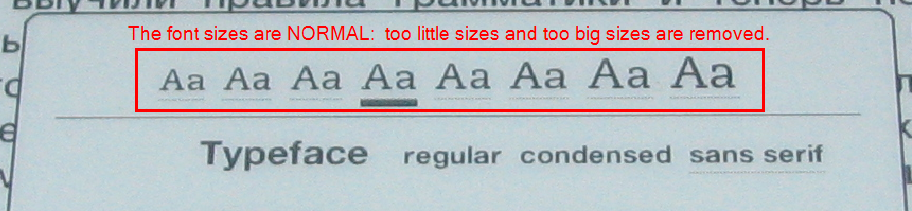
Kindle DX: changing font size set on Aa button

# How it looks like

It was a puzzle. A real puzzle. But it is solved. This is the result:



The font sizes which are set now are: 21, 23, 24, 25, 26, 27, 29, 31

# Disclaimer

**Use this fix at your own risk. I do not take any responsibility if something goes wrong. I’ve done it for Kindle DX Graphite with firmware 3.2.1 – on this device everything works fine. I have no idea how it will work on other devices (and if it will work at all).**

# Prerequisites

You need to have the following things installed:

* Jailbreak
* launchpad
* usbNetwork

All these things can be downloaded from here: <http://www.mobileread.com/forums/showthread.php?t=88004>

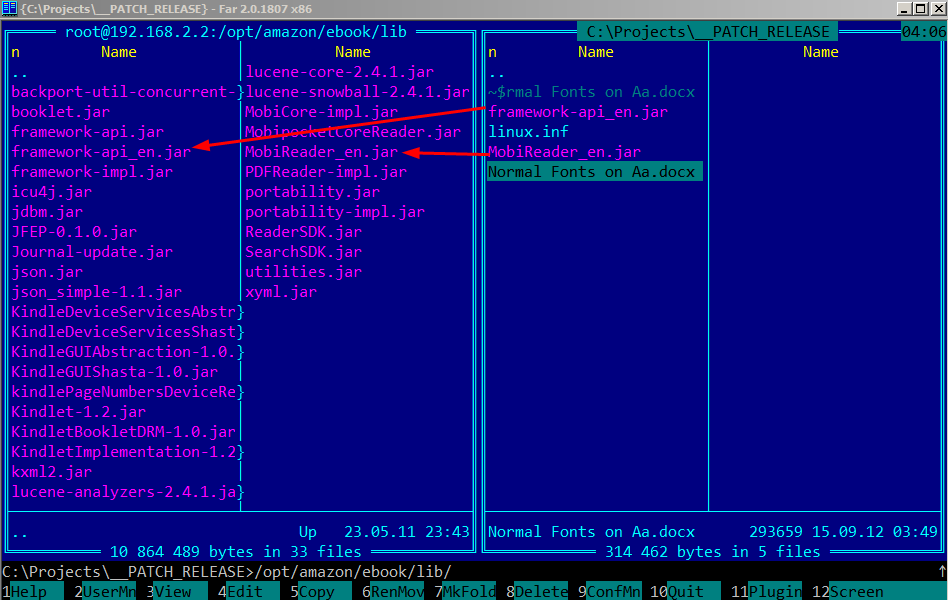
Important issues:

1. command ~usbNetwork often doesn’t work. A good workaround will be to add a line in \launchpad\launchpad.ini:  
   Shift N = !/test/bin/usbnetwork  
   so by pressing Shift Shift N you will switch on to usbNetwork mode.
2. When you switch to usbNetwork mode for the first time, Windows will detect a new network card - Linux USB Ethernet/RNDIS Gadget, but on Win7 there are no default driver for it. Install it manually – select linux.inf. Then manually set up IP address 192.168.2.1 for this network card, subnet mask = 255.255.255.0
3. I suggest to install WinSCP and putty - <http://winscp.net/eng/download.php> There is a nice instruction (in Russian) how to set up public/private keys, etc. - <http://www.the-ebook.org/forum/viewtopic.php?p=551668#551668>

Personally I am using Far Manager, and there is a WinSCP plugin for it.

# Setup of the patch

1. Run usbNetwork (Shift Shift N in Launchpad).
2. Run putty, connect to 192.168.2.2, log on under root and run the command mntroot rw (if you don’t do it – you won’t be able to copy files on the next step).
3. Using WinSCP and/or Far Manager with WinSCP plugin copy files framework-api\_en.jar and MobiReader\_en.jar to folder /opt/amazon/ebook/lib/



1. Restart the kindle (Shift Shift R).

After you restart it, you will see normal font sizes.

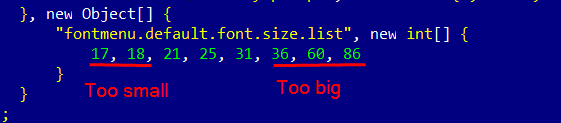
# How did I make these jar files?

This is information for developers and for those who may want to create their own font size packages.

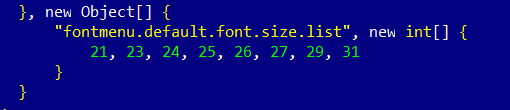
In this thread you may read the process: <http://www.mobileread.com/forums/showthread.php?t=189717>

The steps are next:

1. Download JDK version 1.4 from here <http://www.oracle.com/technetwork/java/javasebusiness/downloads/java-archive-downloads-javase14-419411.html>
2. By default it is installed into C:\j2sdk1.4.2\_19. Add directory C:\j2sdk1.4.2\_19\bin\ to PATH variable.
3. Download JAD (Java Decompiler - <http://www.varaneckas.com/jad/> ) and placed jad.exe into C:\j2sdk1.4.2\_19\bin\
4. Make full copy of directory \opt on kindle to your PC to folder c:\projects\opt   
   AND DO NOT TOUCH THIS FOLDER. This will be a backup and a reference for compilation.
5. Copy file \opt\amazon\ebook\lib\framework-api.jar from kindle and extract it to separate directory, for example to C:\Projects\framework-api.
6. Find the file C:\Projects\framework-api\com\amazon\ebook\framework\resources\UIResources.class and decompile it with command jad.exe UIResources.class. Rename UIResources.jad to UIResources\_en.java (and rename the class inside the file correspondingly), fix these lines



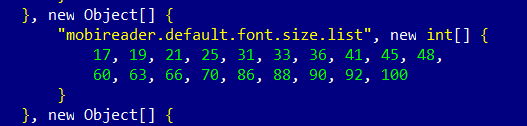
I made it like this:



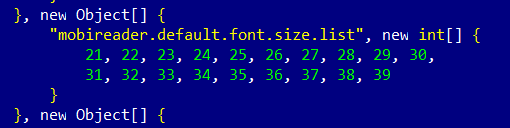
And compile back running command

javac -target 1.4 com\amazon\ebook\framework\resources\UIResources\_en.java

1. You got UIResources\_en.class. Create a new empty folder - C:\Projects\framework-api\_en, inside this folder – subfolders com\amazon\ebook\framework\resources\, put file UIResources\_en.class to this path – so that entire folders com\amazon\ebook\framework\resources\ contains just this one file.
2. Zip folder com (in C:\Projects\framework-api\_en\) and rename the zip file to framework-api\_en.jar. Copy this file to kindle to the directory opt\amazon\ebook\lib\
3. The same decompiling steps should be done with \opt\amazon\ebook\booklet\MobiReader.jar. Get it from kindle on local disk, extract to the folder C:\Projects\MobiReader. Decompile C:\Projects\MobiReader\com\amazon\ebook\booklet\reader\resources\ReaderResources.class, rename source file to ReaderResources\_en.java, fix class name and constructor, fix lines



and replace with these lines



The main point here is to make so that previous 8 values are among these 19 values.

Compile ReaderResources\_en.java using the following command:

javac -target 1.4 -classpath C:\Projects\opt\amazon\ebook\lib\framework-api.jar com\amazon\ebook\booklet\reader\resources\ReaderResources\_en.java

1. Copy C:\Projects\MobiReader\com\amazon\ebook\booklet\reader\resources\ReaderResources\_en.class

To a separate folder – for example to C:\Projects\MobiReader\_en\com\amazon\ebook\booklet\reader\resources\   
(previously creating this folder)

And zip contents starting from com, rename to MobiReader\_en.jar. Copy this jar to /opt/amazon/ebook/lib/

1. Restart kindle

# Thanks

Very big thanks to Mr. Ixtab from mobileread.com forum. If not his help – I would be unable to do all this stuff.

# About me

I am a software architect and developer on Microsoft .NET platform. I am not a java developer, so these all steps are my first experience with java. It was a nice puzzle for me – I like it very much, frankly speaking.

I do not have any commercial interest in all this work, and have nothing against Amazon and their copyrights. I did this exclusively for my convenience.

**To Amazon Developers:** guys, before creating a hardcode in the future products, think carefully. Thank you very much in advance.

Regards,

Ihor.