

Claims

1. A method for displaying a display object according to real-time information, comprising:

acquiring location information of the display object, the location information corresponding to real-time information acquired in a previous period and real-time information acquired in a current period;

determining a starting point according to the location information acquired in the previous period, and determining a finishing point according to the location information acquired in the current period; and

displaying a display object as sliding between the starting point and the finishing point, comprising:

determining a sliding track of the display object between the starting point and the finishing point, and selecting N spread location points on the sliding track, N being a natural number; and

displaying the display object at the starting point, the N spread location points, and the finishing point sequentially for a single-point display duration to achieve a sliding effect,

wherein a value of N and the single-point display duration are determined based on a sliding distance of the display object in the current period.

2. The method according to claim 1, further comprising:

if a sliding display in the previous period has not ended when the current period begins, changing the starting point to a display location of the display object when the current period begins; and

cancelling an uncompleted portion of the sliding display in the previous period.

3. The method according to claim 1 or 2, further comprising:

displaying, at the location information corresponding to the real-time information acquired in the current period, the display object, if a distance between the starting point and the finishing point is shorter than a predetermined threshold; and

ceasing performing the sliding display in the current period.

4. The method according to claim 3, wherein the selecting the N spread location

points on the sliding track comprises: selecting the N spread location points on the sliding track in an evenly, accelerated, or decelerated spreading manner.

5. The method according to claim 1, wherein the display object comprises a real-time image and/or a real-time video.

6. The method according to claim 1, wherein:

the display object comprises a user's real-time head image;

the location information corresponding to the real-time information comprises: an X-axis ratio coordinate corresponding to a rotation angle of a front of the user's real-time head image in a horizontal direction and a Y-axis ratio coordinate corresponding to a rotation angle of the front of the user's real-time head image in a vertical direction;

the determining the starting point according to the location information acquired in the previous period, and determining the finishing point according to the location information acquired in the current period comprises: converting, according to a width and a length of a screen, a X-axis ratio coordinate and a Y-axis ratio coordinate of the previous period to location coordinates of the starting point on the screen, and converting, according to the width and the length of the screen, a X-axis ratio coordinate and a Y-axis ratio coordinate of the current period to location coordinates of the finishing point on the screen.

7. The method according to claim 6, further comprising: performing verification on the user's real-time head image when the display object moves to a predetermined marked location on the screen, and completing the user's login when the verification is successful.

8. An apparatus for displaying a display object according to real-time information, comprising:

a location information acquiring unit configured to acquire location information of the display object, the location information corresponding to real-time information acquired in a previous period and real-time information acquired in a current period;

a starting and finishing points determining unit configured to determine a starting point according to the location information acquired in the previous period, and determine a

finishing point according to the location information acquired in the current period; and

a sliding display unit configured to perform a sliding display to display a display object as sliding between the starting point and the finishing point-, comprising:

determining a sliding track of the display object between the starting point and the finishing point, and selecting N spread location points on the sliding track, N being a natural number; and

displaying the display object at the starting point, the N spread location points, and the finishing point sequentially for a single-point display duration to achieve a sliding effect,

wherein a value of N and the single-point display duration are determined based on a sliding distance of the display object in the current period.

9. The apparatus according to claim 8, further comprising: a starting point changing unit configured to:

change, in the case where a sliding display in the previous period has not ended when the current period begins, the starting point to a display location of the display object when the current period begins; and

cancel an uncompleted portion of the sliding display in the previous period.

10. The apparatus according to claim 8 or 9, further comprising: a sliding cancelling unit configured to display, at the location information corresponding to the real-time information acquired in the current period, the display object, if a distance between the starting point and the finishing point is shorter than a predetermined threshold, and cease perform a sliding display in the current period.

11. The apparatus according to claim 8, wherein the sliding display unit is configured to select the N spread location points on the sliding track in an evenly, accelerated, or decelerated spreading manner.

12. The apparatus according to claim 8, wherein the display object comprises a real-time image and/or a real-time video.

13. The apparatus according to claim 8, wherein:

the display object comprises a user's real-time head image;

the location information corresponding to the real-time information comprises: an X-axis ratio coordinate corresponding to a rotation angle of a front of the user's real-time head image in a horizontal direction and a Y-axis ratio coordinate corresponding to a rotation angle of the front of the user's real-time head image in a vertical direction; and

the starting and finishing points determining unit is configured to convert, according to a width and a length of a screen, a X-axis ratio coordinate and a Y-axis ratio coordinate of the previous period to location coordinates of the starting point on the screen, and convert, according to the width and the length of the screen, a X-axis ratio coordinate and a Y-axis ratio coordinate of the current period to location coordinates of the finishing point on the screen.

14. The apparatus according to claim 13, further comprising: a verification and login unit configured to perform verification on the user's real-time head image when the display object moves to a predetermined marked location on the screen, and to complete the user's login when the verification is successful.

15. The method according to claim 1, wherein the value of N varies directly with the sliding distance and inversely with the single-point display duration.

16. The method according to claim 3, wherein the predetermined threshold is determined based on an impact that a self-learning process of a machine learning algorithm has on the location information corresponding to the real-time information acquired in the current period.

17. The method according to claim 7, further comprising, determining a relative position of the user's real-time head image based on a degree of yaw and pitch of the user's head.

18. The method according to claim 17, wherein, the determining the relative position of the user's real-time head image comprises:

in response to the user's real-time head image being a front head image, positioning

the user's real-time head image in a center of the screen; and

in response to the user's real-time head image being a left side, positioning the user's real-time head image in a center of a left screen border of the screen.