

What is claimed is:

1. ~~A~~ ~~At least one~~ computer-readable storage medium ~~(116)~~ having computer-executable instructions ~~(118)~~ stored thereon which, ~~when executed by a computer,~~ causes ~~the computer~~ a client system to perform a method for providing high-fidelity rendering of document content with a viewer on ~~the~~ a client system ~~(102)~~, without installing a plug-in of the viewer for rendering the content on the client system, the method comprising steps performed by the client system:

detecting ~~(302)~~ whether the client system has the rendering plug-in already installed;

in response to detecting that the client system has the rendering plug-in already installed, selecting ~~(308)~~ a first high-fidelity format compatible with the plug-in for rendering the content;

in response to detecting that the client system does not have the rendering plug-in already installed, selecting ~~(312)~~ a second high-fidelity format for rendering the content on the client system without installing the plug-in on the client system;

requesting ~~(314)~~ preview of at least one document having a plurality of pages for rendering on the client system in the selected format; ~~and~~

receiving ~~(330)~~ ~~a~~ subsets ~~(326)~~ of the document pages in the selected format incrementally; and
displaying the subsets of document pages on the client system incrementally.

2. The storage medium of claim 1, wherein the ~~instructions for~~ selecting the second high-fidelity format includes instructions for selecting an image format.

3. The storage medium of claim 1, wherein the ~~instructions for~~ selecting the second high-fidelity format includes instructions for selecting a Portable Network Graphics (PNG) format.

4. The storage medium of claim 1, the method further comprising ~~instructions for steps performed by the client system of:~~ requesting at least one additional page of the document, wherein the at least one additional page is not ~~included~~ received in the subsets, and ~~further comprising instructions for~~ receiving at least the additional pages.

5. The storage medium of claim 1, ~~further comprising instructions for displaying the subset of document pages on the client system, and the method~~ further comprising step performed by the client of ~~instructions for~~ providing zoom functionality locally on the client system without round-trip message flow between the client system and a server.

6. The storage medium of claim 5, wherein the ~~instructions for~~ providing zoom functionality includes s ~~instructions for~~ applying zoom transforms using the viewer~~browser~~-supported scaling.

7. The storage medium of claim 5, wherein the ~~instructions for~~ providing zoom functionality includes s ~~instructions for~~ applying zoom transforms using an operation supported by the plug-in.

8. The storage medium of claim 1, the method further comprising step performed by the client of ~~instructions for~~ receiving position-based metadata computed for the content.

9. The storage medium of claim 8, the method further comprising step performed by the client of ~~instructions for~~ responding to user commands by referring to the position-based metadata.

10. ~~A At least one~~ computer-readable storage medium ~~(126)~~ having computer-executable instructions ~~(128)~~ stored thereon which, ~~when executed by a computer (108)~~, cause a server system ~~the computer~~ to perform a method for providing high-fidelity rendering of document content with a viewer on a client system ~~(102)~~, without installing a
5 plug-in of the viewer for rendering the content on the client system, the method comprising steps performed by the server system of:

receiving ~~(318)~~ a request ~~(316)~~ for at least one selected document ~~(134)~~ having a plurality of pages, wherein the request specifies one of at least two high-fidelity rendering formats supported by the viewer of the client system, wherein a first one of the rendering
10 formats is compatible with the plug-in of the viewer, and wherein a second one of the rendering formats is for rendering the content with the viewer of ~~on~~ the client system without installing the plug-in of the viewer on the client system;

formatting ~~(322)~~ ~~a~~ subsets of the pages in the specified rendering format incrementally;

15 sending ~~(324)~~ the subsets of pages formatted in the specified rendering format ~~(326)~~ to the client system for rendering incrementally;

receiving ~~(416)~~ a second request ~~(414)~~ for at least a further page ~~(420)~~ not sent ~~included~~ in the subsets of pages;

formatting ~~(328)~~ at least the further page in the specified rendering format; and

20 sending ~~(418)~~ at least the further page formatted in the specified rendering format to the client system for rendering.

11. The storage medium of claim 108, the method further comprising step performed by the server system of ~~instructions for~~ generating position-based metadata for
25 content included in the document.

12. The storage medium of claim 119, wherein the ~~instructions for~~ generating position-based metadata includes instructions ~~for~~ ordering paragraphs within the document.

30 13. The storage medium of claim 119, wherein the ~~instructions for~~ generating position-based metadata includes instructions ~~for~~ ordering table elements within the document.

14. The storage medium of claim [119](#), wherein the ~~instructions for~~ generating position-based metadata includes ~~instructions for~~ viewing a bounding rectangle for at least one text run within the document.

5 15. The storage medium of claim [119](#), wherein the ~~instructions for~~ generating position-based metadata includes ~~instructions for~~ viewing a bounding rectangle for at least one hyperlink within the document.

10 16. The storage medium of claim [119](#), [the method](#) further comprising [step performed by the server system of](#) ~~instructions for~~ sending the position-based metadata to the client system.

15 17. The storage medium of claim [108](#), [the method](#) further comprising [step performed by the server system of](#) ~~instructions for~~ performing composition on at least one text run occurring within the document.

18. ~~A At least one~~ computer-readable storage medium ~~(126)~~ having computer-executable instructions ~~(128)~~ stored thereon which, ~~when executed by a computer (108),~~ causes a server system ~~the computer~~ to perform a method for providing high-fidelity rendering of document content with a viewer ~~(130)~~ on a client system ~~(102)~~, without
5 installing a plug-in of the viewer for rendering the content on the client system, the method comprising steps performed by the server system of:

receiving ~~(812)~~, from the client system, a request ~~(806)~~ to search for at least one term ~~(808)~~ within a plurality of documents ~~(134)~~ uploaded to the ~~a~~ server system ~~(108)~~, wherein the request specifies one of at least two high-fidelity rendering formats ~~(810)~~
10 supported by the viewer of the client system, wherein a first one of the rendering formats is compatible with the plug-in of the viewer, and wherein a second one of the rendering formats is for rendering the content with the viewer of ~~on~~ the client system without installing the plug-in of the viewer on the client system;

searching ~~(814)~~ for the term in the documents;

15 in response to locating at least one occurrence of the term in at least one of the documents:

generating ~~(816)~~ a document preview in the specified rendering format, indicating at least the occurrence of the search term in the document;

generating search results ~~(820)~~ indicating where the search term occurs in
20 the documents; and

sending ~~(818)~~ the document preview and the search results to the client system.

19. The storage medium of claim 18, the method further comprising step
25 performed by the server system of ~~instructions for~~ sending to the client system position-based metadata computed for the at least one document.

20. The storage medium of claim 19, the method further comprising step
performed by the server system of ~~instructions for~~ referring to the metadata in responding
30 to at least one user command directed to the document preview.