[0146] For example, when portable electronic device **400** is disposed in horizontal orientation **810**, it may be displaying a map on display device **406**. However, in response to detecting that portable electronic device **400** is now disposed in vertical orientation **820**, portable electronic device **400** may automatically display a picture of an object (e.g., a building, terrain feature, etc.) at which portable electronic device **400** is pointing. This is possible by using position determining component **420** to determine the present geographic position of portable electronic device **400**, or by a combination of geographic position and vector data as described above with reference to FIG. **7**. It is noted that the selection of the second instance of data to be displayed may be a user determined parameter, or may be dependant upon what first instance of data is currently being displayed.

[0147] In the embodiment of FIG. **6**, navigation controller **750** receives azimuth data indicating a direction which portable electronic device **400** is pointed via azimuth signal receiver **770**. Using this information, as well as the current geographic position of portable electronic device **400**, object identification component **780** can determine an object (e.g., a manmade object, terrain feature, etc.) at which portable electronic device **400** is pointed. In one embodiment, object identification component **780** comprises a locally stored database (e.g., either locally stored in volatile memory **403**, or data storage device **405**) which facilitates determining an object at which portable electronic device **400** is pointed. After the object has been identified, data accessor **790** may access a second instance of data about that object. For example, if object identification component **780** determines that portable electronic device **400** is pointed at the Statue of Liberty, data accessor **790** may access a media file, (e.g., pictures, audio files, or multimedia files) with additional data about the Statue of Liberty.

[0148] In another embodiment, object identification component **489** may be a remotely located database which is accessed via wireless communications component **430**. For example, portable electronic device **400** can send its current geographic position and azimuth to a remote computer system (not shown) which accesses the database that determines the object at which portable electronic device **400** is pointed, and sends an image file of that object back to portable electronic device **400** for displaying. In embodiments of the present invention, determination of which instance of data to display based upon the orientation of portable electronic device **400** is made by display controller **720** in response to a parameter stored, for example, in volatile memory **403**, non-volatile memory **404**, or data storage device **405**. It is appreciated that the parameter which states the data to display depending upon the orientation of portable electronic device **400** may be a default setting, or a user determined parameter in embodiments of the present invention. It is appreciated that the second instance of data about an object may be remotely accessed as well using wireless communication component **430**.

[0149] FIG. **9** is a flowchart of a method for displaying data on a portable electronic device in accordance with embodiments of the present invention. In step **910** of FIG. **9**, a first portion of accessed data is displayed on an electronic device. With reference again to FIG. **6**B, first portion **620***a* of data **620** is displayed. In embodiments of the present invention, first portion **620***a* is displayed due to constraints upon the viewable area which may be imposed by the screen size of the display device used by portable electronic device **400**.

[0150] In step **920** of FIG. **9**, a movement of the portable electronic device from a first portion to a second position is detected utilizing a motion detector responsive to motion in at least a single direction. As described above, embodiments of the present invention use a motion detecting component (e.g., **425**) to detect a change in the motion of portable electronic device **400**. In embodiments of the present invention, motion detecting component **425** is an accelerometer operable for determining motion of portable electronic device **400** in at least one plane of motion which are conventionally defined as an X, Y, and Z axis (e.g., **605***a*, **605***b*, and **605***c* of FIG. **6**A). Thus, when portable electronic device **400** is moved from a first position (e.g., **601** of FIG. **6**A) to a second position (e.g., **602** of FIG. **6**A), motion detecting component **425** determines a vector between those two positions.

[0151] In step **930** of FIG. **9**, a second portion of the accessed data is automatically displayed in response to detecting the movement. As described above with reference to FIG. **6**B, in response to determining the vector described above (e.g., **605** of FIG. **6**A), correlator **720** determines a vector (e.g., **330** of FIG. **6**B) which originates at first portion **620***a*. The direction of vector **330** is representative of the vector (e.g., **605**) that is created when portable electronic device **400** is moved from first position **601** to second position **602**. The magnitude of vector **330** is scaled to be a fraction of the magnitude of vector **605**. In so doing, when portable electronic device is moved to second position **602**, display device **406** displays second portion **620***b* of data **620**.

[0152] Embodiments of the present invention, an accelerometer based extended display, are thus described. While the present invention has been described in particular embodiments, it should be appreciated that the present invention should not be construed as limited by such embodiments, but rather construed according to the below claims.

What is claimed is:

1. A method for displaying data on a portable electronic device, said method comprising:
- displaying a first portion of accessed data on said portable electronic device;
- detecting a movement of said portable electronic device from a first position to a second position utilizing a motion detector responsive to motion in at least a single direction;
- automatically displaying a second portion of the accessed data in response to detecting said movement.

2. The method as recited in claim **1** wherein said detecting further comprises:
- utilizing a motion sensing device which is removably coupleable with said portable electronic device.

3. The method as recited in claim **1** wherein said utilizing comprises utilizing an accelerometer to detect said movement

4. The method as recited in claim **3** wherein said detecting further comprises:
- determining a vector between said first position of said portable electronic device and said second position of said portable electronic device; and
- determining said second portion of the accessed data based upon said determining of said vector.

5. The method as recited in claim **4** further comprising:
- correlating said first position with said first portion of the accessed data; and
- determining a second vector from said first portion of the accessed data which correlates said second position with said second portion of the accessed data.