

# Project Proposal “iSTIX”



**Team**

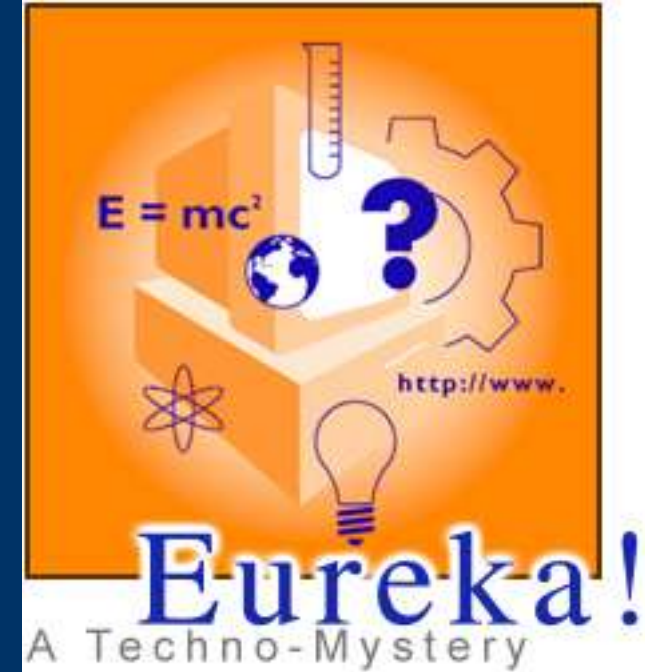
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Donny**

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# iSTIX

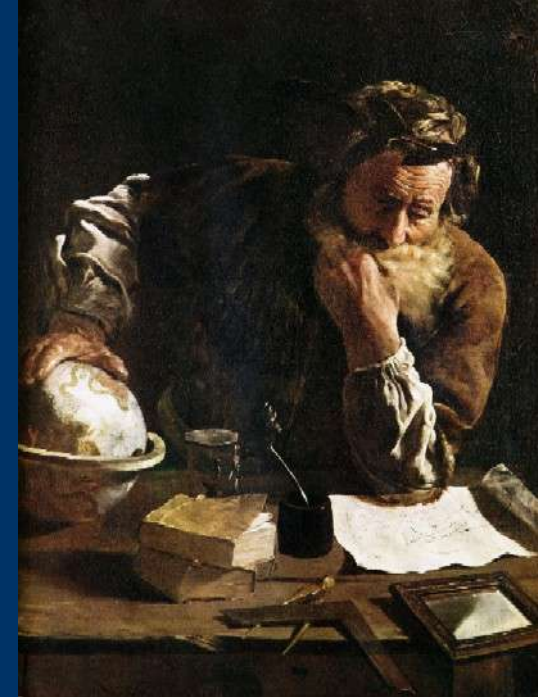
## Objectives

1. To give the concept of gumstix a wider appeal
2. Implement a system which aids in listening to music wirelessly with gumstix as the base.



# iSTIX

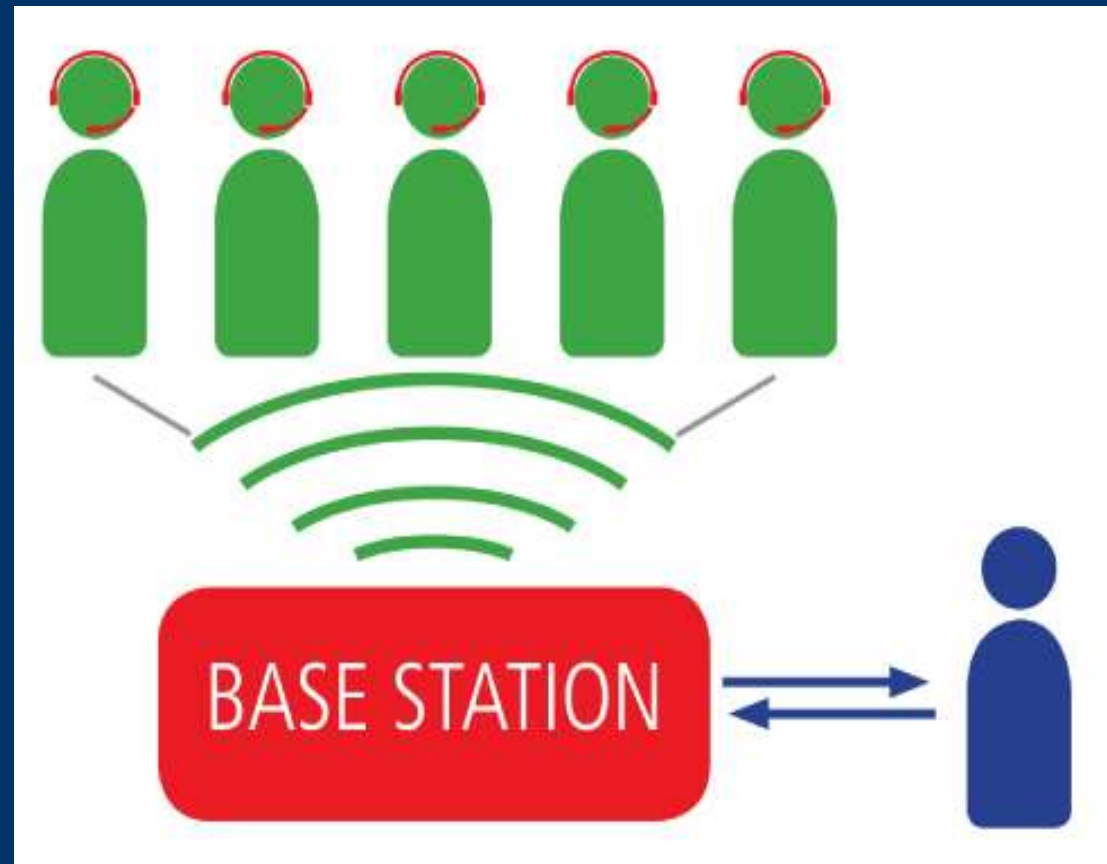
## Concept



1. Getting the base gumstix connected to internet wirelessly
2. Buffering and playing music.
3. Enabling other nodes to connect to the base.

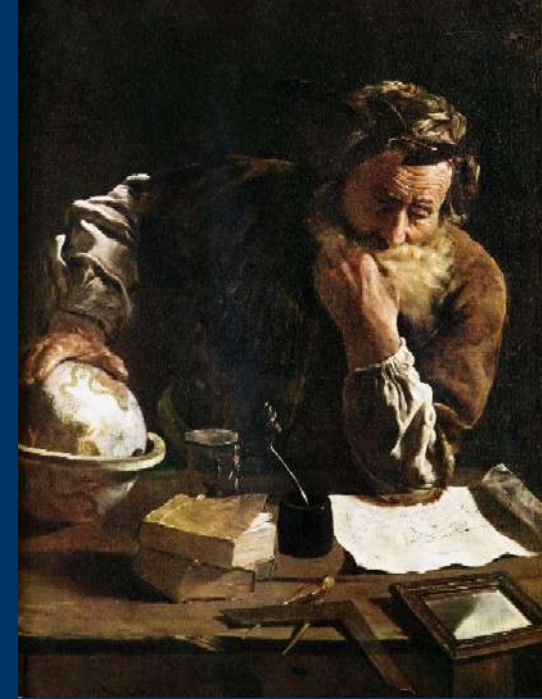
# iSTIX

## Concept Visualisation



# iSTIX

## Motivation



1. iSTIX can be used at any place with wireless access.
2. Vivid collection of music, compact and Handy.



# iSTIX

## Competitive Analysis

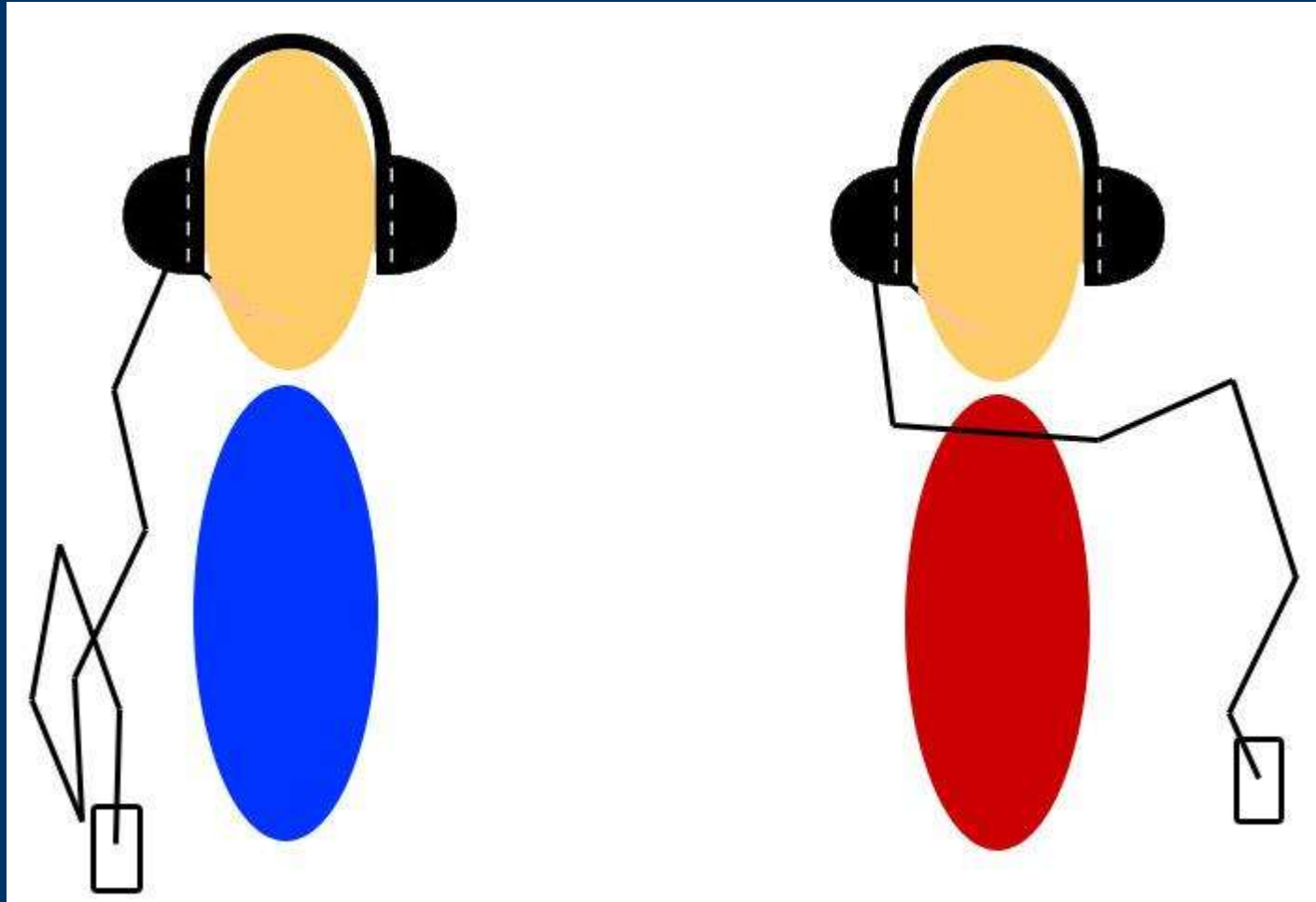
1. Walkman, Discman

2. iPods



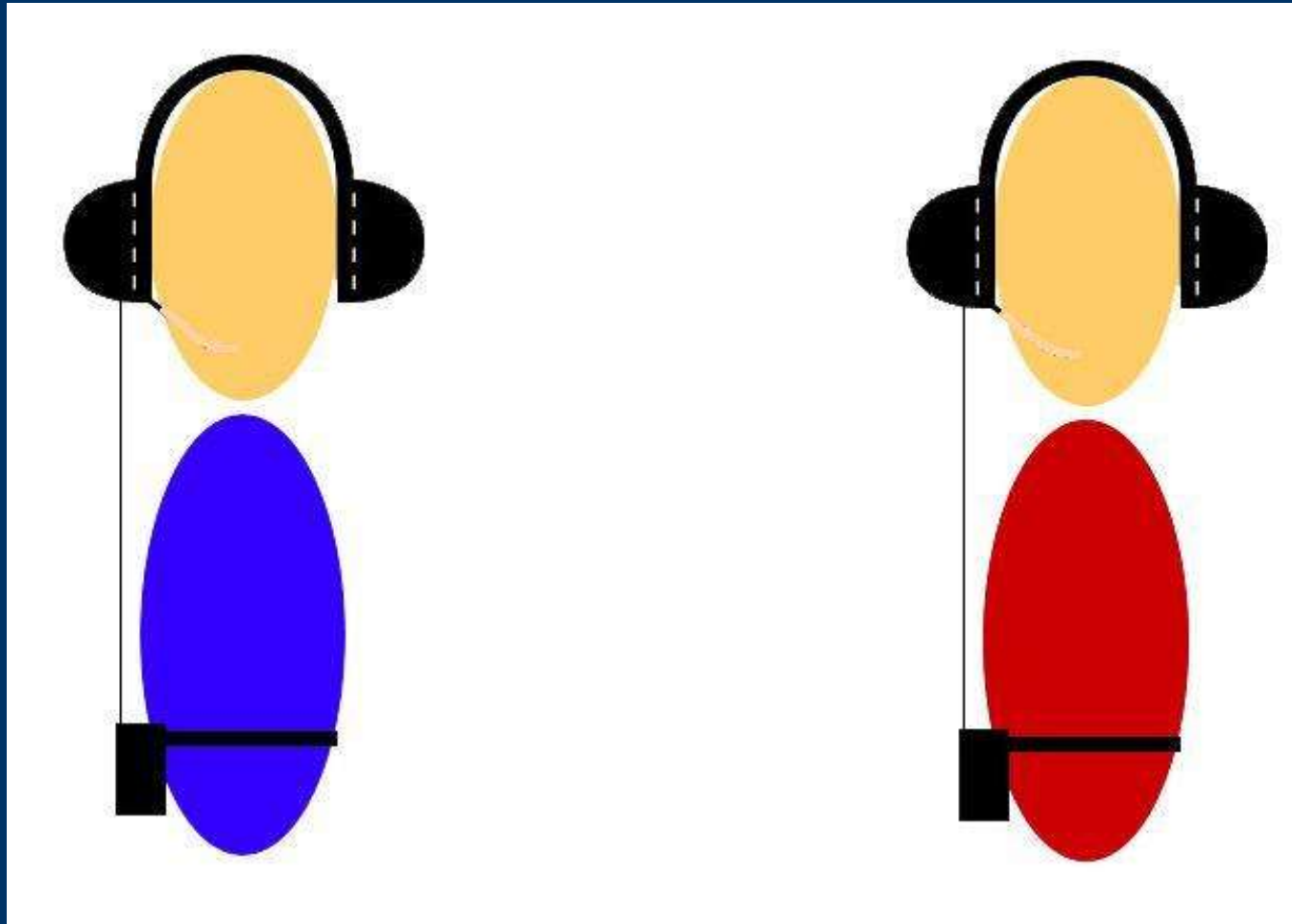
Before

# iSTIX



After

# iSTIX





# iSTIX


## Functional Requirement

1. Establish wireless connectivity for base
2. Connect to the webpage and get play music.
3. Establish connection between nodes and base.



# iSTIX

## Hardware

1. Connex
  2. Wifistix CF
  3. GPSstix or Audiostix 2
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# iSTIX

↔ **connex 400xm**



60 pin Hirose connector

92 pin bus header



view gallery

↔ **wifistix-CF-FCC**



802.11g module

power jack

Type II compact Flash adapter

antenna (included)

92 pin connex connector on reverse side

📺 **audiostix 2**



female 60 pin connector

audio in/out with LCD capability on the board

usb client

power jack

stereo in/out

# iSTIX

## Software

Coding to link to the website then play the music.



# iSTIX

## Schedule

Jan '08 – Establish wireless connectivity


Feb '08 – Get music online and play it.

March & April '08 – Node connectivity with base station



# iSTIX

## References

1. [http://docwiki.gumstix.org/Frequently\\_asked\\_questions/Wifi](http://docwiki.gumstix.org/Frequently_asked_questions/Wifi)
  2. <http://chess.eecs.berkeley.edu/escher/developers/gumstix.html>
  3. [www.gumstix.com](http://www.gumstix.com)
  4. <http://www.nabble.com/mpg123-0.65-to10634480.html#a14249529>
  5. <http://www.linux-tutorial.info/modules.php?name=ManPage&sec=1&manpage=mpg123>
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# iSTIX

## Questions ?



*iSTIX*

**Thank you !!**

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