6-Plus." The secrets of Iphone 6-Plus. Logan Osteria, 09 Sept. 2014. Web. 21 Sept. 2014.

Marlot, Jacob. "The new iphone” The new iphone. Jacob Marlot, 11Sept. 2014. Web. 21 Sept. 2014.

Coons, Rita. "Iphone 6-Plus?." Iphone 6-Plus. Rita Coons 15 Sept. 2014. Web. 21 Sept. 2014.

Barlett, Jason. "The Iphone6-Plus." The Iphone6-Plus. Jason Barlett, 12 Sept. 2014. Web. 21 Sept. 2014.