

Claims

We claim:

1. A computer-implemented method for browsing content items, wherein the content items are divided into groups, and wherein a content item is represented by an image, comprising:

displaying on a display screen of a display device a plurality of images in a stack mode, wherein a group of content items is represented by a stack of partially-overlapping images, where an image for a first content item is at a top of the stack and oriented parallel to an edge of the display screen, and subsequent images in the stack are centered a random amount away from a center of the image for the first content item, and the subsequent images in the stack are rotated a random amount relative to the image for the first content item.

2. The method of claim 1, wherein the content items are divided into groups based on locations in which the content items are stored.

3. The method of claim 1, wherein the content items are divided into groups based on geo-location information associated with the content items.

4. The method of claim 1, wherein the content items are divided into groups based on timestamp information associated with the content items.

5. The method of claim 1, wherein a number of images in a stack is determined based on a number of content items in a group represented by the stack.

6. The method of claim 1, wherein content items in a group are ordered, and wherein a stack includes images of group content items that are within an interval of the order.
7. The method of claim 1, wherein a determination of which images to include in a stack is based on which group content items have been flagged.
8. The method of claim 1, wherein a determination of which images to include in a stack is based on which group content items have been viewed most often.
9. The method of claim 1, wherein a determination of which images to include in a stack is based on timestamp information associated with the group of content items.
- 10 ~~10.~~ ~~The method of claim 1, wherein an image in a stack is randomly rotated.~~
1011. The method of claim 1, further comprising:
receiving a user input of pressing down on thea stack for a threshold period of time; and
in response to the user input, animating positions of images in the stack so that the images spreads out from each other on the display screen.
1112. The method of claim 1, further comprising:
receiving a user input of pressing down on thea stack for a threshold period of time; and
in response to the user input, providing tactile feedback.
- 20 1213. The method of claim 1, further comprising:
receiving a user input of pressing down on thea stack for a threshold period of time; and

in response to the user input, entering a multi-select mode such that a single gesture is sufficient to select thea stack.

1314. The method of claim 1, wherein thea stack includes a label that describes geo-location information associated with the content items represented by the stack.

5 | 1415. The method of claim 1314, further comprising:

receiving a user input that indicates a stack label; and

in response to the user input:

determining which content items are associated with geo-location

information that satisfies the stack label; and

10 | displaying images representing the determined content items in a grid

mode, wherein the images are displayed in a grid of rows and

columns on the display screen.

1516. The method of claim 1415, wherein the user input comprises a single tap or click on an icon adjacent to the stack label.

15 | ~~17. A computer-implemented method for dividing content items into groups, wherein a content item is associated with geo location information and timestamp information, comprising:~~

~~identifying a current group of content items, a previous content item, and a current content item;~~

20 | ~~identifying a first timestamp associated with the previous content item and a second timestamp associated with the current content item;~~

determining whether a time difference between the first timestamp and the
second timestamp exceeds a threshold time amount;
responsive to the time difference not exceeding the threshold time amount,
adding the current content item to the current group; and
5 responsive to the time difference exceeding the threshold time amount:
identifying a first geo-location associated with the previous content item
and a second geo-location associated with the current content
item;
determining whether a geographical distance between the first geo-
10 location and the second geo-location exceeds a threshold distance
amount; and
responsive to the geographical distance exceeding the threshold distance
amount, creating a new group that includes the current content
item.
15 18. The method of claim 17, further comprising:
responsive to the geographical distance not exceeding the threshold distance
amount:
determining whether the current group should be split into two groups;
responsive to determining that the current group should be split into two
20 groups:
removing one or more content items from the current group; and
creating a new group that includes the removed content items.

19. — ~~The method of claim 18, wherein determining whether the current group should be split into two groups is performed based on how many content items are in the current group.~~

20. — ~~The method of claim 19, wherein determining whether the current group should be split into two groups is further performed based on timestamp information associated with a content item that is in the current group.~~

21. — ~~The method of claim 18, further comprising:~~

~~determining whether the current group should be combined with a previous group;~~

~~responsive to determining that the current group should be combined with the previous group;~~

~~removing all of the content items from the current group; and~~

~~adding the removed content items to the previous group.~~

22. — ~~The method of claim 21, wherein determining whether the current group should be combined with the previous group is performed based on how many content items are in the current group and how many content items are in the previous group.~~

23. — ~~The method of claim 22, wherein determining whether the current group should be combined with the previous group is performed based on geo-location information associated with a content item that is in the current group and geo-location information associated with a content item that is in the previous group.~~

24. ~~The method of claim 17, wherein a content item is a static image, and wherein geo-location information associated with the content item comprises a geographical location shown in the static image.~~

25. ~~The method of claim 17, wherein a content item is a static image, and wherein timestamp information associated with the content item comprises a time at which the static image was created.~~

26. ~~The method of claim 17, wherein a group represents an event.~~

27. ~~A computer-implemented method for dividing content items into groups, wherein a content item is associated with geo-location information and timestamp information, comprising:~~

~~identifying a current group of content items, a previous content item, and a current content item;~~

~~identifying a first geo-location associated with the previous content item and a second geo-location associated with the current content item;~~

~~determining whether a geographical distance between the first geo-location and the second geo-location exceeds a threshold distance amount;~~

~~responsive to the geographical distance exceeding the threshold distance amount, creating a new group that includes the current content item; and~~

~~responsive to the geographical distance not exceeding the threshold time amount;~~

~~identifying a first timestamp associated with the previous content item and a second timestamp associated with the current content item;~~

~~determining whether a time difference between the first timestamp and
the second timestamp exceeds a threshold time amount; and
responsive to the time difference exceeding the threshold time amount,
creating a new group that includes the current content item.~~

5 28. — ~~The method of claim 27, further comprising:~~

~~responsive to the time difference not exceeding the threshold time amount,
adding the current content item to the current group.~~

29. — ~~A computer implemented method for dividing content items into groups,
wherein a content item is associated with geo-location information and timestamp
10 information, comprising:~~

~~identifying a current group of content items, a previous content item, and a
current content item;~~

~~identifying a first timestamp associated with the previous content item and a
second timestamp associated with the current content item;~~

15 ~~identifying a first geo-location associated with the previous content item and a
second geo-location associated with the current content item;~~

~~determining whether a time difference between the first timestamp and the
second timestamp exceeds a threshold time amount;~~

20 ~~determining whether a geographical distance between the first geo-location and
the second geo-location exceeds a threshold distance amount; and~~

~~when the time difference exceeds the threshold time amount or the geographical distance exceeds the threshold distance amount, creating a new group that includes the current content item.~~

30. ~~The method of claim 29, further comprising:~~

~~when the time difference does not exceed the threshold time amount and the geographical distance does not exceed the threshold distance amount, adding the current content item to the current group.~~

1634. A computer program product for browsing content items, wherein the content items are divided into groups, and wherein a content item is represented by an image, the computer program product comprising a machine-readable medium storing computer program code for performing a method, the method comprising:

displaying on a display screen of a display device a plurality of images in a stack mode, wherein a group of content items is represented by a stack of partially-overlapping images, where an image for a first content item is at a top of the stack and oriented parallel to an edge of the display screen, and subsequent images in the stack are centered a random amount away from a center of the image for the first content item and the subsequent images in the stack are rotated a random amount relative to the image for the first content item.

32. ~~A computer program product for dividing content items into groups, wherein a content item is associated with geo-location information and timestamp information, the~~

computer program product comprising a machine-readable medium storing computer program code for performing a method, the method comprising:

identifying a current group of content items, a previous content item, and a current content item;

identifying a first timestamp associated with the previous content item and a second timestamp associated with the current content item;

determining whether a time difference between the first timestamp and the second timestamp exceeds a threshold time amount;

responsive to the time difference not exceeding the threshold time amount, adding the current content item to the current group; and

responsive to the time difference exceeding the threshold time amount:

identifying a first geo-location associated with the previous content item and a second geo-location associated with the current content item;

determining whether a geographical distance between the first geo-location and the second geo-location exceeds a threshold distance amount; and

responsive to the geographical distance exceeding the threshold distance amount, creating a new group that includes the current content item.

33. A computer program product for dividing content items into groups, wherein a content item is associated with geo-location information and timestamp information, the

~~computer program product comprising a machine-readable medium storing computer program code for performing a method, the method comprising:~~

~~identifying a current group of content items, a previous content item, and a current content item;~~

~~identifying a first geo-location associated with the previous content item and a second geo-location associated with the current content item;~~

~~determining whether a geographical distance between the first geo-location and the second geo-location exceeds a threshold distance amount;~~

~~responsive to the geographical distance exceeding the threshold distance amount, creating a new group that includes the current content item; and~~

~~responsive to the geographical distance not exceeding the threshold time amount:~~

~~identifying a first timestamp associated with the previous content item and a second timestamp associated with the current content item;~~

~~determining whether a time difference between the first timestamp and the second timestamp exceeds a threshold time amount; and~~

~~responsive to the time difference exceeding the threshold time amount, creating a new group that includes the current content item.~~

34. — A computer program product for dividing content items into groups, wherein a content item is associated with geo-location information and timestamp information, the computer program product comprising a machine-readable medium storing computer program code for performing a method, the method comprising:

identifying a current group of content items, a previous content item, and a
current content item;

identifying a first timestamp associated with the previous content item and a
second timestamp associated with the current content item;

5 identifying a first geo-location associated with the previous content item and a
second geo-location associated with the current content item;

determining whether a time difference between the first timestamp and the
second timestamp exceeds a threshold time amount;

determining whether a geographical distance between the first geo-location and
10 the second geo-location exceeds a threshold distance amount; and

when the time difference exceeds the threshold time amount or the geographical
distance exceeds the threshold distance amount, creating a new group
that includes the current content item.

35. A computer-implemented method for generating a background image that is
15 displayed while foreground images are being scrolled, comprising:

in response to a first plurality of foreground images being displayed, selecting a
first foreground image from the first plurality of foreground images;

generating a first background image based on the first foreground image;

displaying a first portion of the first background image;

20 displaying a remaining portion of the first background image with an alpha ramp
that transitions from opaque to transparent;

in response to a second plurality of foreground images being displayed, selecting
a second foreground image from the second plurality of foreground
images;
generating a second background image based on the second foreground image;
5 displaying a cross-fading animation that transitions from the remaining portion
of the first background image to a first portion of the second background
image; and
displaying the first portion of the second background image.

36. — The method of claim 35, wherein generating the first background image based
10 on the first foreground image comprises applying an image filter to the first foreground
image.

37. — The method of claim 36, wherein the image filter is a box blur.

38. — The method of claim 35, wherein generating the first background image based
on the first foreground image comprises darkening the first foreground image.

15 39. — The method of claim 35, wherein generating the first background image based
on the first foreground image comprises zooming in to the first foreground image and
cropping the zoomed image.

40. — The method of claim 35, wherein the first portion of the first background image
comprises a majority of the first background image.

20 41. — The method of claim 35, wherein selecting the first foreground image from the
first plurality of foreground images comprises selecting a foreground image that is
located in an upper-left area of the plurality of foreground images being displayed.

42. — ~~The method of claim 35, wherein selecting the first foreground image from the first plurality of foreground images comprises selecting a foreground image that is located in a central area of the plurality of foreground images being displayed.~~

43. — ~~A computer program product for generating a background image that is displayed while foreground images are being scrolled, the computer program product comprising a machine-readable medium storing computer program code for performing a method, the method comprising:~~

~~in response to a first plurality of foreground images being displayed, selecting a~~

~~first foreground image from the first plurality of foreground images;~~

~~generating a first background image based on the first foreground image;~~

~~displaying a first portion of the first background image;~~

~~displaying a remaining portion of the first background image with an alpha ramp that transitions from opaque to transparent;~~

~~in response to a second plurality of foreground images being displayed, selecting~~

~~a second foreground image from the second plurality of foreground images;~~

~~generating a second background image based on the second foreground image;~~

~~displaying a cross-fading animation that transitions from the remaining portion of the first background image to a first portion of the second background~~

~~image; and~~

~~displaying the first portion of the second background image.~~

1744. A computer-implemented method for browsing a plurality of content items, wherein a content item is represented by an image, comprising:

displaying on a display screen of a display device a plurality of images in a stack mode, wherein the images are divided into groups, and wherein a group is represented by a stack of partially-overlapping images, where an image for a first content item is at a top of the stack and oriented parallel to an edge of the display screen, and subsequent images in the stack are centered a random amount away from a center of the image for the first content item and subsequent images in the stack are rotated a random amount relative to the image for the first content item;

receiving a first user input that indicates a first stack that represents a first group of images; and

in response to the first user input, displaying the first group of images in a grid mode, wherein the images in the first group are displayed in a grid of one or more rows and one or more columns.

1845. The method of claim 1744, wherein the first user input comprises a single tap or click on the first stack.

1946. The method of claim 1744, wherein displaying the first group of images in the grid mode comprises animating a position of an image from the stack of images so that the image moves from within the stack to within the grid of rows and columns.

2047. The method of claim 1744, further comprising:

receiving a second user input that indicates a first image; and

in response to the second user input, presenting a content item represented by the first image.

2148. The method of claim 2047, wherein the second user input comprises a single tap or click on the first image.

5 | 2249. The method of claim 2047, wherein the content item is a static image.

2350. The method of claim 2047, wherein the content item is a video.

2451. The method of claim 1744, further comprising:

receiving a second user input that comprises a tilting of a device that is displaying the first group of images in the grid mode; and

10 | in response to the second user input, displaying the grid of rows and columns with perspective distortion.

2552. The method of claim 1744, further comprising:

receiving a second user input; and

in response to the second user input, animating a position of the grid of rows and

15 | columns so that the grid scrolls.

2653. The method of claim 2552, wherein the second user input comprises a swipe gesture or a flick gesture.

2754. The method of claim 2552, further comprising providing user feedback when an edge of the grid has been reached.

20 | 2855. The method of claim 2754, wherein the user feedback comprises displaying the grid of rows and columns with perspective distortion.

2956. The method of claim 2754, wherein the user feedback comprises animating the grid of rows and columns so that the grid bounces off an edge of a display screen that is displaying the grid.

3057. The method of claim 2754, wherein the user feedback is tactile.

5 ~~58. A computer-implemented method for browsing content items, wherein a content item is represented by an image, comprising:~~

~~displaying a plurality of images;~~

~~receiving a user input that indicates scrolling;~~

~~in response to the user input, determining whether a last image is being~~
10 ~~displayed; and~~

~~in response to the last image being displayed, displaying the last image with~~
~~perspective distortion.~~

~~59. The method of claim 58, further comprising in response to the last image being displayed, animating the last image so that the last image bounces off an edge of a~~
15 ~~display screen that is displaying the last image.~~

~~60. The method of claim 58, further comprising in response to the last image being displayed, providing tactile feedback.~~

~~61. A computer-implemented method for browsing content items that are ordered according to a characteristic, wherein a content item is represented by an image,~~
20 ~~comprising:~~

~~displaying a plurality of images in a grid mode, wherein the images are
displayed in a grid of rows and columns, and wherein the content items
represented by the images have a first value for the characteristic;
displaying a second value for the characteristic;
receiving user input that indicates the second value; and
in response to the user input, animating the grid of rows and columns so that the
grid scrolls until the grid displays images that represent content items
that have the second value for the characteristic.~~

~~62. The method of claim 61, wherein the images representing content items having
the second value for the characteristic are not displayed at the time the second value is
displayed.~~

~~3163. A computer program product for browsing a plurality of content items, wherein
a content item is represented by an image, the computer program product comprising a
machine-readable medium storing computer program code for performing a method, the
method comprising:~~

~~displaying on a display screen of a display device a plurality of images in a stack
mode, wherein the images are divided into groups, and wherein a group
is represented by a stack of partially-overlapping images, where an
image for a first content item is at a top of the stack and oriented parallel
to an edge of the display screen, and subsequent images in the stack are
centered a random amount away from a center of the image for the first~~

content item, and the subsequent images in the stack are rotated a
random amount relative to the image for the first content item;

receiving a first user input that indicates a first stack that represents a first group
of images; and

5 in response to the first user input, displaying the first group of images in a grid
mode, wherein the images in the first group are displayed in a grid of one
or more rows and one or more columns.

64. ~~A computer program product for browsing content items, wherein a content item~~
~~is represented by an image, the computer program product comprising a machine-~~
10 ~~readable medium storing computer program code for performing a method, the method~~
~~comprising:~~

~~displaying a plurality of images;~~

~~receiving a user input that indicates scrolling;~~

~~in response to the user input, determining whether a last image is being~~
15 ~~displayed; and~~

~~in response to the last image being displayed, displaying the last image with~~
~~perspective distortion.~~

65. ~~A computer program product for browsing content items that are ordered~~
~~according to a characteristic, wherein a content item is represented by an image, the~~
20 ~~computer program product comprising a machine-readable medium storing computer~~
~~program code for performing a method, the method comprising:~~

5

~~displaying a plurality of images in a grid mode, wherein the images are
displayed in a grid of rows and columns, and wherein the content items
represented by the images have a first value for the characteristic;
displaying a second value for the characteristic;
receiving user input that indicates the second value; and
in response to the user input, animating the grid of rows and columns so that the
grid scrolls until the grid displays images that represent content items
that have the second value for the characteristic.~~