

Exhibit 1

MediaView

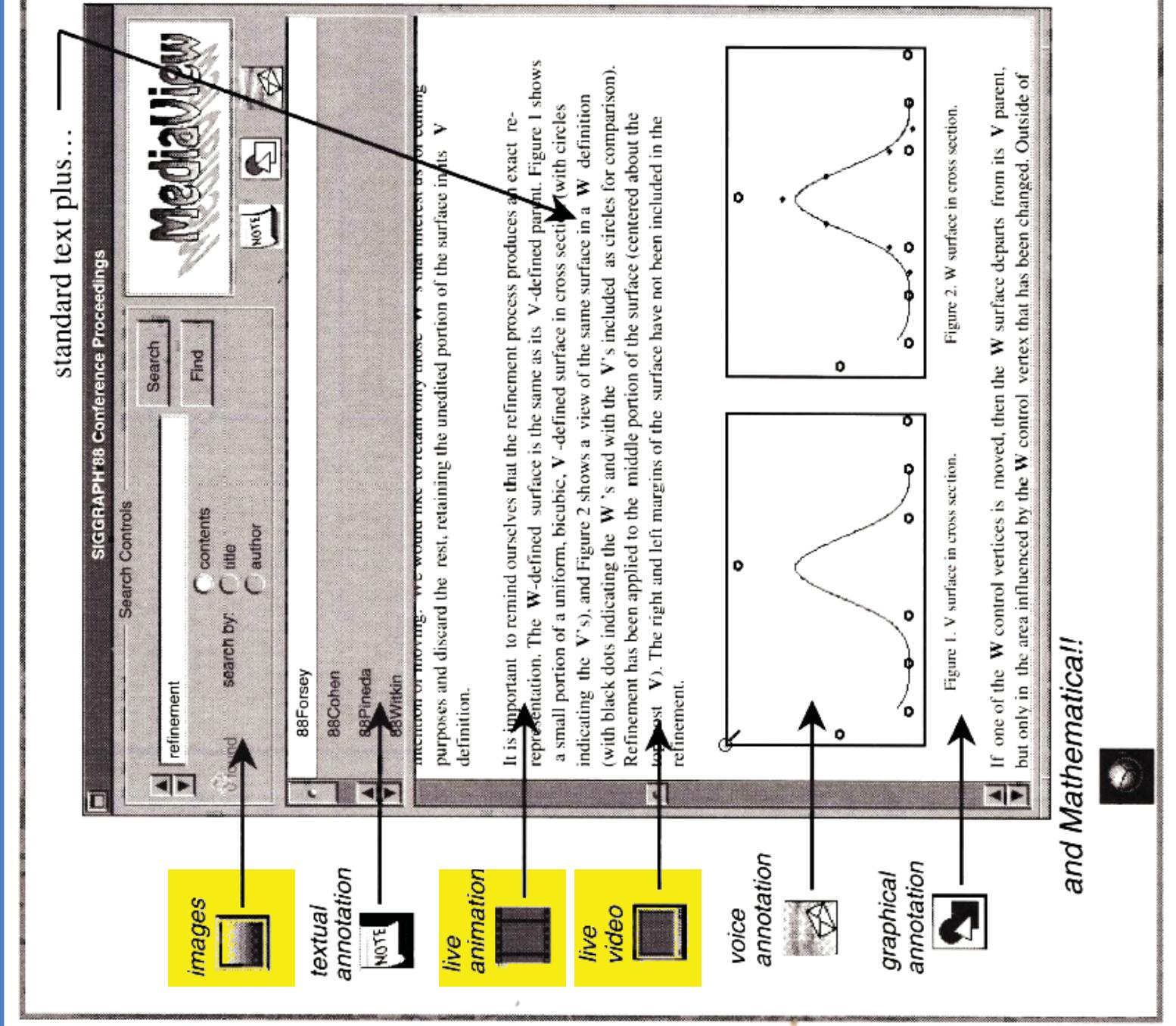
I invented MediaView at Los Alamos in 1989

I was nominated for Smithsonian award for MediaView





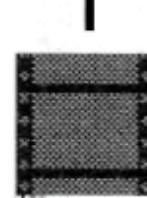
standard text plus...



images



live animation



live video

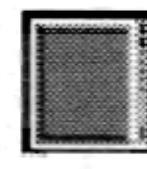


Figure 1 Components of a Media View document

Transcript of the 1990 SIGGRAPH conference in Dallas

Publication Opportunities Problems

Dick Phillips
Folks, if you would take a seat we'll begin the last session of the afternoon and the last session of SIGGRAPH. You are all going to be richly rewarded for having stuck it out for the last afternoon of the conference.

Dick Phillips and I'm the afternoon, which is Status, Opportunities' presentations at work of the panelists. Five blind men app different parts of the publication as an ex the panel walking at it and giving you on beast is. It is many-f agree when we are d to describe to you w aspects of digital pa

I'm going to speak couple of computer some idea of what d don't go away. Our good friends and co speaker is going to b MIT Media Lab and to be followed by M Bellcore, and he will

Andy von Dam from Rick Beach from Xerox PARC will be last, as I said let all of the other p more about themself begin and I hope yo of the afternoon. M

Michael Hawley It's a privilege to be clean-up panel. Also when we were gettin and some friends set on the machine. I t right phrase to exp

with "digital library." At the time, I couldn't find that term in use anywhere, a few people were talking about "computer-aided libraries" and a little bit of "electronic library", but I looked and looked, and no one used the term "digital

library." So I did what any good scientist/entrepreneur would do, I call up the lawyers at NeXT and asked them to pursue trademark status. You have to keep those people on their toes. And although we didn't trademark "digital library", I think it is indicative of the growth that this field is going to enjoy, that now this is an

idea that's stirring around. People think a little bit more about the idea of a digital library. As the introductory speaker here, I'm going to try and give a broad brush opinion about the field; I want to be succinct and I'm going to attempt not to lay the icing on too thickly. But I think I'll

Rick Beach just talked about the SIGGRAPH Interactive Proceedings, and that really is a precursor to this application which is called MediaView.

I'll just step through here very quickly and show you some of these things in action. It well and good to show some slides, but in this particular case, you want to see the action.

At the time, I couldn't find that term in use anywhere, a few people were talking about "computer-aided libraries" and a little bit of "electronic library", but I looked and looked, and no one used the term "digital library." So I did what any good scientist/entrepreneur would do, I call up the lawyers at NeXT and asked them to pursue trademark status. You have to keep those people on their toes. And although we didn't trademark "digital library", I think it is indicative of the growth that this field is going to enjoy, that now this is an idea that's stirring around. People think a little bit more about the idea of a digital library. As the introductory speaker here, I'm going to try and give a broad brush opinion about the field; I want to be succinct and I'm going to attempt not to lay the icing on too thickly. But I think I'll

**Los Alamos
National
Laboratory**

LANL
Software and
Visualization
Sampler

Contains
...Images
...Movies
...Software

Editor
R. L. Phillips

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University of
California

DISC NEG., INC. (A1)

2-182274-101

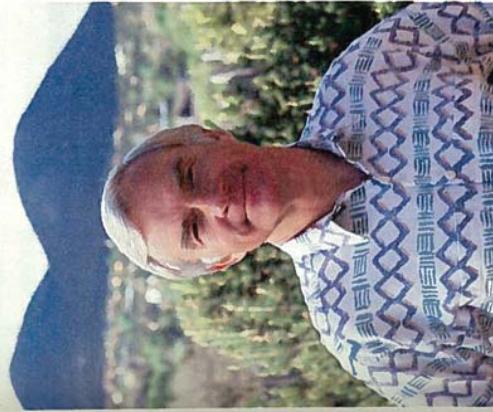
Media Maker

Rather than let the television and computer industry giants define multimedia standards for the next decade, Dick Phillips decided to do something better. Then he made it free to the public.

A researcher at Los Alamos National Laboratories (LANL) since 1986, Phillips is best known in the NeXT community for his

of Michigan with Lisa computers. One week after the NeXTcube was unveiled, Phillips had one in his office.

Always a programmer at heart, he started to play around with the new machine. The next year he showed Media View at Siggraph '89 as part of a special technology demonstration sponsored by NeXT. For NeXT, Media View showed



Dick Phillips, multimedia pioneer

View is that it's free for the
You can pick up a copy of it
Purdue University Internet
server.

professor of aerospace engineering and computer engineering. It was while he was working on a Ph.D. that Phillips became involved in computing, using an IBM 704 to help write his thesis on the dynamics of electric arcs. It seemed only reasonable to him to demonstrate his results with computer animation. The problem was that the year was 1964 and capabilities to create computer animation were not generally available. He circumvented that by writing data from his simulations on magnetic tape and porting it – by hand – to a hybrid analog/digital computer with limited plotting capabilities.

Phillips is now working on

a slew of MediaView upgrades, including a set of more dynamic multimedia elements. He's also building a conversion program for MediaView, so people outside the NeXT community can view MediaView files.

Phillips believes that since

MediaView is becoming a sign of the future. He points to today's UNIX standards, in software that was freely available. He says, creating animation and re-

al intention of the future. When he says, "It was hard words. He's created computer-graphics undergraduate some time in that's done, he

MediaView is that the intention of the future. When he says, "It was hard words. He's created computer-graphics undergraduate some time in that's done, he

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what was possible when high-performance graphics were combined with object-oriented programming.

What Phillips didn't tell the audience about was the nonstandard, special hardware tricks and gimmicks that had been needed to display color images on the NeXT's screen.

That would come later. "This was before the intro-

duction of the ND [NeXTdimension] board," he recalls.

Indeed, in some ways the NeXTdimension was designed to run MediaView rather than the other way around. That's because Phillips sat on NeXT's Color Advisory Board Council, where the specifications for the NeXTdimension were formulated. "Our idea was to create a Silicon Graphics workstation on a board," he recalls.

Phillips's work with NeXT fits well with his role at Los Alamos, which he describes as "evaluating new technologies in the computer industry." Before coming to LANL, Phillips spent over two decades at the University of Michigan as a

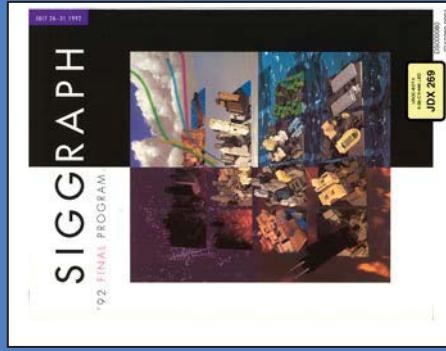
MISSION - CRITICAL DEVICE
If this is your prob
OTI is your solut



OBJECTIVE TECHNOLOGIES INC.
 d
 Pro

in
1991
three articles
published
about MediaView

1992
MediaView CD publicly
available
**MediaView featured in
magazine as available for
free download**



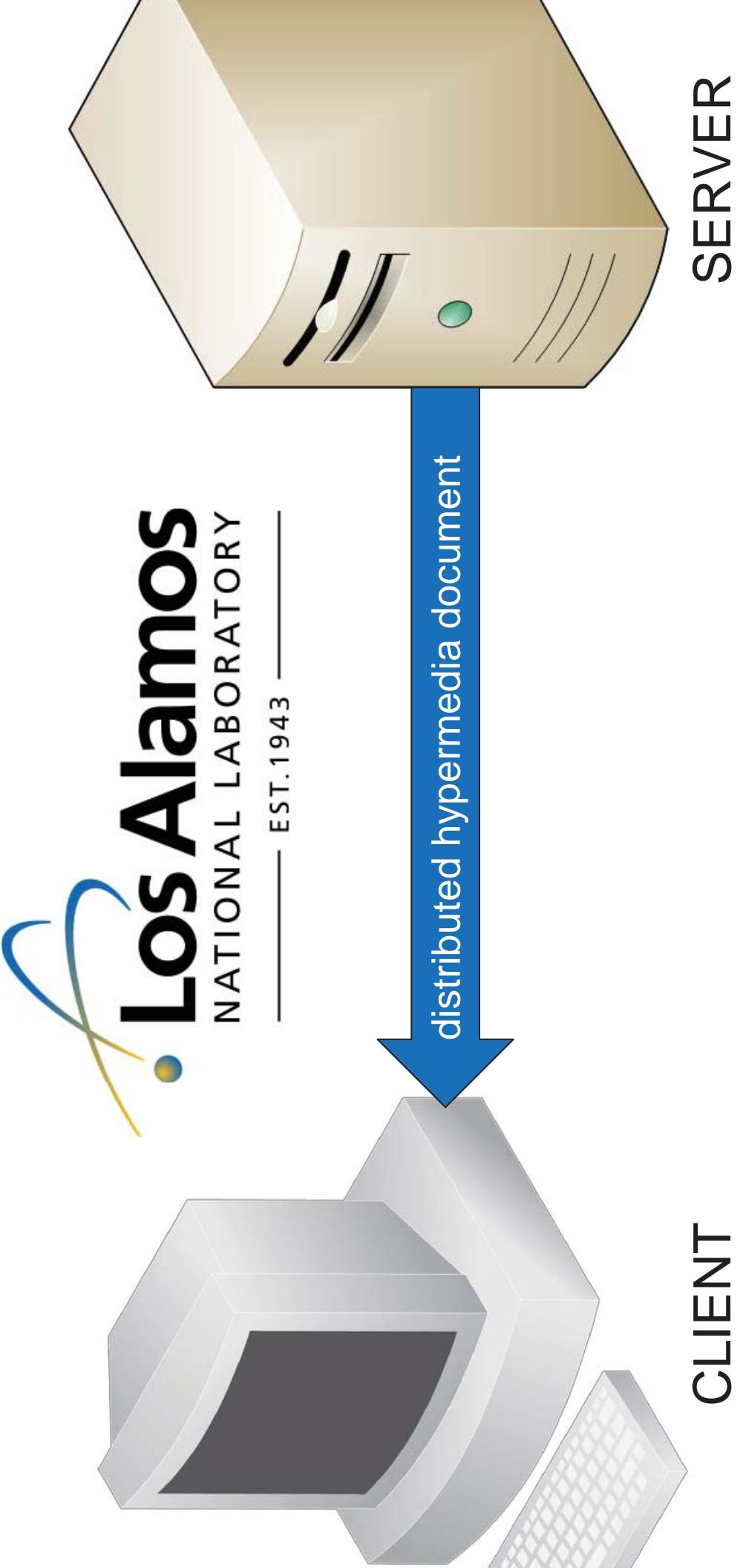
Demonstrates MediaView 2, which pre-dates Eolas Patents

MediaView was NOT considered
by the Patent Office

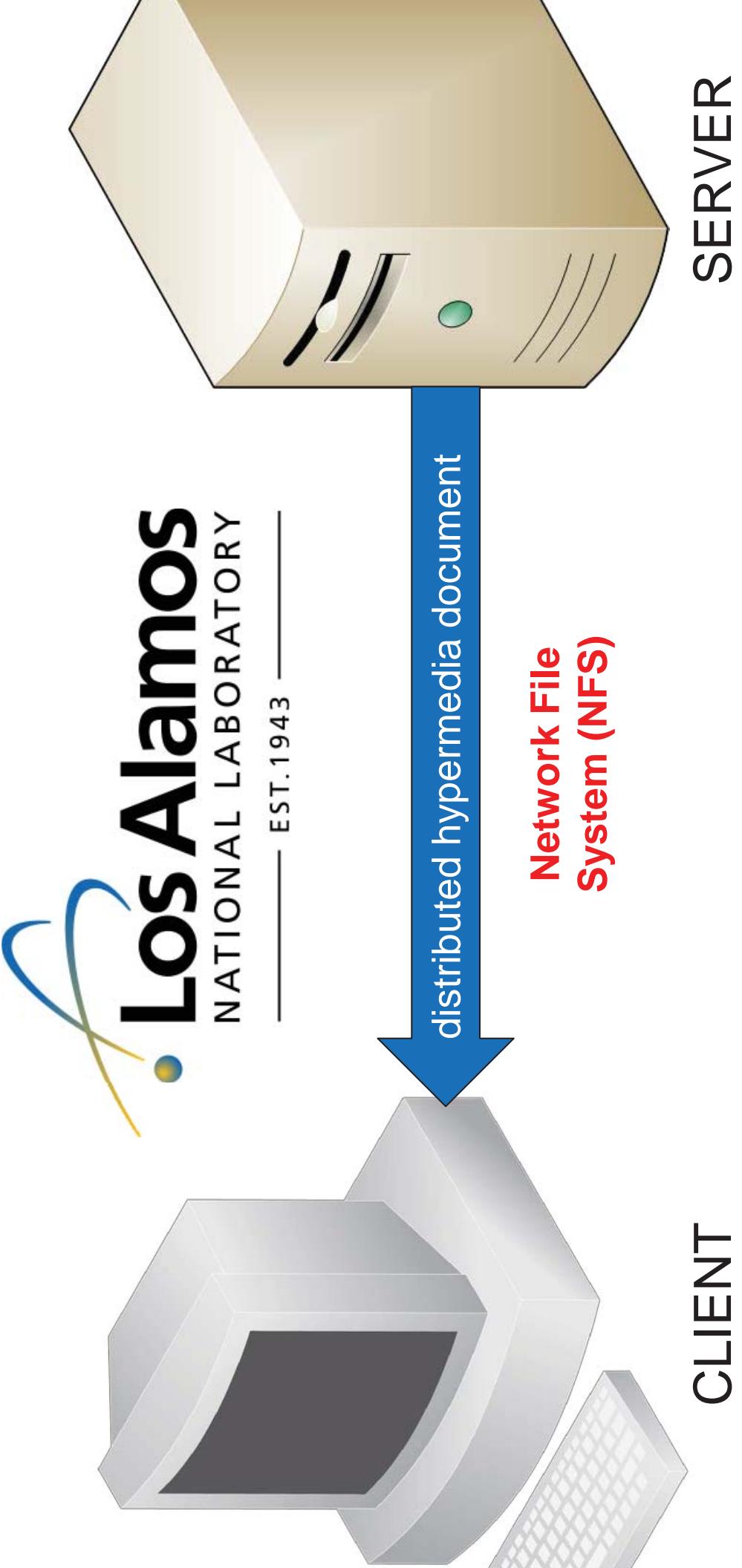
method for running an application program in a distributed hypermedia network environment, wherein the network environment comprises at least one client workstation coupled to the network environment, comprising:

- 1 **receiving** ...
at the client workstation from the **network server** in the network environment, at least one file containing information to enable a browser application to display a portion of a distributed hypermedia document within a browser-controlled window;
- 2 **executing** ...
the browser application on the client workstation through the browser application;
- 3 **responding** ...
to text formats to initiate processing specified text formats;
- 4 **displaying** ...
at least a portion of the document within the browser-controlled window;
- 5 **identifying** ...
an embed text format which corresponds to a portion in the document, where the embed text format specifies the location of at least a portion of an object external to the file, where the object has type information associated with it;
- 6 **utilizing** ...
the type information to identify and locate an executable application external to the file; and
automatically invoking the executable application, in response to the identifying of the embed text format, to run on the client workstation in order to display the object and enable an end-user to directly interact with the object while the object is being displayed within a first area created at the first location within the portion of the hypermedia document being displayed in the
- 7 **automatically invoking** ...

method for running an application program in a distributed **hypermedia** network environment, wherein the network environment comprises at least one **client** workstation and one **network server** coupled to the network environment, the method comprising:



giving, at the client workstation **from the network server over the network environment**, at least one file containing information to enable a browser application to display at least a portion of a distributed hypermedia document within a browser-controlled window;



giving, at the client workstation **from the network server over the network environment**, at least one file containing information to enable a browser application to display at least a portion of a distributed hypermedia document within a browser-controlled window;

Visualizing remotely produced data sets

Media View also provides a facility for visualizing data sets produced on another computer, say a supercomputer accessible through a network connection. These data can be rendered on the supercomputer to produce a single image or a series of images representing an animated sequence. Simulations that run on supercomputers employ various techniques to produce images from the resultant data sets. Generally, you ascribe selected pseudocolors to pressure or temperature levels. Images are produced to permit visualization of the data through the color coding.

giving, at the client workstation **from the network server over the network environment**, at least one file containing information to enable a browser application to display at least a portion of a distributed hypermedia document within a browser-controlled window;

ally, being designed for maximum communicability, **MediaView** allows multimedia documents electronically mailed to remote sites. In short, MediaView is a communication tool that offers new dramatically different ways of interacting with .

tions. Animations are other substrutures of the system through electronic mailing and can be awakened by the recipient.

executing the browser application on the client workstation, with the browser application:



bonding to text formats to initiate processing specified by the text fo

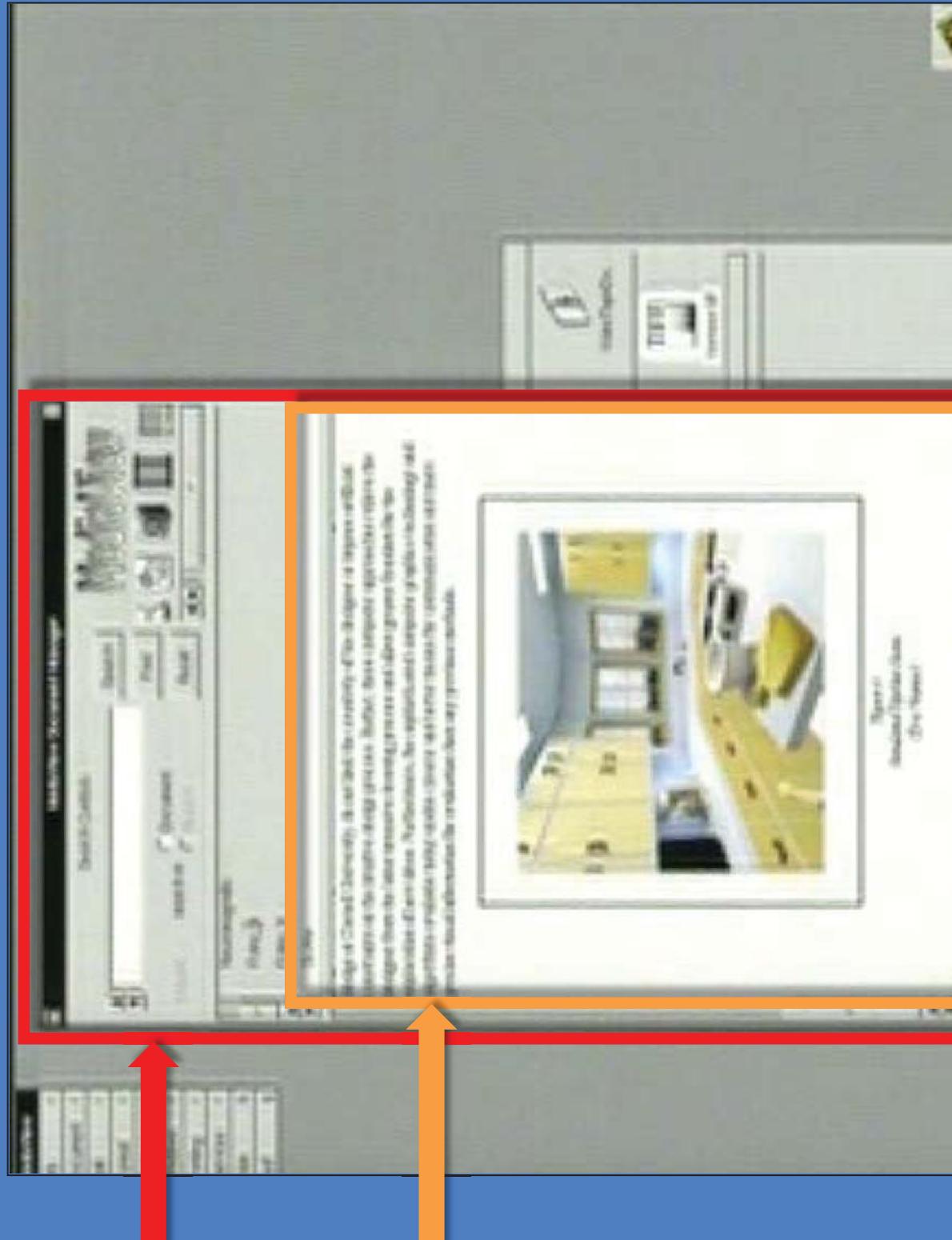
MediaView uses the Microsoft Rich Text Format (RTF) [14] to represent its textual component.

1991 ACM Article: JDX 006

MediaView Hypermedia File Excerpt:

```
RTFstream    1 IXBTtree +
DocumentData  L IXBTtree { \rtf0\ansi{\fonttbl\f0\fnil Times-
Roman; \f1\fswiss Helvetica; }
\margl120
\margr120
{\colortbl;\red0\green0\blue0; }
```

displaying at least a portion of the document **within the browser-controlled window**;



controlled window

portion of the document

Identifying an **embed text format** which corresponds to a first location in a document, where the embed text format specifies the location of at least one instance of an object external to the file, where the object has type information associated with it;

Start on “embed text format”: coded information that specifies to a browser application that an object is to be embedded in a displayed hypermedia document associated with it;

JavaView Hypermedia File Excerpt:

```
\fs72\fc1\cf1
{{ViewCell119]}
typedstream. £ " @"""
tiffButton ""-Button "" Control "" View """
Responder ""-Object ...' ..." f " ] FFFFfqIÖÈ. 84S . 84' .
@ss@... ~A ...Li@s Y‰"""
ButtonCell """
ActionCell """ Cell ~" ] *@ss.....• " " m7 i: "
buttonAction: "] ss" ] K .....• [ @ ..] @ ..] NXImage" "] S* Ä` .. s .. C '
```



Identifying an embed text format **which corresponds to a first location** in the document, where the embed text format specifies the location of at least one object external to the file, where the object has type information associated with it;

location of MediaView “object” “corresponds to” location of embedded text format”:

The hash table entries consist of the id ViewCell and its current integer ordinal position in the text stream. The code for these com-

structure and a method for populating it. The hash table entries consist of the id ViewCell and its current integer ordinal position in the text stream. The code for these com-

ntifying an embed text format which corresponds to a first location in document, where the **embed text format specifies the location of at least one object external to the file**, where the object has type information of an object associated with it;

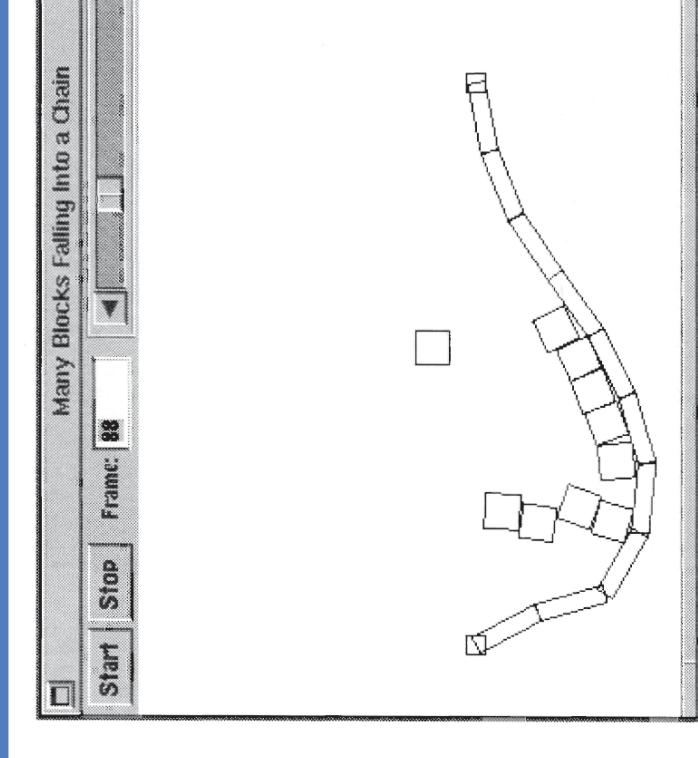


Figure 4. The Media View data set animation facility

or the data shown in Figure 4, there are 22 files with the *.Obj. They correspond to 10 blocks, 10 chain links, 10 scenes. A corresponding number of *.anm files contain, in 400 transformation matrices. Media View builds the

1991 IEEE Article: JDX 005

Identifying an embed text format which corresponds to a first location in a document, where the embed text format specifies the location of at least one part of an object external to the file, **where the object has type information associated with it**:

part on “object”: Text, images, sound files, video data, documents, and/or other types of information that is presentable to a user of a computer system

MediaView Hypermedia File Excerpt:

The screenshot shows a portion of a MediaView Hypermedia File Excerpt. The code is as follows:

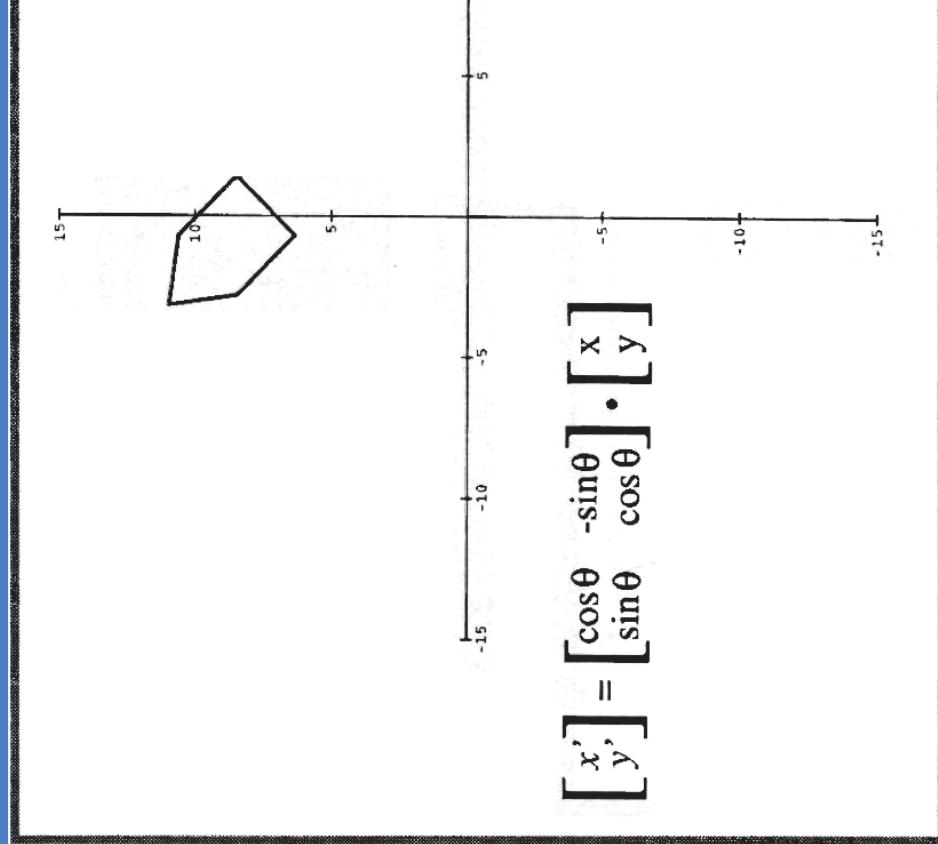
```
\Fs72\fc1\cf1
{ \ViewCell1119 ]
typedstream. \c " @ "
tiffButton " - Button " " Control " " ] View "
Responder " - Object " ' ... f " ] FFFFfqIÒÈfqIÒÈ· 84
@... "A ... \i@s y%mm
ButtonCell " "
ActionCell " ] Cell ~ " ] * @ss.... • r r m i: "
buttonAction: ss• IK .... • @ m1 @e mmm NXImage1 "1 s* A` ... " S
```

Annotations with arrows:

- A red arrow points from the text "embed text format" to the opening brace of the first code block.
- A blue arrow points from the text "information associated with the Mathematica object" to the word "Responder".

embed text format
information associated with the Mathematica object

izing the type information to identify and locate an **executable application internal to the file**; and



Linking to Mathematica

Mathematica⁶ comes bundled with Next computers, it is available. The Mach operating system on the Next provides applications to communicate easily through probe ports, which is how **Media View talks to the Mathematica application**. Alternately, standard Unix pipes direct communication with the Mathematica server, its front end. Media View uses both approaches.

omaticaly invoking the **executable application**, in response tifying of the embed text format, to execute on the client workstation to display the object and enable an end-user to directly interact with the object while the object is being displayed within a display area created location within the portion of the hypermedia document being displayed browser-controlled window.

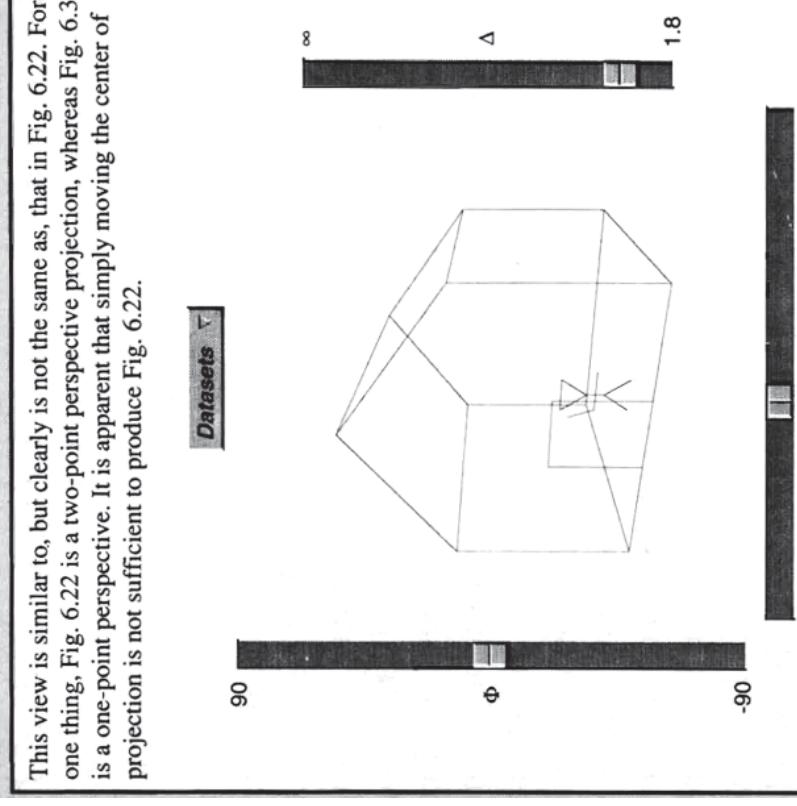
Media View Runtime Data Structure

ctually, one can broadcast any message to the multimedia components to which they can respond, they could be asked to print themselves, **play themselves or push their own button**

automatically invoking the **executable application**, in response to clicking of the embed text format, to execute on the client workstation to display the object and enable an end-user to directly interact with the object while the object is being displayed within a display area created location within the portion of the hypermedia document being displayed browser-controlled window.

Custom Components

The interactive three-dimensional view shown in Figure 3 is not a standard component of MediaView. It is a custom component that is based on a class which is *a priori* unknown to MediaView; it must be **dynamically loaded when it is first referenced**. It is not necessary to have

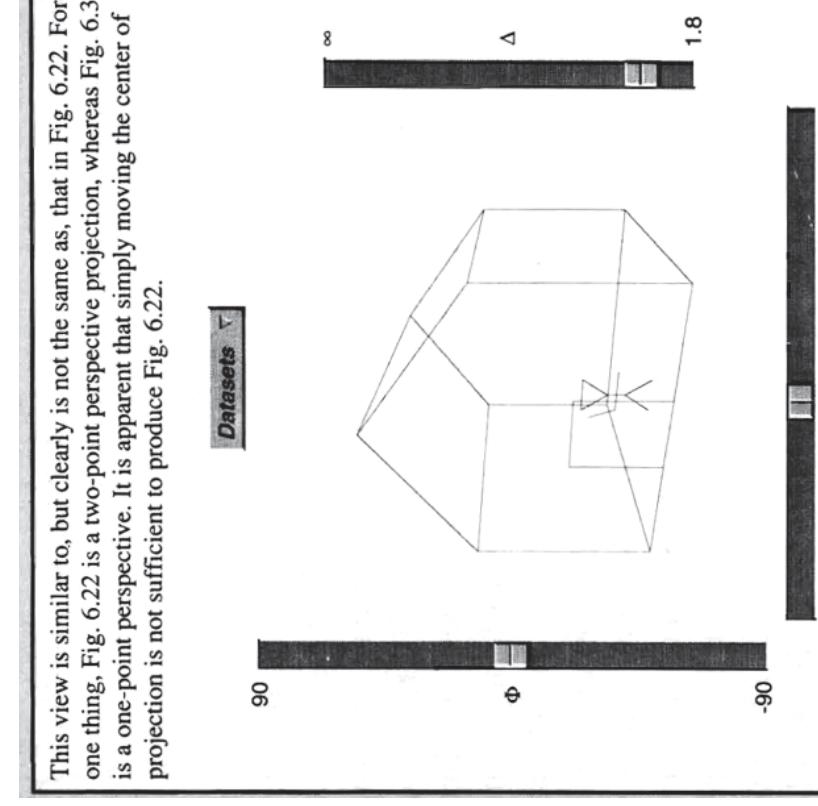


This view is similar to, but clearly is not the same as, that in Fig. 6.22. For one thing, Fig. 6.22 is a two-point perspective projection, whereas Fig. 6.3 is a one-point perspective. It is apparent that simply moving the center of projection is not sufficient to produce Fig. 6.22.

Datasets ▾

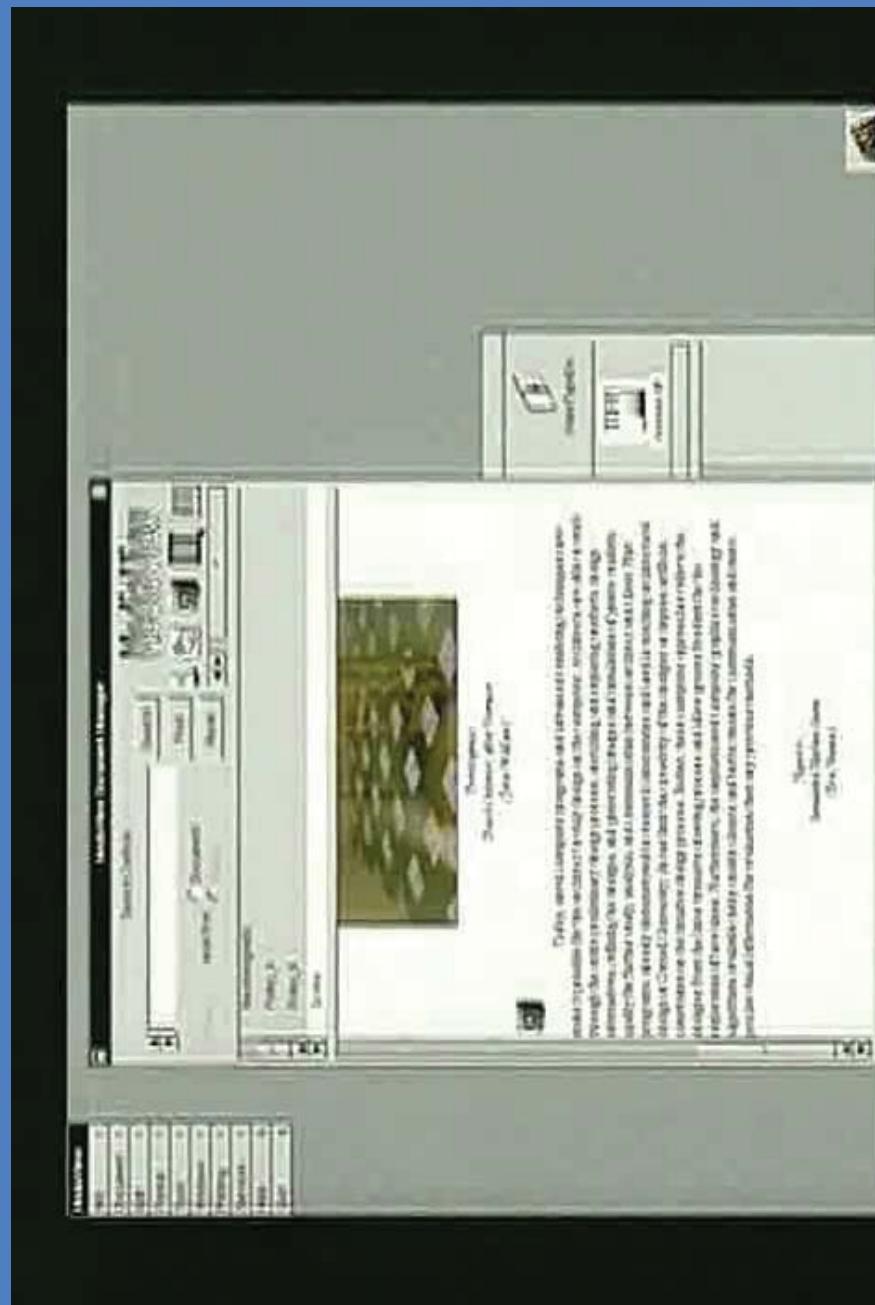
automatically invoking the executable application, in response to identifying of the embed text format, to execute on the client workstation to display the object and **enable an end-user to directly interact with the object while the object is being displayed within a display window**.

Custom Components
The **interactive three-dimensional view** shown in Figure 3 is not a standard component of MediaView. It is a custom component that is based on a class which is *a priori* unknown to MediaView; it must be dynamically loaded when it is first referenced. It is not necessary to have



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automatically invoking the executable application, in response to identifying of the embed text format, to execute on the client workstation to display the object and **enable an end-user to directly interact with the object while the object is being displayed within a display window**.



'985 Patent Claim 1

ing, at the client workstation from the network environment, at least one file containing information to enable browser application to display at least portion of distributed hypermedia document within browser-controlled window;

ing the browser application on the client workstation, with the browser application:

ding to text formats to initiate processing specified by the text formats;

ing at least portion of the document within the browser-controlled window;

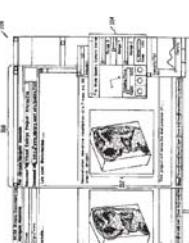
ing an embed text format which corresponds to first location in the document, where the embed text that specifies the location of at least portion of an object external to the file, where the object has type information associated with it;

the type information to identify and locate an executable application external to the file; and

automatically invoking the executable application, in response to the identifying of the embed text format, to execute on the client workstation in order to display the object and enable an end-user to directly interact with the object while the object is being displayed within a display area created at the first location within the

e evidence that satisfies asserted claims:

35 Patent Claim 1 also satisfies

United States Patent		[19]	
Doyle et al.			
[54] DISTRIBUTED HYPERMEDIA METHOD FOR AUTOMATICALLY INVOKING EXTERNAL APPLICATION PROVIDING INTERACTION AND DISPLAY OF EMBEDDED OBJECTS WITHIN A HYPERMEDIA DOCUMENT			
[75] Inventors: Michael D. Doyle, Alameda; David C. Martin, San Jose; Cheung S. Ang, Pacifica, all of Calif.			
[71] Assignee: The Regents of the University of California, Oakland, Calif.			
[21] Appl. No.: 324,443	[11]	Patent Number:	5,838,906
[22] Filed:	Oct. 17, 1994	[45] Date of Patent:	Nov. 17, 1998
[51] Int. Cl.°	C06F 9/44	COIF 15/16	
[52] U.S. Cl.	395/200.32, 395/200.28, 395/680, 395/685, 345/346, 345/347, 395/157, 395/153, 395/156	COIF 15/20	
[58] Field of Search	395/151, 118, 144, 145, 146, 147, 148, 683, 777, 783, 786, 333, 334, 335, 676, 682, 685, 188, 200, 303, 326, 346, 707/501, 513, 535, 545, 343/325, 343, 346		
[56] References Cited			
OTHER PUBLICATIONS			
Stephen Le Hunte, <EMBED>—Embedded Objects”, IBM Reference Library—HTML V.2.1, 1995, 5 pg.			
“A List of References for the World Wide Web”, 7 pg. Online, Internet, available: http://www.csail.mit.edu/Historic/WorldWideWeb/			
“NASA Metric Version Information”, 7 pg. Online, Internet, available: http://www.gsfc.nasa.gov/SDG/Software/			
“The second aspect of the evolution”, WIRED, Oct. 1994, pp. 116-152.			
(List continued on next page)			
Primary Examiner—Dinh C. Dung Attorneys, Agents, or Firm—Towsend and Townsend and Clegg LLP			
ABSTRACT			
A system allowing a user of a browser program on a computer to access to an object distributed in memory, connected to an external application program, to access and interact with an embedded program object. The program object is embedded into a hypermedia document much like data objects. The user may select the program object from the screen. Once selected the program object is executed by the client. The client may then execute on a client server or a client computer, or on a client computer in a distributed processing arrangement. After launching the program object, the user is able to interact with the object as the invention provides for copying, interprocess communication between the application object (program) and the client computer. One embodiment of the invention allows a user to view large and complex multi-dimensional objects from within the browser's window. The user can manipulate a control panel to change the viewpoint used to view the image. This invention allows a program to be run on a remote server and communicate with a client computer running a browser. The invention also allows the client computer thus providing the user of the client computer with interactive features and allowing the user to have access to greater computing power than may be available at the user's client computer.			
U.S. PATENT DOCUMENTS			
4,835,029	Harter et al.	207/516	
4,847,054	Doyle	34/076	
4,900,378	Wolff et al.	395/150	
5,115,533	Nelson et al.	395/150	
5,202,828	Verheyen et al.	395/150	
5,234,947	Bernardino et al.	395/150	
5,261,951	Kohy et al.	395/150	
5,337,999	Ang et al.	395/150	
5,321,906	Melchart et al.	395/152	
5,321,908	61,994	395/164	
5,347,032	Holp et al.	395/200	
(List continued on next page)			
10 Claims, 9 Drawing Sheets			
Microfiche Appendix Included (4 Microfiche, 375 Pages)			
			

A method for running an application program in a distributed hypermedia network environment, wherein the network environment comprises at least one client workstation coupled to the network environment, one network server coupled to the network environment, and one network server comprising:

giving, at the client workstation from the network server over the network environment, at least one file containing information to enable a browser application to display at least a portion of a distributed hypermedia document within a browser-controlled window;

executing the browser application on the client workstation, with the browser application:

binding to text formats to initiate processing specified by the text formats;

displaying at least a portion of the document within the browser-controlled window;

identifying an embed text format which corresponds to a first location in the document, where the embed text format specifies the location of at least a portion of an object external to the file, where the object has type information associated with it;

zining the type information to identify and locate an executable application external to the file; and

automatically invoking the executable application, in response to the identifying of the embed text format, to execute on the client workstation in order to display the object and enable an end-user to directly interact with the object while the object is being displayed within a display area created at the first location within the portion of the hypermedia document being displayed in the

16. One or more computer readable media encoded software comprising computer executable instructions use in a distributed hypermedia network environment wherein the network environment comprises at least one client workstation and one network server **coupled to the network environment, and when the software executed**:

1 receive, at the client workstation from the network server over the network environment, at least one file containing information to enable a browser application to display at least a portion of a distributed hypermedia document within a browser-controlled window;

2 cause the client workstation to utilize the browser to:

3 respond to text formats to initiate processing specified by the text formats;

4 display at least a portion of the document within the browser-controlled window;

5 identify an embed text format corresponding to a location in the document, the embed text format specifying the location of at least a portion of an object external to the file, with the object having information associated with it;

6 utilize the type information to identify and locate an executable application external to the file; and

7 automatically **invoke** the executable application in response to the identifying of the embed text format, to execute on the client workstation in order to display the object and enable an end-user to directly interact with the object while the object is being displayed within a display area created at the first location within the portion of the hypermedia document being displayed in the

1. A method for running an application program in a distributed hypermedia network environment, wherein the network environment comprises at least one client workstation and one network server coupled to the network environment, method comprising:

giving, at the client workstation from the network server over the network environment, at least one file containing information to enable a browser application to display at least a portion of a distributed hypermedia document within a browser-controlled window;

executing the browser application on the client workstation, with the browser application:

- 1. sending to text formats to initiate processing specified by the text formats;
- 2. displaying at least a portion of the document within the browser-controlled window;

identifying an embed text format which corresponds to a first location in the document, where the embed text format specifies the location of at least a portion of an object external to the file, where the object has type information associated with it;

using the type information to identify and locate an executable application external to the file; and

automatically invoking the executable application, in response to the identifying of the embed text format, to execute on the client workstation in order to display the object and enable an end-user to directly interact with the object while the object is being displayed within a display area created at the first location within the portion of the hypermedia document being displayed in the

1. A method for running an application program in a computer network environment, comprising:
providing at least one client workstation and one server coupled to said network environment, wherein said network environment is a distributed hypertext environment;

2. executing, at said client workstation, a browser application, that parses a first distributed hypertext document to identify text formats included in said distributed hypermedia document and for responding predetermined text formats to initiate processing specified by said text formats; utilizing said browser to display, on said client workstation, at least a portion of a first hypermedia document received over said work from said server, wherein the portion of said hypermedia document is displayed within a browser-controlled window on said client work wherein said first distributed hypermedia document includes an embed text format, located at a first location in said first distributed hypermedia document, specifies the location of at least a portion of an object external to the first distributed hypermedia document, wherein said object has type information associated with it utilized by said browser to identify and locate an executable application external to the first distributed hypermedia document, and wherein said embed text format is parsed by said browser to automatically invoke said executable application to execute on an end-user client workstation in order to display said object enable interactive processing of an end-user directly interact with said object within a display area created at said first location within the portion of the distributed hypermedia document being displayed in the
- 5.
- 4.
- 6.
- 7.

1985 Patent

- 2.** The method of claim **1** where:
the information to enable comprises text formats.
- 3.** The method of claim **2** where the **text formats are HTML tags.**

- 17.** The computer readable media of claim **16** where:
the information to enable comprises text formats.
- 18.** The computer readable media of claim **17** where:
the text formats are HTML tags.

- 21.** The method of claim **20** where:
the information to enable comprises text formats.
- 22.** The method of claim **21** where:
the text formats are HTML tags.

- 37.** The method of claim **36** where:
the information to enable comprises text formats.
- 38.** The method of claim **37** where:
the text formats are HTML tags.

- 41.** The method of claim **40** where:
the information to enable comprises text formats.
- 42.** The method of claim **41** where:

oted in 1991 that including hyperlinking in MediaView was obvious:

ture Enhancements

The most obvious and most important enhancement is a **hyperlinking capability**. This has been and will be implemented in the next few months. Its design draws upon the rich

1991 Usenix Article: JI

obvious to combine MediaView with other browsers, e CERN browser

10. The method of claim 1 where having type information associated is by including type information in the embedded text format.

Hypermedia File Excerpt:

m 36 & 40: . . . wherein the executable application is part of a **distributed application**, and wherein at least a portion of the distributed application is for execution on a remote network server coupled to the distributed hypermedia network environment.

rt on “distributed application”: an application that is **capable** of being taken up and performed among two or more computers

zing remotely produced data sets

view also provides a facility for visualizing data sets on another computer, say a supercomputer accessible via a network connection. These data can be rendered on a computer to produce a single image or a series of representing an animated sequence. Simulations that supercomputers employ various techniques to produce the resultant data sets. Generally, you ascribe several colors to pressure or temperature levels. Images are used to permit visualization of the data through the

Since Mathematica⁶ comes bundled with Next computer readily available. The Mach operating system on the form allows applications to communicate easily through programmable ports, which is how **Media View** interacts with the **Mathematica** application. Alternately, standard protocols provide direct communication with the Mathematica bypassing its front end. Media View uses both approaches to permit visualization of the data through the

1. A method for running an application program in a distributed hypermedia network environment, wherein the network environment comprises at least one client workstation and one network server coupled to the network environment, the method comprising:

16. One or more computer readable media encoded with software comprising computer executable instructions, for use in a distributed hypermedia network environment, wherein the network environment comprises at least one client workstation and one network server coupled to the network environment, and when the software is executed operable to:

17. The computer readable media of claim 16 where:
the information to enable comprises text formats.
18. The computer readable media of claim 17 where:
the text formats are HTML tags.

6. A computer program product for use in a system having at least one client workstation and one network server coupled to said network environment, wherein said network environment is a distributed hypermedia environment, the computer program product comprising:

20. A method of **serving** digital information in a computer network environment having a network server coupled to said network environment, and where the network environment is a distributed hypermedia environment, the method comprising:

40. A method of **serving** digital information in a computer network environment having a network server coupled to said computer network environment, and where the network environment is a distributed hypermedia network environment, the method comprising:

- 41.** The method of claim 40 where:
the information to enable comprises text formats.
42. The method of claim 41 where:
the text formats are HTML tags.

1985 Patent

asserted claims are anticipated or obvious based on Viola

- Viola disclosed the claims more than one year before the patent was filed
- Obvious to combine any of the prior art to fill any gaps

asserted claims are obvious based on MediaView

- Obvious to combine MediaView with CERN web browser