

a result group including one or more pictures. A graphic of a person can represent a result group including contact information. These labels or icons allows users to see the result group that will be displayed if the user pivots right or left. For example, for the first pivot control **602**, a right pivot can cause the result groups to shift to the left. The result of the right shift can be seen in a second pivot control **604**. Here, the "People" result group has been shifted to the left and is no longer the current result group. The current result group has been updated to the result group adjacent and to the right of the previous result group, here the "Images" result group.

[0054] The pivot control or other navigation controls can be displayed utilizing a variety of schemes or models. For example, one or more icons or graphic images can be used either in addition to, or instead of text labels. Graphic images and icons are illustrated herein using line drawings for simplicity; however, pictures or other graphic images can be used throughout the display space.

[0055] Pivot controls or navigation controls can also include notifications or alerts. A notification or alert, as used herein, can indicate the presence or update of content. For example, in the second pivot control **604** the number eight is included within parentheses in the text label for the current result group. This parenthetical can indicate that there are eight total results within the result group. In addition, text notifications such as the exemplary parenthetical, text color, font, background or other visual cues can be utilized to alert users to changes in result groups or results. For example, the background for result groups that contain results can be set to a different color than those that contain no results, allowing the user to determine at a glance which result groups contain results associated with the input. In the third pivot control **606**, the background for the icons representing mail and music are updated to reflect the existence of results within those result groups.

[0056] The aforementioned systems have been described with respect to interaction between several components. It should be appreciated that such systems and components can include those components or sub-components specified therein, some of the specified components or sub-components, and/or additional components. Sub-components could also be implemented as components communicatively coupled to other components rather than included within parent components. Additionally, it should be noted that one or more components may be combined into a single component providing aggregate functionality or divided into several sub-components. The components may also interact with one or more other components not specifically described herein but known by those of skill in the art.

[0057] Furthermore, as will be appreciated various portions of the disclosed systems above and methods below may include or consist of artificial intelligence or knowledge or rule based components, sub-components, processes, means, methodologies, or mechanisms (e.g., support vector machines, neural networks, expert systems, Bayesian belief networks, fuzzy logic, data fusion engines, classifiers . . . ). Such components, inter alia, can automate certain mechanisms or processes performed thereby to make portions of the systems and methods more adaptive as well as efficient and intelligent. For example, the search request component can make inferences regarding the input and/or correspond-

ing characters to utilize in generating search requests. In addition, the search request component and display component can utilize the context to make inferences regarding the type or search results to request and/or display.

[0058] In view of the exemplary systems described supra, methodologies that may be implemented in accordance with the disclosed subject matter will be better appreciated with reference to the flowcharts of FIGS. 7-10. While for purposes of simplicity of explanation, the methodologies are shown and described as a series of blocks, it is to be understood and appreciated that the claimed subject matter is not limited by the order of the blocks, as some blocks may occur in different orders and/or concurrently with other blocks from what is depicted and described herein. Moreover, not all illustrated blocks may be required to implement the methodologies described hereinafter.

[0059] Additionally, it should be further appreciated that the methodologies disclosed hereinafter and throughout this specification are capable of being stored on an article of manufacture to facilitate transporting and transferring such methodologies to computers. The term article of manufacture, as used, is intended to encompass a computer program accessible from any computer-readable device, carrier, or media.

[0060] Referring now to FIG. 7, a methodology for searching available content and providing the search results to a user is illustrated. At reference numeral **702**, search input can be received. Input can include user input such as pressing of buttons on a keypad, verbal direction via a microphone or any other method of input. Input can include search terms or criteria, such as alphanumeric strings. At reference numeral **704**, the context can be determined. Context can include the state of the mobile device prior to the initiation of the search. The context can be used to determine the search results to be provided in the display screen. For instance, if a data item is selected, the search can be limited to the type of the selected item. For example, if an email message is selected and a search is initiated, the search can be limited to email messages.

[0061] One or more search requests can be generated at reference numeral **706** based upon user input. Separate search requests can be generated for possible interpretations of the user input. For example, as discussed above, certain mobile devices such as mobile phones can have limited keypads, in which the numbered keypad can be mapped to an alphabet. For example, if the user input consists of the number "2", a separate search can be generated for "A," "B" "C" and "2". This can also apply to other languages and alphabets. Separate search requests can be generated for each type of result desired. For instance, separate search requests can be generated for messages, contacts, music files, documents and the like. Alternatively, as discussed above, search requests can be limited based upon context to avoid excessive delays in providing content to users.

[0062] At reference numeral **708**, the results of the search query or search queries can be received and assembled. Multiple search results can be received at one time. Alternatively, results can be received separately based upon type of result. The results of the one or more search queries can be organized, grouped and assembled prior to display. At reference numeral **710**, the results can be rendered to the display screen based upon the results and user context.