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[Continued on next page]

(54) Title: WEB WIDGETS

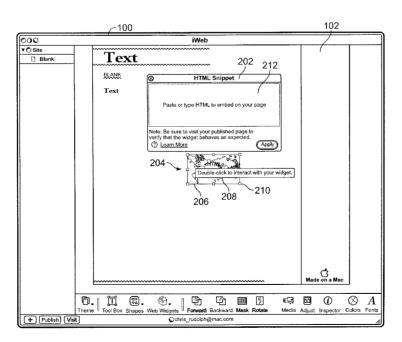


FIG. 2A

(57) Abstract: A media authoring tool includes web widgets for creating page elements for various types of media (e.g., websites, blogs, broadcasts, slide shows, multimedia presentations). A widget inspector associated with the widget can be used to modify the behaviour of the widget.







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WEB WIDGETS

TECHNICAL FIELD

[0001] The disclosed implementations are generally related to media authoring tools and user interfaces.

BACKGROUND

Website creation tools targeted to the consumer market allow end users to create websites and other types of media (e.g., blogs, podcasts, multimedia presentations, slide shows) with little or no knowledge of web languages. One popular website creation tool is iWeb®, developed by Apple Inc. (Cupertino, California). Users of website creation tools often desire to have a large selection of interesting page elements (e.g., text, images, video, animation) to choose from when creating a website. Some of these elements, however, can be tedious or time consuming to create and/or may require the user to have extensive knowledge of expert features provided by the tool. Some website creation tools require the user to exit the tool or interact with a different user interface of the tool to accomplish certain tasks, such as interacting with third party web services (e.g., map services, advertising services) or searching directories and files for content (e.g., digital photos) to be included in the website.

SUMMARY

[0003] A media authoring tool includes web widgets for creating page elements for various types of media (e.g., websites, blogs, broadcasts, slide shows, multimedia presentations). A widget inspector associated with the widget can be used to modify the behaviour of the widget.

[0004] In some implementations, a method includes: generating a page for presentation in a user interface of a media authoring tool; generating a widget and an associated widget inspector; presenting the page and the widget inspector in the user interface; presenting the widget on the page; obtaining a user input through

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the widget inspector; and automatically modifying a behavior of the widget based on the user input.

[0005] In some implementations, a method includes: generating a page for presentation in a user interface of a media authoring tool; obtaining a user input specifying a content source; generating a widget for displaying content from the content source, the widget including a navigation control; presenting the page and the widget in the user interface; presenting first content through the widget; obtaining navigation control input; and presenting second content through the widget based on the navigation control input.

[0006] Other implementations are disclosed that are directed to systems, methods and computer-readable mediums.

DESCRIPTION OF DRAWINGS

[0007] FIG. 1 is a screen shot of an example user interface for a media authoring tool.

[0008] FIGS. 2A and 2B are screen shots of an example web widget and web widget inspector for generating Hypertext Markup Language (HTML) snippets in the media authoring tool of FIG. 1.

[0009] FIGS. 3A and 3B are screen shots of example account dialogs for accessing or creating an advertising account in the media authoring tool of FIG. 1.

[0010] FIG. 3C is a screen shot of an example web widget and web widget inspector for displaying advertisements in the media authoring tool of FIG. 1.

[0011] FIG. 4 is a screen shot of an example web widget and web widget inspector for displaying maps in the media authoring tool of FIG. 1.

[0012] FIG. 5 is a screen shot of example web widgets for displaying and navigating content in the media authoring tool of FIG. 1.

[0013] FIG. 6 is a screen shot of example process for implementing the features described in reference to FIGS. 1-5.

[0014] FIG. 7 is a screen shot of example software stack for implementing the features and processes described in reference to FIGS. 1-6.

[0015] FIG. 8 is a screen shot of example system for implementing the features and processes described in reference to FIGS. 1-7.

DETAILED DESCRIPTION

Web Widget Overview

[0016] FIG. 1 is a screen shot of an example user interface 100 for a media authoring tool. The media authoring tool can be used to create various media, including but not limited to: websites, blogs, multimedia presentations, slide shows, media broadcasts (e.g., podcasts, videocasts), interactive learning materials, animations, etc. In the examples that follow, references are made to screen shots for iWeb® website creation tool. The disclosed implementations, however, are equally applicable to other media authoring tools, including markup language editors (e.g., HTML or XHTML editors).

Referring to FIG. 1, a user has selected a "blank" page 102 from a menu 104 in the user interface 100 of the media authoring tool. In some implementations, the user can select a page template from a list of page templates. The page templates can be associated with themes. A page template can include a professional looking layout of various page elements (e.g., text boxes, shapes, web widgets) having various properties or attributes (e.g., font, size, location, orientation, color, opacity, texture, shape, shadows, animation) that the user can manipulate and customize through the user interface 100. With some media authoring tools (e.g., iWeb®), a website created by a user can be automatically published to the Internet, where the website can be viewed by anyone with a web browser.

[0018] In some implementations, the user interface 100 can include a tool bar 106 for allowing the user to select various editing tools for creating and modifying elements on the webpage 102. Some examples of tools include a "text box" tool for creating text boxes, a "shapes" tool for adding shapes and a "web widget" tool for invoking web widgets.

[0019] A "web widget" functions like an application in the media authoring tool. Web widgets can be built using various web technologies including, for

example, a markup language (e.g., HTML, XHTML), Cascading Style Sheets (CSS), JavaScript®, etc. Web widgets can have their own user interfaces and controls for assisting the user in creating various page elements. A web widget can differentiate whether it is running in a media authoring tool or in a browser (e.g., Safari®).

[0020] FIGS. 2A and 2B are screen shots of an example web widget 204 and associated web widget inspector 202 for generating HTML snippets in the media authoring tool of FIG. 1. Upon selection of an HTML snippet from the menu 108 or other selection mechanism (e.g., a pull-down menu), the web widget 204 is presented in the user interface 100 as a bounding box 206 enclosing a display area 208. The bounding box 206 can be dragged to any desired position on the page 102. The bounding box can include handles 210 for adjusting the dimensions of the bounding box 206. In some implementations, the user can interact with the widget 204 by double-clicking on the display area 208.

[0021] Upon selection of the HTML snippet from the menu 108 or other selection mechanism, the widget inspector 202 is presented on the web page 102. In some implementations, the web inspector 202 includes an editing window 212 for pasting or typing HTML instructions. The user can type one or more HTML instructions in the editing window 212 and click the "Apply" button to have the instructions interpreted and displayed in the display area 208 of the web widget 204.

[0022] Referring to FIG. 2B, the user has typed the HTML instruction Hello/p> and World in the editing window 212 of the widget inspector 202. When the user clicks the "Apply" button, the HTML instructions are interpreted and the text "Hello World" is presented in the display area 208 of the web widget 204.

[0023] The HTML web widget 204 allows the user to easily generate HTML snippets and immediately see the results of those snippets in a single user interface of the tool. The user does not have to exit the tool or open a new interface which could disrupt the user's workflow. Nor does the user have to publish the page to see how the snippet will be rendered in a browser.

FIGS. 3A and 3B are screen shots of example account dialogs 302, 304, for accessing or creating an advertising account (e.g., a Google AdSenseTM account) in the media authoring tool of FIG. 1. Referring to FIGS. 1, 3A and 3B, upon the user's selection of an advertisement ("ad") item from the menu 108 shown in FIG. 1, the account dialog 302 is presented in the user interface 100. In the example shown, the user enters his email address and zip code or phone number to access his existing ad account. In some cases, the user can be provided with a mechanism for creating a new account (e.g., button), which directs the user to further dialogs for setting up an ad account.

[0025] FIG. 3B illustrates one possible implementation of an account dialog 304, which can be presented to the user to indicate that a new account was successfully created. Although the examples shown in FIGS. 3A and 3B are related to ad accounts, other account dialogs can be presented for other types of accounts for which access or creation is desired (e.g., email accounts, financial accounts).

[0026] FIG. 3C is a screen shot of an example web widget 308 and web widget inspector 306 for displaying "live" ads in the media authoring tool of FIG. 1. A "live" ad can be an ad that is delivered by an ad server to an ad space on a web page while the page is being viewed in a browser by the user. In some implementations, the widget inspector 306 includes controls 310 and 312, for modifying the size and color of the "live" ad displayed by the web widget 308. Input provided by the user through the widget inspector 306 can be applied to the "live" ad presented by the web widget 308. Other controls can be included in the widget inspector 306 to provide additional control over how an ad is presented on the page.

[0027] The ad web widget 308 allows the user to easily interface with an ad service provider, including account access and creation, in a single user interface of the media authoring tool. The user does not have to exit the tool or open a new interface which could disrupt the user's workflow. Nor does the user have to publish the page to see how the ad will be rendered in a browser.

[0028] FIG. 4 is a screen shot of an example web widget 406 and web widget inspector 402 for displaying maps in the media authoring tool of FIG. 1. In the

example shown, the user has selected a map web widget from the menu 108, resulting in the presentation of the map widget 406 and associated widget inspector 402 on the page 102. The widget inspector 402 can include a text box 408 for typing or pasting an address. In some implementations, the text box 408 can include a default address which can be specified by the user or the map service. An address in the text box 408 can determine a portion of a map that will be displayed by the widget 406 when an "Apply" button is clicked by the user. Additionally, a placemark (e.g., a pushpin icon) can be overlaid on the map to mark the location of the address in the map. In this example, the user entered "1 Infinite Loop, Cupertino, CA 95014, USA" in the text box 408, and after clicking the "Apply" button, a map portion including the address is displayed in the web widget 406 with a placemark 412 to mark the address in the map. Other navigation controls can be included with the widget inspector 402, including navigation controls 410 (e.g., zoom control, address bubble). In some implementations, the map can include one or more links 404 (e.g., hypertext links) to other network resources or to receive additional information. In this example, the controls 410 include check boxes for activating and deactivating the display of zoom controls and an address bubble, respectively. Other controls are possible (e.g., tilt controls). The user can interact with the map by, for example, double-clicking the web widget 406. Once the web widget 406 activated the user can use their mouse (or finger or stylus if a touch-sensitive screen) to move the map from within the web widget 406.

[0029] In some implementations, the map can be provided by a map service (e.g., Google™ Maps). The web widget 406 can provide all the supporting code (e.g., HTML, JavaScript®, CSS) for connecting to the map service, sending requests for map data, receiving the map data in response to the requests, and the formatting of map data for presentation in the web widget 406. A communication channel can be established between the web widget 406 and the map service using an operating system (OS) service or a library service provided by the system hosting the media authoring tool. In some implementations, the host system (e.g., a personal computer) can be coupled to the Internet using a wired or wireless communication link. The OS or library service can establish the communication

channel using known communication protocols (e.g., TCP/IP, HTML, Secure Socket Layer).

[0030] The map web widget 308 allows the user to easily interface with a map service in a single user interface of the media authoring tool. The user does not have to exit the tool or open a new interface which could disrupt the user's workflow. Nor does the user have to publish the page to see how the map will be rendered in a browser.

[0031] FIG. 5 is a screen shot of example web widgets 504, 506, for displaying content (e.g., digital photos, video clips) in a media authoring tool of FIG. 1. In this example, the user selected a web gallery widget from the menu 108. In response to the selection, the web widgets 504, 506, were presented on the page 102. In some implementations, the web widgets 504, 506, include bounding boxes with handles for resizing the web widgets. In some implementations, the web widgets 504, 506, can include a control 508 for scrolling or navigating through images or videos in a gallery or other file selected by the user. Other controls are possible. For example, if a video clip is to be displayed, then video controls can be included on the widget (e.g., play, forward, reverse, stop, pause). In some implementations, the web widgets 504, 506, can be used to navigate through pages of a document (e.g., a .pdf file).

Example Web Widget Process

[0032] FIG. 6 is a screen shot of example process 600 for implementing the features described in reference to FIGS. 1-5. In some implementations, the user invokes a media authoring tool on a host system (e.g., a personal computer). Alternatively, the media authoring tool can be provided on a server. The user selects a blank page or template page. The user also selects a web widget from a menu (e.g., menu 108).

[0033] Responsive to the user selection, a page is generated for presentation in a user interface of the media authoring tool (602). A widget and an associated widget inspector is generated (604). The page is presented in the user interface, together with the widget inspector (606). In some implementations, the web widget is presented on the page (608). In other implementations, the web widget

can be presented at another location in the user interface, and the user can then move the web widget onto the page (e.g., drag and drop). The web widget can include a bounding box which includes handles for resizing. The web widget and widget inspector can be clicked and dragged to a desired located on the page. The user provides input into the widget inspector by typing, pasting and/or selecting predefined options (610). The behaviour of the web widget can be automatically modified based on the input (612).

Example Software Stack

[0034] FIG. 7 is a screen shot of example software stack 700 for implementing the features and processes described in reference to FIGS. 1-6. The software stack 700 is based on the Mac OS® software stack. It should be noted, however, that any software stack can be used to implement the features and processes described in reference to FIGS. 1-6.

The software stack 700 can include an application layer and operating system layers. In this Mac OS® example, the application layer can include iWeb Core and Web Widget applications. The iWeb Core code includes code for the iWeb® website creation tool and the web widget code includes code for implementing web widgets. The web widget code can include HTML, CSS, JavaScript® and other resources. CSS is a stylesheet language used to describe the presentation of a document written in a markup language (e.g., style web pages written in HTML, XHTML). CSS can be used by authors and readers of web pages to define colors, fonts, layout, and other aspects of document presentation. JavaScript® is a scripting language which can be used to write functions that are embedded in or included from HTML pages and interact with a Document Object Model (DOM) of the page.

In some implementations, the web widget code in the application layer uses WebKit® services. WebKit® is an application framework included with Mac OS X which is the basis of Mac OS X's Safari web browser. The framework allows third party developers to easily include Safari functionality in custom applications. WebKit® includes an Objective-C Application Programming Interface (API) that provides the capability to interact with a web server, retrieve

and render web pages, download files, and manage plug-ins. WebKit® also includes content parsers (e.g., HTML, CSS), a JavaScript® bridge (e.g., for synchronizing between Safari® and Java applets), a JavaScript® engine (interpreter) and a DOM. The WebKit® can use services provided by Core Services, which provide basic low level services. The Core Services can request services directly from the Core OS (e.g., Darwin/Unix).

[0037] The software stack 700 provides the software development tools to create web widgets and the various features and processes described in reference to FIGS. 1-6. Other software stacks and architectures are possible, including architectures having more or fewer layers, different layers or no layers.

Example System Architecture

[0038] FIG. 8 is a screen shot of example system 800 for implementing the features and processes described in reference to FIGS. 1-7. The system 800 may host the software stack 700, described in reference to FIG. 7. The system 800 includes a processor 810, a memory 820, a storage device 830, and an input/output device 840. Each of the components 810, 820, 830, and 840 are interconnected using a system bus 850. The processor 810 is capable of processing instructions for execution within the system 800. In some implementations, the processor 810 is a single-threaded processor. In other implementations, the processor 810 is a multi-threaded processor. The processor 810 is capable of processing instructions stored in the memory 820 or on the storage device 830 to display graphical information for a user interface on the input/output device 840.

[0039] The memory 820 stores information within the system 800. In some implementations, the memory 820 is a computer-readable medium. In other implementations, the memory 820 is a volatile memory unit. In yet other implementations, the memory 820 is a non-volatile memory unit.

[0040] The storage device 830 is capable of providing mass storage for the system 800. In some implementations, the storage device 830 is a computer-readable medium. In various different implementations, the storage device 830 may be a floppy disk device, a hard disk device, an optical disk device, or a tape device.

[0041] The input/output device 840 provides input/output operations for the system 800. In some implementations, the input/output device 840 includes a keyboard and/or pointing device. In other implementations, the input/output device 840 includes a display unit for displaying graphical user interfaces.

Various implementations of the systems and techniques described here can be realized in digital electronic circuitry, integrated circuitry, specially designed ASICs (application specific integrated circuits), computer hardware, firmware, software, and/or combinations thereof. These various implementations can include implementation in one or more computer programs that are executable and/or interpretable on a programmable system including at least one programmable processor, which may be special or general purpose, coupled to receive data and instructions from, and to transmit data and instructions to, a storage system, at least one input device, and at least one output device.

These computer programs (also known as programs, software, software applications or code) include machine instructions for a programmable processor, and can be implemented in a high-level procedural and/or object-oriented programming language, and/or in assembly/machine language. As used herein, the terms "machine-readable medium" and "computer-readable medium" refer to any computer program product, apparatus and/or device (e.g., magnetic discs, optical disks, memory, Programmable Logic Devices (PLDs)) used to provide machine instructions and/or data to a programmable processor, including a machine-readable medium that receives machine instructions as a machine-readable signal. The term "machine-readable signal" refers to any signal used to provide machine instructions and/or data to a programmable processor.

[0044] To provide for interaction with a user, the systems and techniques described here can be implemented on a computer having a display device (e.g., a CRT (cathode ray tube) or LCD (liquid crystal display) monitor) for displaying information to the user and a keyboard and a pointing device (e.g., a mouse or a trackball) by which the user can provide input to the computer. Other kinds of devices can be used to provide for interaction with a user as well; for example, feedback provided to the user can be any form of sensory feedback (e.g., visual

feedback, auditory feedback, or tactile feedback); and input from the user can be received in any form, including acoustic, speech, or tactile input.

The systems and techniques described here can be implemented in a computing system that includes a back end component (e.g., as a data server), or that includes a middleware component (e.g., an application server), or that includes a front end component (e.g., a client computer having a graphical user interface or a Web browser through which a user can interact with an implementation of the systems and techniques described here), or any combination of such back end, middleware, or front end components. The components of the system can be interconnected by any form or medium of digital data communication (e.g., a communication network). Examples of communication networks include a local area network ("LAN"), a wide area network ("WAN"), and the Internet.

[0046] The computing system can include clients and servers. A client and server are generally remote from each other and typically interact through a communication network. The relationship of client and server arises by virtue of computer programs running on the respective computers and having a client-server relationship to each other.

[0047] Although a few implementations have been described in detail above, other modifications are possible. For example, the flow diagrams depicted in the figures do not require the particular order shown, or sequential order, to achieve desirable results. In addition, other steps may be provided, or steps may be eliminated, from the described flow diagrams, and other components may be added to, or removed from, the described systems. Accordingly, various modifications may be made to the disclosed implementations and still be within the scope of the following claims.

CLAIMS

1. A method comprising:

generating a page for presentation in a user interface of a media authoring tool;

generating a widget and an associated widget inspector;

presenting the page and widget inspector in the user interface;

presenting the widget on the page;

obtaining a user input through the widget inspector; and

automatically modifying a behavior of the widget based on the user input.

2. The method of claim 1, further comprising:

automatically establishing a communication channel between the widget and a service without user intervention; obtaining content from the service; and presenting the content through the widget.

- 3. The method of claim 2, wherein the content is map data.
- 4. The method of claim 3, wherein the user input is associated with a geographic location and the map data includes a placemark corresponding to the geographic location.
- 5. The method of claim 4, wherein the user input includes information associated with the geographic location and the information is presented in proximity to the placemark.
- 6. The method of claim 3, wherein the user input is associated with a geographic location and the widget presents one or more navigation controls for allowing the user to navigate the map data.

7. The method of claim 6, wherein at least one navigation control is a zoom control.

- 8. The method of claim 2, wherein the content is advertising information.
- 9. The method of claim 8, further comprising:

modifying a presentation of the advertising information through the widget based on the user input.

- 10. The method of claim 9, wherein the modifying includes modifying the size or color of the advertising information.
- 11. The method of claim 1, wherein the page is one of a web page, blog, broadcast, multimedia presentation and interactive learning material.
- 12. The method of claim 1, wherein the user can directly interact with the content presented through the widget.
- 13. The method of claim 1, wherein the input is a markup language instruction and the widget renders the markup language instruction.
- 14. The method of claim 2, further comprising:

presenting one or more account dialogs for allowing the user to access or create one or more accounts with the service.

15. A method comprising:

generating a page for presentation in a user interface of a media authoring tool;

obtaining a user input specifying a content source;

generating a widget for displaying content from the content source, the widget including a navigation control;

presenting the page and the widget in the user interface;
presenting first content through the widget;
obtaining navigation control input; and
presenting second content through the widget based on the navigation control input.

16. A computer-readable medium having instructions stored thereon, which, when executed by a processor, causes the processor to perform operations comprising: generating a page for presentation in a user interface of a media authoring tool;

generating a widget and an associated widget inspector;
presenting the page and widget inspector in the user interface;
presenting the widget on the page;
obtaining a user input through the widget inspector; and
automatically modifying a behavior of the widget based on the user

17. The computer-readable medium of claim 16, further comprising:
automatically establishing a communication channel between the
widget and a service without user intervention;
obtaining content from the service; and
presenting the content through the widget.

input.

- 18. The computer-readable medium of claim 17, wherein the content is map data.
- 19. The computer-readable medium of claim 17, wherein the content is advertising information.

20. The computer-readable medium of claim 16, wherein the page is one of a web page, blog, broadcast, multimedia presentation and interactive learning material.

- 21. The computer-readable medium of claim 16, wherein the user can directly interact with the content presented through the widget.
- 22. The computer-readable medium of claim 16, wherein the input is a markup language instruction and the widget renders the markup language instruction.
- 23. The computer-readable medium claim 17, further comprising:

 presenting one or more account dialogs for allowing the user to access or create one or more accounts with the service.
- 24. A computer-readable medium having instructions stored thereon, which, when executed by a processor, causes the processor to perform operations comprising: generating a page for presentation in a user interface of a media authoring tool;

obtaining a user input specifying a content source;

generating a widget for displaying content from the content source, the widget including a navigation control;

presenting the page and the widget in the user interface; presenting first content through the widget; obtaining navigation control input; and

presenting second content through the widget based on the navigation control input.

25. A system comprising:

interface;

means for generating a page for presentation in a user interface of a media authoring tool;

means for generating a widget and an associated widget inspector; means for presenting the page and widget inspector in the user

means for presenting the widget on the page;

means for obtaining a user input through the widget inspector; and

means for automatically modifying a behavior of the widget based on
the user input.

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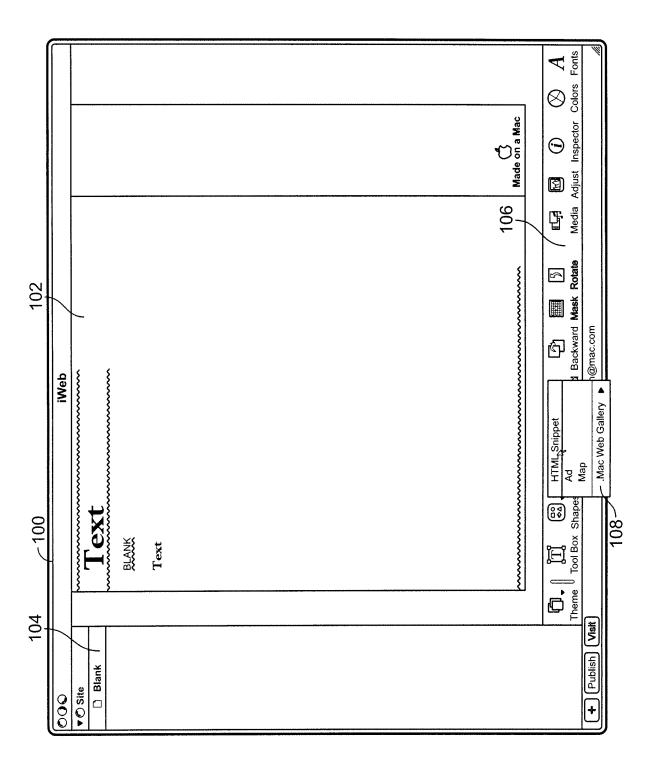
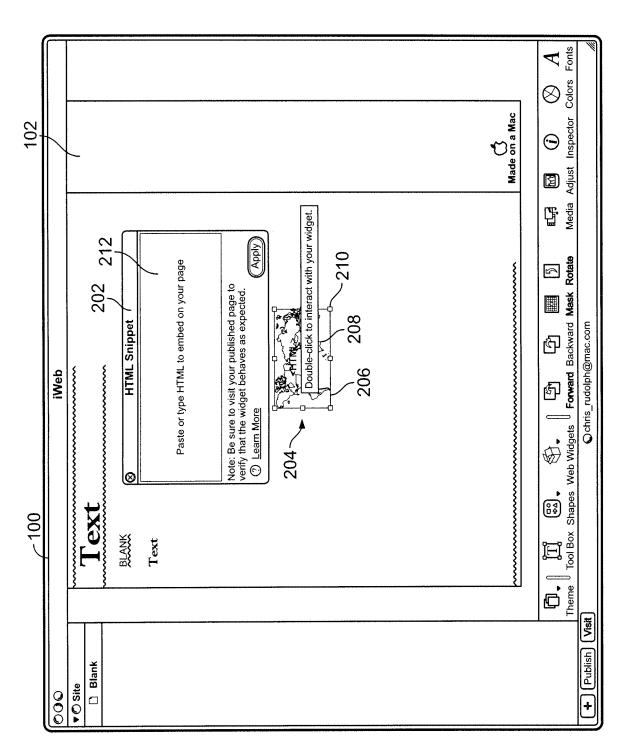


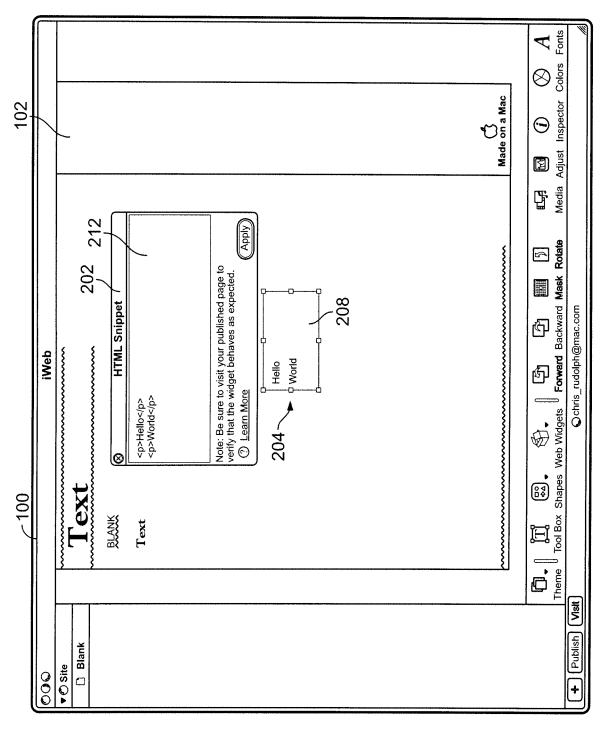
FIG. 1

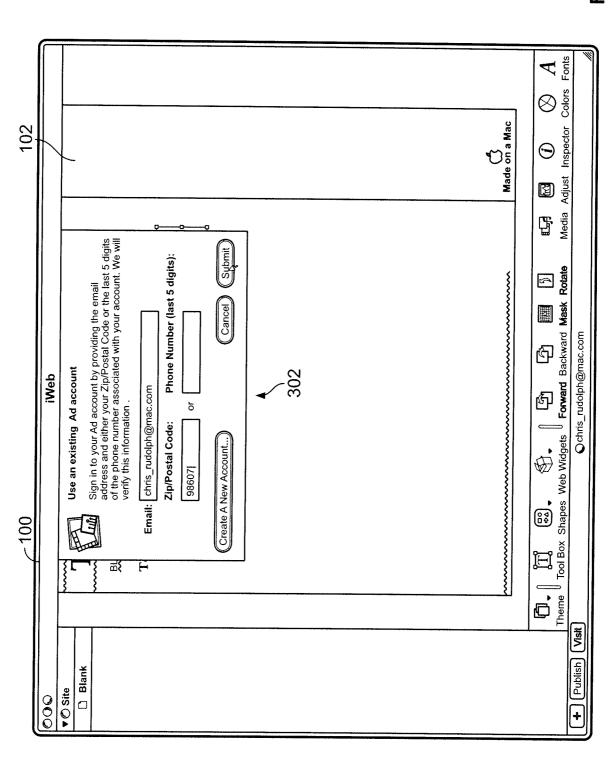




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FIG. 2B





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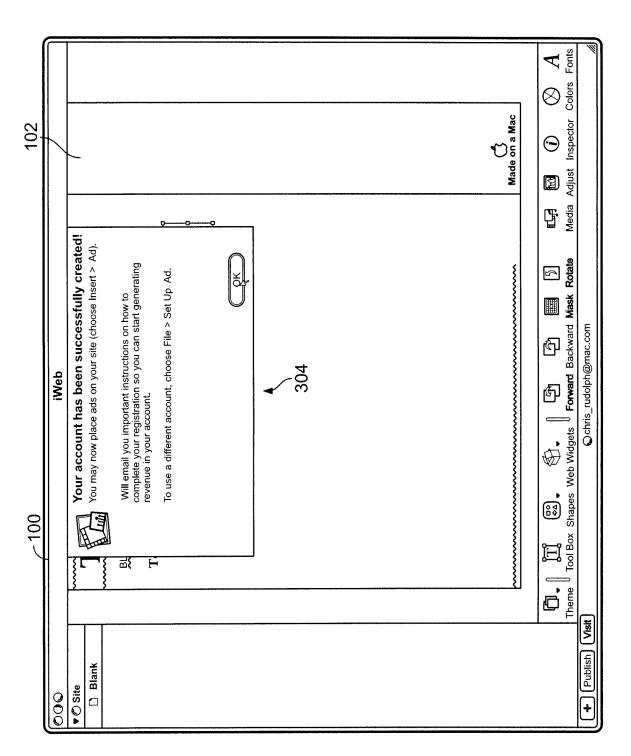
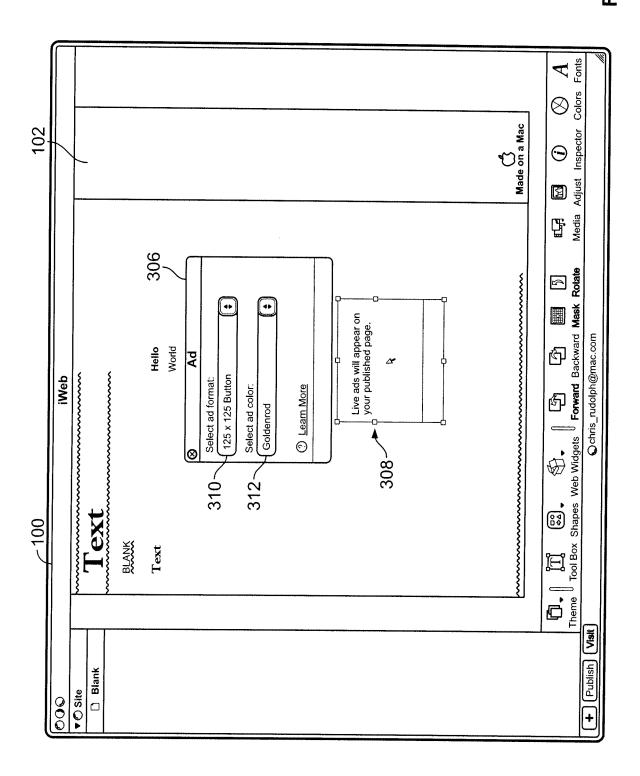


FIG. 3B



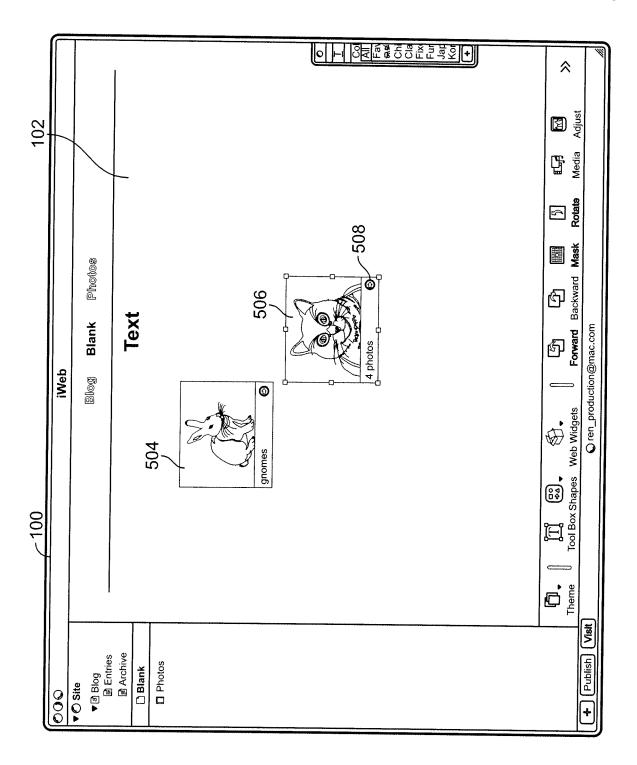
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Fonts Colors Inspector 102 Θ Adjust B Media Vista © 2007 Tele Sa Nap data Address: 国 1. Infinite Loop Cupertino, CA 95014 Get directions: <u>Io here</u> - <u>From here</u> 402 B Satellite Rotate 1. Infinite Loop, Cupertino, CA 95014, USA Forward Backward Mask Ochris_rudolph@mac.com Show: Zoom controls Apply Map ⑤ 500 ft iWeb (1) Learn More g Address:<u>@</u> N De Anza Blvd N De Anza Bly Shapes Web Widgets 410~ Live ads will appear on yo 88 100 Tool Box Text page Theme **Visit** □ Blank ▼ O Site 000

FIG. 4

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FIG. 5



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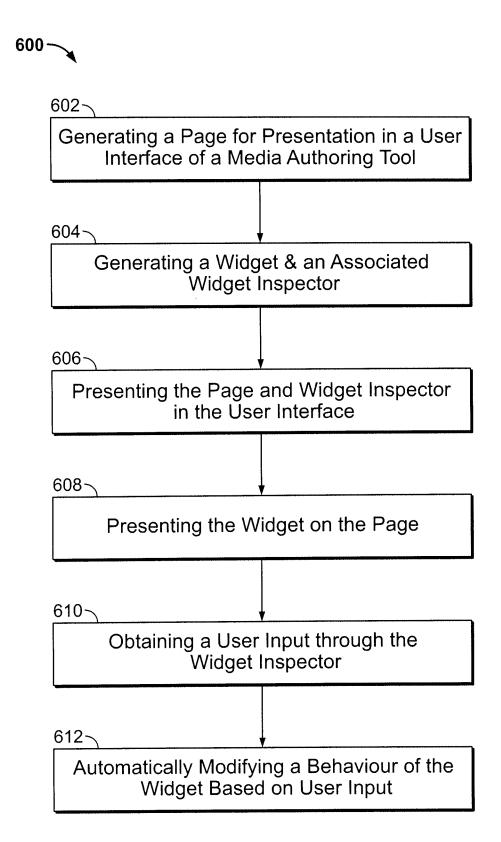


FIG. 6

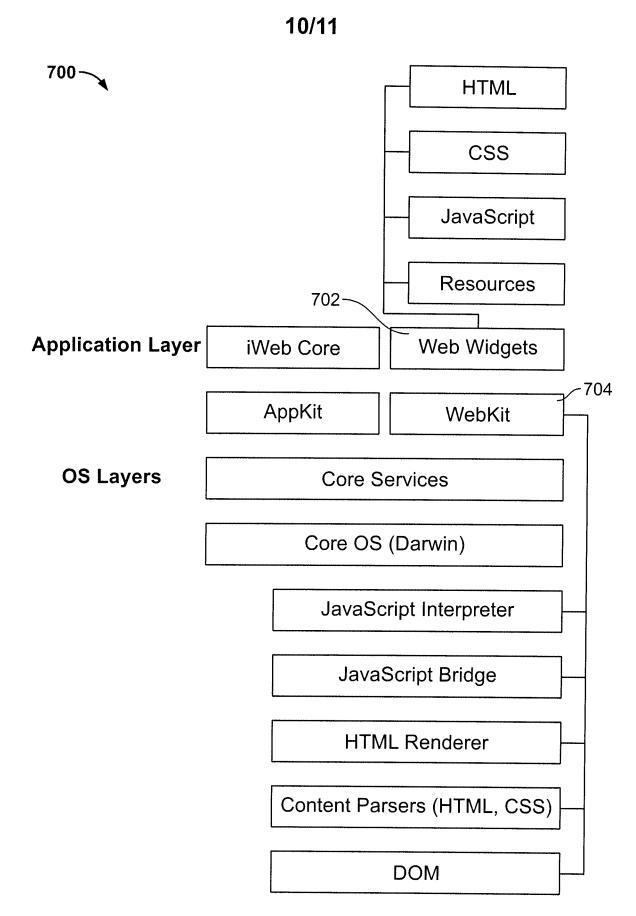


FIG. 7

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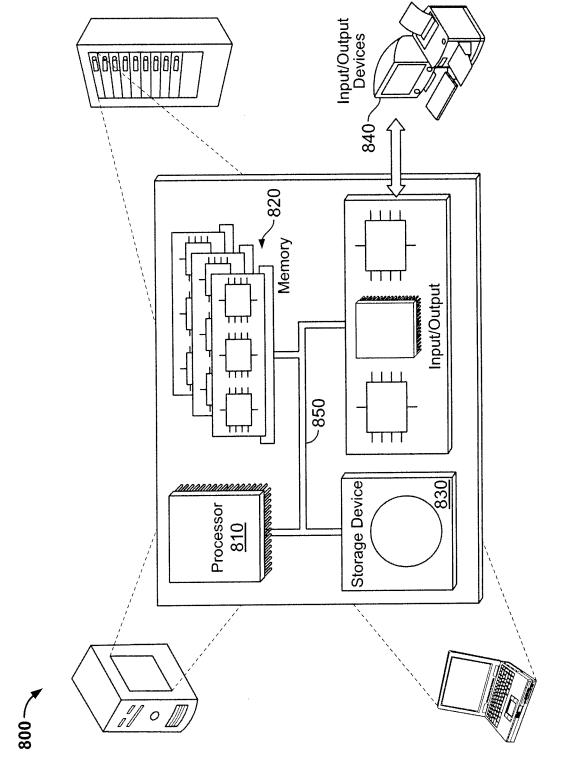


FIG. 8

INTERNATIONAL SEARCH REPORT

International application No PCT/US2008/071008

PCT/US2008/071008 A. CLASSIFICATION OF SUBJECT MATTER INV. G06F17/30 According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) G06F Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, INSPEC C. DOCUMENTS CONSIDERED TO BE RELEVANT Category* Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. γ BEIER B ET AL: "The bull's-eye: a 1 - 25framework for web application user interface design guidelines" PROCEEDINGS OF THE SIGCHI CONFERENCE ON HUMAN FACTORS IN COMPUTING SYSTEMS, [Online] vol. 5, no. 1, 5 April 2003 (2003-04-05), - 10 April 2003 (2003-04-10) pages 489-496, XP002501875 Ft. Lauderdale, Florida, USA ISBN: 1-58113-630-7 Retrieved from the Internet: URL: http://delivery.acm.org/10.1145/650000 /642697/p489-beier.pdf?key1=642697&key2=73 42635221&coll=GUIDE&dl=GUIDE&CFID=8673629& CFTOKEN=43840786> [retrieved on 2008-10-30] abstract section "Content & Structure of the Further documents are listed in the continuation of Box C. See patent family annex. Special categories of cited documents: .'Tr later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such docu-"O" document referring to an oral disclosure, use, exhibition or ments, such combination being obvious to a person skilled document published prior to the international filing date but later than the priority date claimed "&" document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report 30 October 2008 10/11/2008 Name and mailing address of the ISA/ Authorized officer European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31–70) 340–2040, Fax: (+31–70) 340–3016 Barieux, Marc

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	Guidelines", figure 3		
Υ	US 2006/005207 A1 (LOUCH JOHN O [US] ET AL) 5 January 2006 (2006-01-05) abstract paragraph [0054] paragraph [0104] - paragraph [0118];		1-25
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