

Develop a natural user-interface for the users of a Car

- By Using:

- Gesture Recognition
- Image Processing
- Voice Recognition

FEATURE

- Gesture Recognition _____ Kinect or

- Image Processing ———— Camera

- Voice Recognition ---- Microphone

HARDWARE

TOOLkit A Multi Purpose Toolkit

- Open Source Platform
- Based On Delphi
- Developed for designing Interactive Installations
- Provides A Graphical Programming Interface
- Plugins Developed in .NET or C#
- Developed by Meso ,Frankfurt, Germany

"VVV Advantages

Focus of the program

- Real-time video synthesis
- Programming large media environments with physical interfaces
- Real-time motion graphics
- Audio and Video

VVV Advantages

- Extremely efficient with 3D Systems
- Possiblity to write our own Shaders
- Boygrouping
 - Where one computer controls a number of slave computers to operate in parallel, with all programming and editing is done on the master computer.
- Spreads
 - One dimension array of values

"VVV Advantages

- Ability to integrate Bullet Physics Engine
- Ability To Integrate OpenCV
- Ability to Integrate OpenNI
- Built in Audio processing Engine
- Ability to integrate Microsoft Speech API

VVV Advantages

■ Easy and Quick Interfacing with:

Kinect and other PrimeSensor based devices

Video Camera and WebCam

Other Hardware Interface Devices

"VVV Dis-Advantages

- 3d Rendering Based on DirectX API so only suitable for Windows
- Not as flexible as the object oriented languages
- Intended to be a Rapid Prototyping Software
- VVVV calculates the entire patch each frame so CPU intensive