Jenkins got java.awt.headless problem

Problem

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I installed Jenkins in Ubuntu linux and run Jenkins in the tomcat6.

I open any Jenkins page which is showing a trend chart. I get the following error on the page:

Graphics N/A Unable to access X. You need to run the web container in the headless mode. Add -Djava.awt.headless=true to VM.

I check the tomcat6 starting script, the JVM property java.awt.headless is set to true already.
I check through the Jenkins' **Manage Jenkins->System Information** page. It also shows the java.awt.headless is set to true.

Looking through the Tomcat logs, the following error can be found:

```
java.lang.Error: Probable fatal error:No fonts found.
```

Solution (for Open JDK)

We had the same problem too using Jenkins in Tomcat6 on Ubuntu 9.10 server.

Obviously graphics rendering needs access to font metrics. So check java /etc/java-6-openjdk/fontconfig.properties and install missing fonts. OpenJDK refers to DejaVu-Fonts. So type:

On Ubuntu (or likely any Debian based Operating System)

```
sudo apt-get install ttf-dejavu
```

On CentOS 6 (or likely any RHEL based Operating System)

```
sudo yum install dejavu-sans-fonts
```

On OpenSUSE:

```
zypper install dejavu-fonts
```

In addition if you are using the OpenJDK Headless package (at least on CentOS 7) you will need to install fontconfig

```
sudo yum install fontconfig
```

On Alpine

```
sudo apk add ttf-dejavu
```

Restart Tomcat and enjoy graphics.

If this doesn't work, you may also need some of type rendering libraries that are usually part of an X server – in a truly headless system, xvfb will do.

On Ubuntu (or likely any Debian based Operating System)

```
sudo apt-get install xvfb
```

On CentOS 6 (or likely any RHEL based Operating System)

```
sudo yum install xorg-x11-server-Xvfb
```

Solution (for Sun JDK)

I also had the same problem using Jenkins in Tomcat 6 on Ubuntu 9.10 Server, but this time with Sun's JDK6.

I initially only installed the package 'sun-java6-jdk'. After seeing the above fonts error, I tried installing the 'sun-java6-fonts' package, but that didn't seem to solve my problem. I gave up trying to find the exact package I needed to get things working and just decided to remove what I had and reinstall the "whole shebang":

```
sudo apt-get remove sun-java6*
sudo apt-get install sun-java6*
```

Maybe a little brute'ish, but it worked. Jenkins now makes all of its pretty charts.