

The background of the image is a collage of various items: a magnifying glass with an Apple logo on its handle, a green pen holder with several pens, a globe, and some papers. The text is overlaid on this background.

Worldwide

Developers

Conference



QuickTime Futures

Kevin Calhoun

Peter Hoddie

QuickTime Interactive

- **It's QuickTime**
- **A platform for the delivery of media**
 - Content
 - Structure
 - Behavior
- **Integrates multimedia technologies**
 - Video, Audio, Music, VR, 3D, Speech, etc.
- **It's Open**



It's QuickTime

- **File format**
 - Movies, tracks, and samples
- **Content formats**
 - Video, images, sounds, etc.
- **Basic APIs**
 - Component Mgr, Movie Toolbox
- **Runtime model**
 - Movie controller
- **Time, effects, transitions, music, tweeners, sprites, etc.**





ClickWorks and QTi

Reuven Sherwin

Pitango Software



Demo



QT*i*: A Closer Look

Kevin Calboun

**QT 4.0 Engineering
Manager**

QTi Architecture

- **Container tracks**
- **QTi Objects**
- **QTi Messages**
- **Compilers and Interpreters**
- **Media Content**
 - **Import**
 - **Access**



QTi Architecture





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QTi Objects

- **Have properties**
- **Handle messages**
 - Get / set properties
 - Events
 - Spatial
 - Timer
 - User defined
- **Manage content**





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QTi Message Handlers

- **Handle messages as subroutines**
 - Analogous to XCMDs
- **Have no persistent state**





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QTi Languages

- **QTi is open to multiple languages**
 - Compilers
 - Interpreters
- **Built-in support**
 - C, HyperTalk
- **Your language here**





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Data Import

- Mapping between data types and object classes
- Drag and drop
- Clipboard
- Format conversion
- Your content format here





Demo

Data Access

- **QTi is open to multiple forms of reference**
 - Alias
 - In memory
 - URL
- **Data handlers**
 - Database queries, network protocols, etc.
- **Your access method here**





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Authoring Tools

- **Content models**
 - Actors and scenes
 - Cards and stacks
 - Controls and forms
- **Usage models**
 - Object hierarchies
 - Media sharing
 - Message passing
 - Object behaviors
 - Configuring, Wiring, Scripting



Authoring Tools

- **QTiMake**
- **AMT**
- **HyperCard**
- **ClickWorks**
- **Your authoring tools here**





Demo



Q&A

The background features a dark, textured surface with a glowing blue and purple orb in the center. The orb has a white Apple logo on its top. To the right, there are several green pens in a holder. The overall aesthetic is futuristic and tech-oriented.

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