

VO-India Android Applications

Presented By
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VO-India





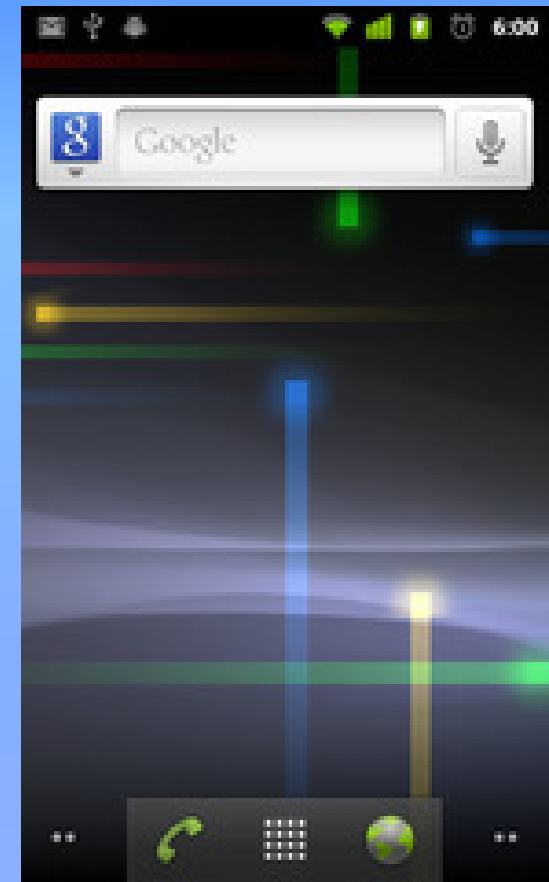
Highlights

- Introduction to Android
- Features of Android 2.2
- Introduction to Name Resolver
- Features of Name Resolver
- Introduction to Cosmology Calculator
- Features of Cosmology Calculator
- Upcoming Plans



Introduction to Android

- A software and O.S. for mobile devices.
- Developed by Google in 2005.
- In November 2005 funded by Open Handset Alliance (OHA).
- Android is under Apache Software License(ASL) version 2.





Features of Android

- Android is based on Linux kernel
- Allows to write managed code in java language
- Supports wireless communication
- It is end-to-end software platform for any number of hardware
- Large number of android users



Name Resolver

- User inputs celestial object name
- App returns RA/DEC plus some basic information associated with object
- Also returns redshift, proper motion & parallax (if available)
- It uses either **SIMBAD** or **NED** service
- Access default internet connection

Screen Layouts



3G 12:11 PM

Name Resolver

Service Help About

Name Resolver Service

M67

SIMBAD NED

General Parameters

Object Name : M 67

Object Type : OpC

J2000 [H:M:S D:M:S] : 08:51:18.0 +11:48:00

RA(deg) : 132.825

Dec (deg) : 11.8

Proper Motion (mas/yr)

-6.51 -4.54 [0.30, 0.28] C

3G 12:13 PM

Name Resolver

Service Help About

Name Resolver Service

3c273

SIMBAD NED

General Parameters

Object Name : 3C 273

Object Type : QSO

J2000 [H:M:S D:M:S] : 12 29 6.71 2 3 8.61

RA(deg) : 187.27792

Dec (deg) : 2.05239

Redial Velocity / Redshift / CZ

0.158339 / 47469



Cosmology Calculator

- Stand alone application for android
- User inputs values for Hubble constant, Omega(matter), Omega(vacuum) and redshift.
- Output: Age of universe, co-moving radial distance, angular size distance, scale (kpc/arcsec) and luminosity distance etc.
- Supports flat, open & general type of universe
- Adapted from **Ned Wright's Cosmology Calculator**

Screen Layouts



Cosmology Calculator

Calculator Help About

Type of Universe

General Open Flat

Hubble Constant: 71.0
Omega Matter: 0.27

Redshift: 1.0
Omega Vacuum: 0.73

Submit Clear

Age of Universe(Gyr) : 13.671
Age at Redshift(Gyr) : 5.94
Light Travel Time(Gyr) : 7.731
Comoving Radial Distance(Mpc) : 3317.385
Comoving Radial Distance(Gly) : 10.82
Comoving Volume within Redshift(Gpc3): 152.924
Angular size Distance(Mpc) : 1658.691
Angular size Distance(Gly) : 5.41

Cosmology Calculator

Calculator Help About

Cosmology Calculator v1.0-beta

Release Notes

Release date - 09 September 2011

Release Identification:

This release contains executables for Cosmology Calculator v1.0-beta.

Product Support Information/Feedback address:

For feedback contact voindia@vo.iucaa.ernet.in.

Credits:

Adapted from the Cosmology Calculator by Ned Wright.
URL: <http://www.astro.ucla.edu/~wright/intro.html>



VO-India on Android Market



cosmology calculator - Android Market - Mozilla Firefox

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Android Market


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PRICE: No filter, Free, Paid

SAFE SEARCH: Off, Low, Moderate, Strict

SORT BY: Relevance, Popularity


Apps About 2 results



Cosmology Calculator
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This calculator allows the user to input user-selected values of the Hubble constant, Omega(matter), Omega(vacuum) and the redshift (z), and returns the current age of...

INSTALL



Feng Shui Calc
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Increase your Health and Wealth with Feng Shui Calc! The #1 Feng Shui App in the iPhone App Store comes to Android! Having a stroke of bad luck?! See if you could cha...

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RS.97.31 BUY

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Android Market

Android Market > Education > Cosmology Calculator


Cosmology Calculator

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INSTALL

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 **Name Resolver**
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No ratings
Free

Visit Developer's Website >

Description

This calculator allows the user to input user-select Omega(matter), Omega(vacuum) and the redshift of the Universe, the co-moving radial distance (and volume specified redshift, as well as the scale (kpc/arcsec) user the choice between open (Omega(vacuum)=0 (arbitrary combination of Omega(matter) and Omega(vacuum)=1) and Omega(matter)=1 and Omega(vacuum)=0. This application will be installed on user's android calculator has been adapted from Ned Wright's Cosmology Calculator.

App Screenshots



Name Resolver - Android Market - Mozilla Firefox

File Edit View History Bookmarks Tools Help


Name Resolver - Android Market x Cosmology Calculator - Android M... x

Android Market

Android Market > Education > Name Resolver


Name Resolver

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 **Cosmology Calculator**
VO-INDIA
No ratings
Free

Visit Developer's Website >

Description

This Name Resolver allows the user to input the name of celestial object and returns basic information about the object such as RA/DEC values associated with that object and some other information such as redshift, proper motion, parallax etc (if applicable) using either the SIMBAD or NED service.

App Screenshots





Future Plans

- Integration of Cosmology Calculator with Name Resolver
- Adding miscellaneous functionality
- Visibility Calculator for SALT??



Thank You

Virtual Observatory - India

