Firefox OS

Text selection

Version 2.2 [2013/ 11/ 11]
Most recent spec available at - [Link to folder on box.com]
Questions? E-mail the author or firefoxos-ux@mozilla.com

Key flow

1. Cursor positioning
2. Text selection
3. Import contact names to hint texts database
4. Add new words to database

Release Notes

v1.0	Oct, 14, 2013	Carrie Wang	2 approaches for text selection
v2.0	Oct, 21, 2013	Carrie Wang	A reivised version for cursor position and text selection
v2.1	Noc, 04, 2013	Mike Tsai	Change previous/next arrow behavior (p.8/p.13 blue texts).
v2.2	Noc, 11, 2013	Carrie Wang	Add proposal 2 for Cursor positioning in text selection mode. Fix the page "Cursor movement in URL field".

UX PROPOSAL

Cursor positioning

Cursor positioning (the utility list)

1. [Candidate list]

2. [Utility list]
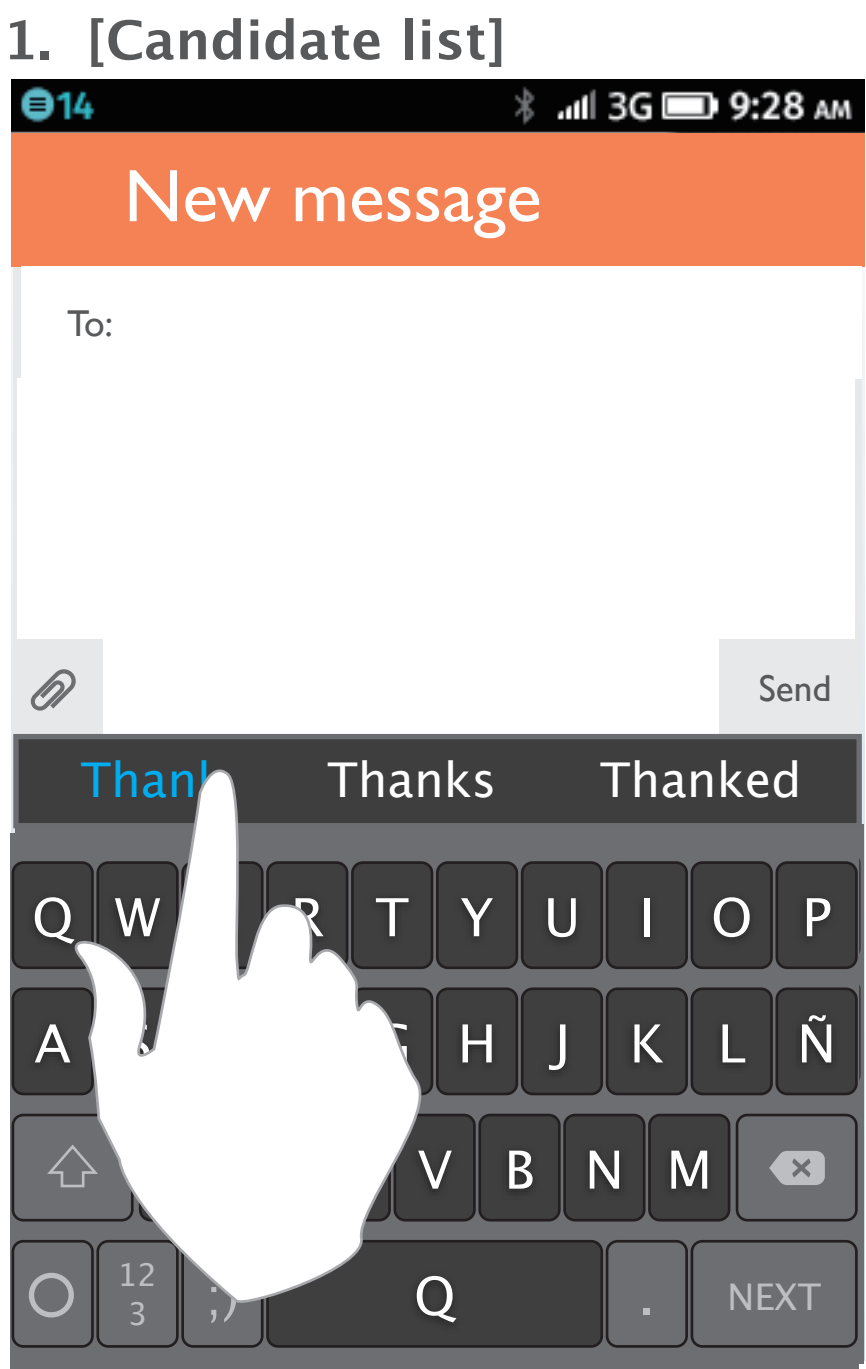
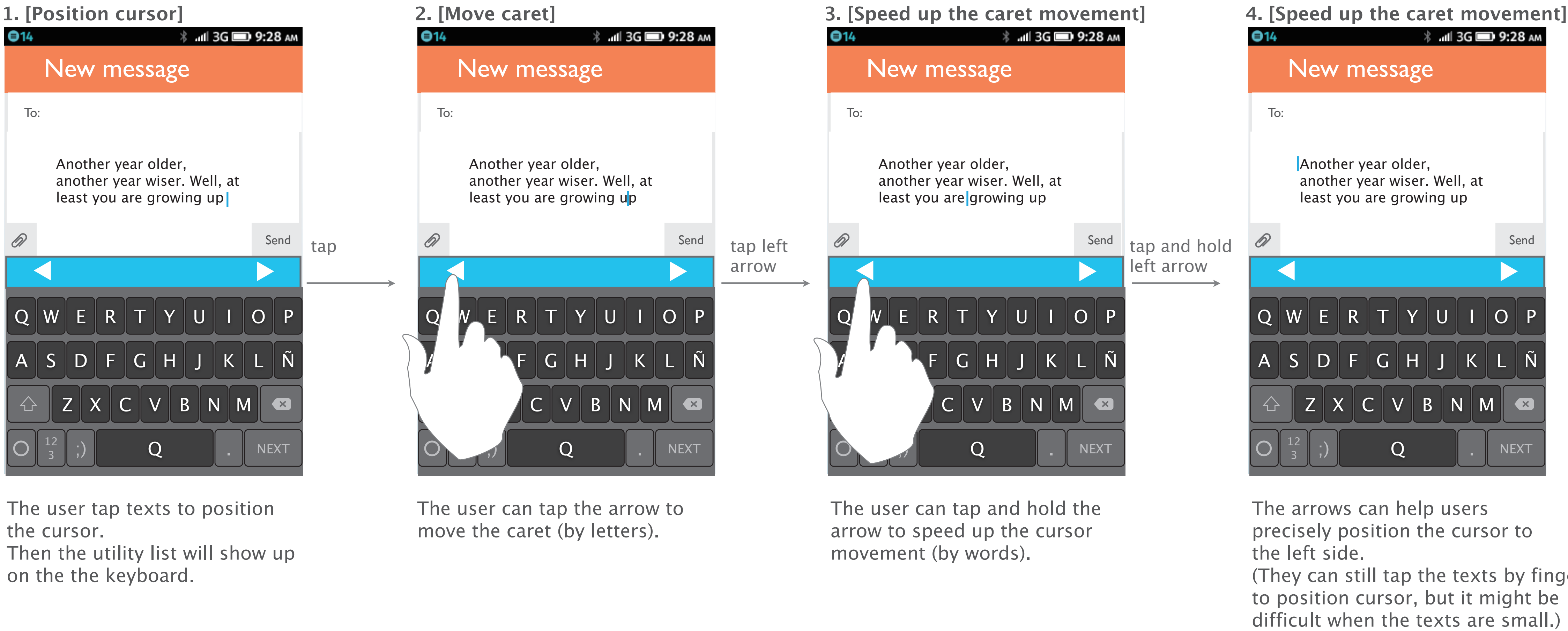tap spacekey or select from candidates or reposition the cursor
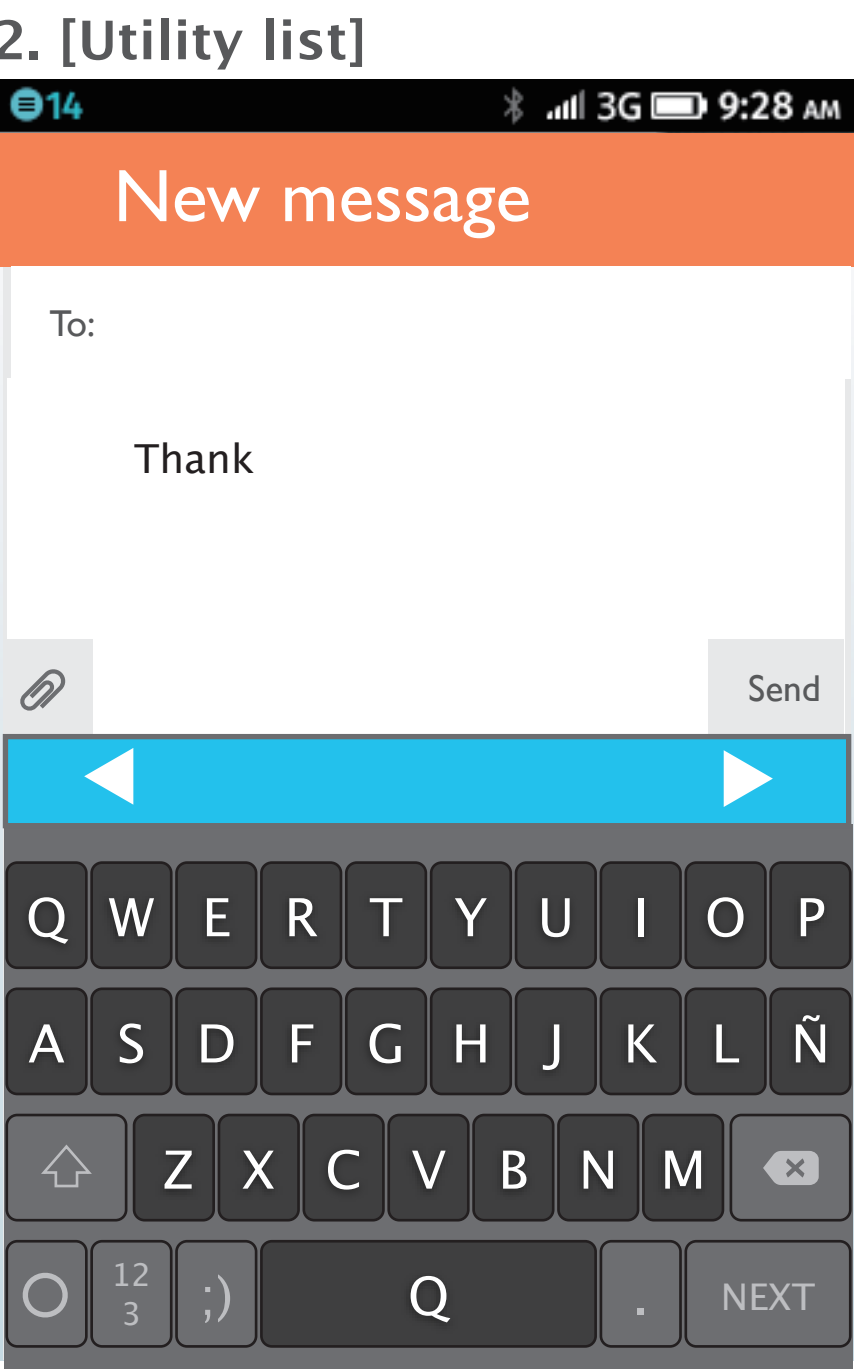
The candidate list shows up while typing.

The user can tap spacekey or the candidates for auto-selection.

He can also tap the texts to reposition the cursor for typo correction.

After selecting the candidates or repositioning the cursor, the candidate list will be replaced by utility list which includes left and right arrows for precise cursor movement.

Cursor positioning

1. [Position cursor]

The user tap texts to position the cursor.
Then the utility list will show up on the the keyboard.

tap →

2. [Move caret]

The user can tap the arrow to move the caret (by letters).

tap left arrow →

3. [Speed up the caret movement]

The user can tap and hold the arrow to speed up the cursor movement (by words).

tap and hold left arrow →

4. [Speed up the caret movement]

The arrows can help users precisely position the cursor to the left side.
(They can still tap the texts by finger to position cursor, but it might be difficult when the texts are small.)

Cursor positioning (in text selection mode) Proposal 1:

Highlight only one word a time

1. [Select in entry field]

long press →
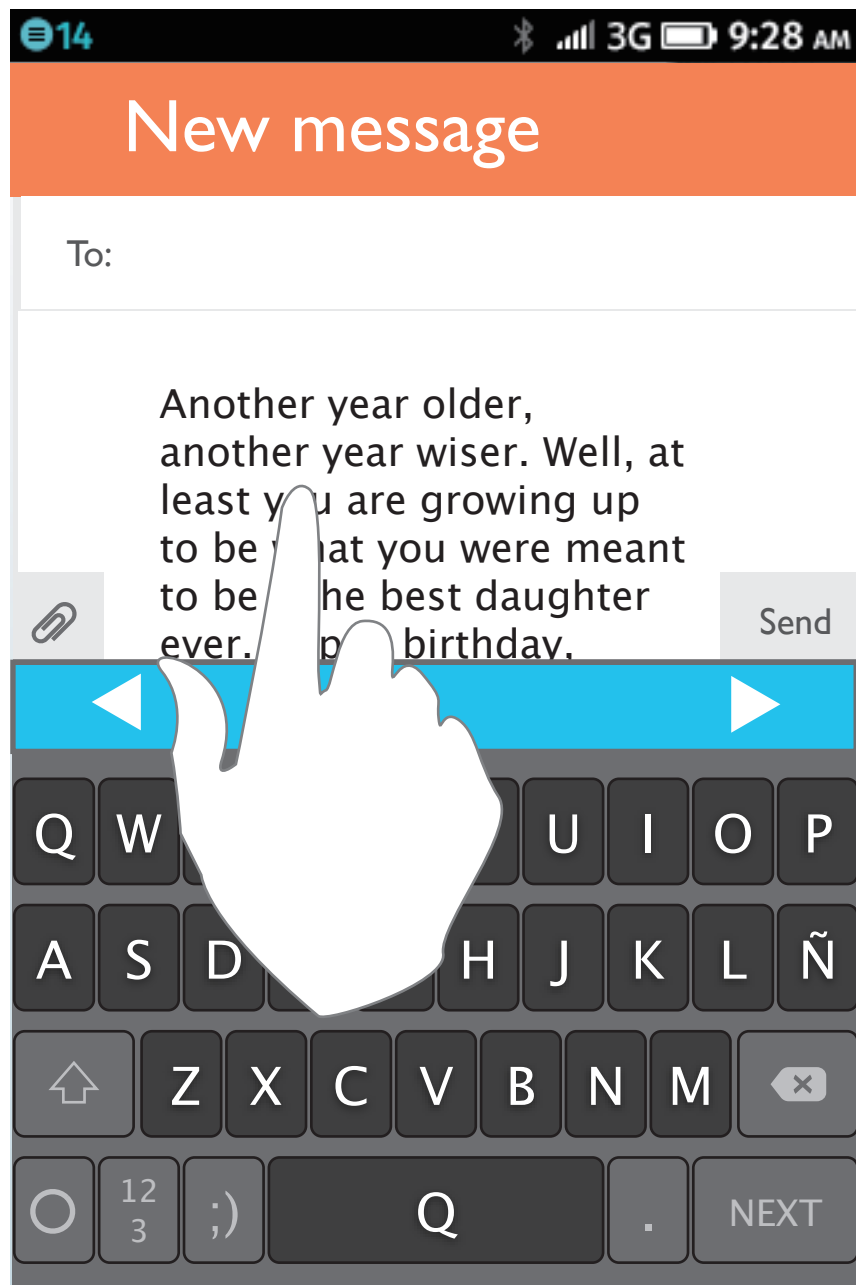
The user press and hold on a

2. [Highlight the selected word]
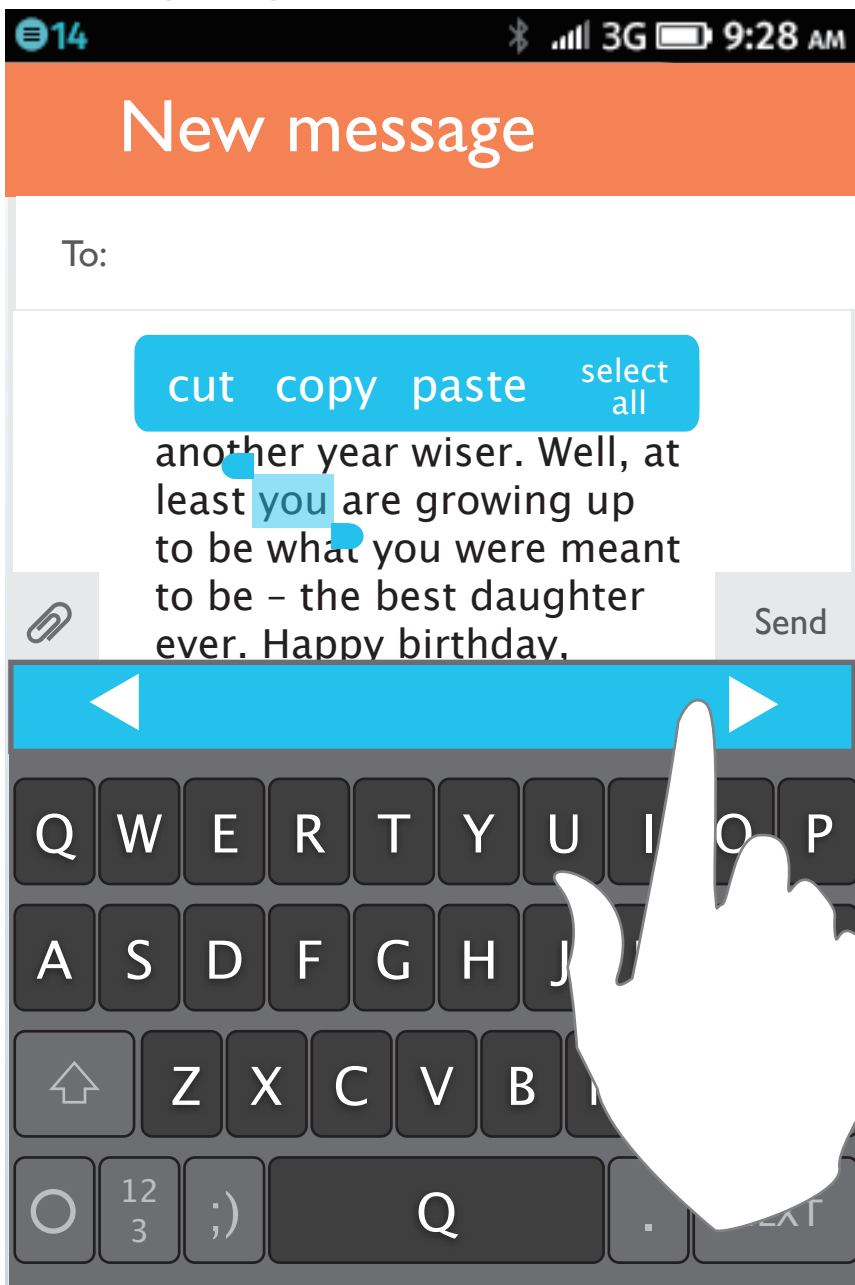
tap the right arrow →

The selected word will be highlighted and a utility bubble will pop up.
The user can tap the arrows to select more.
Tap the right arrow will continue highlighting the next word.

3. [Tap right arrow]
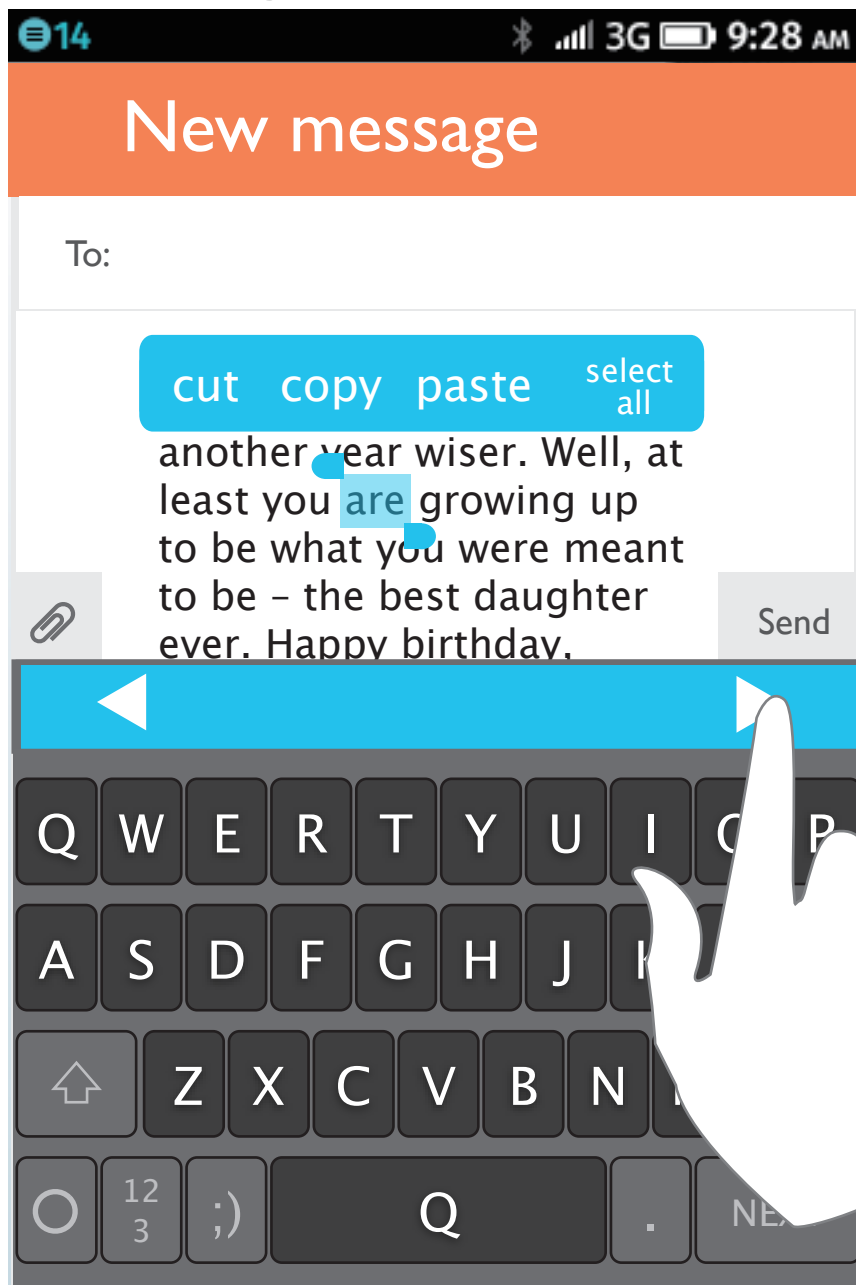
tap the left arrow →

The next word "are" is highlited.
The user can tap the left arrow to select the previous word.

4. [Tap left arrow]
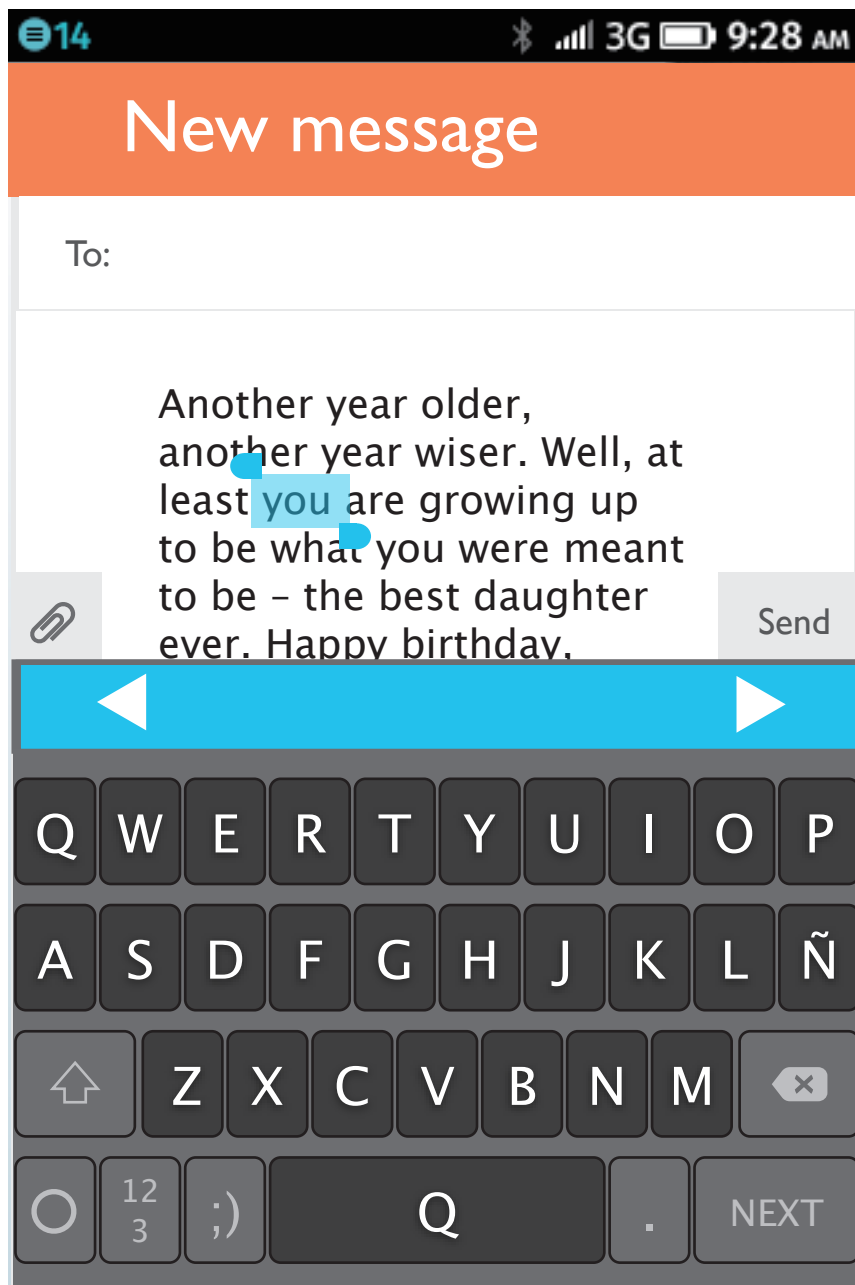
The previous word "you" is highlited now.
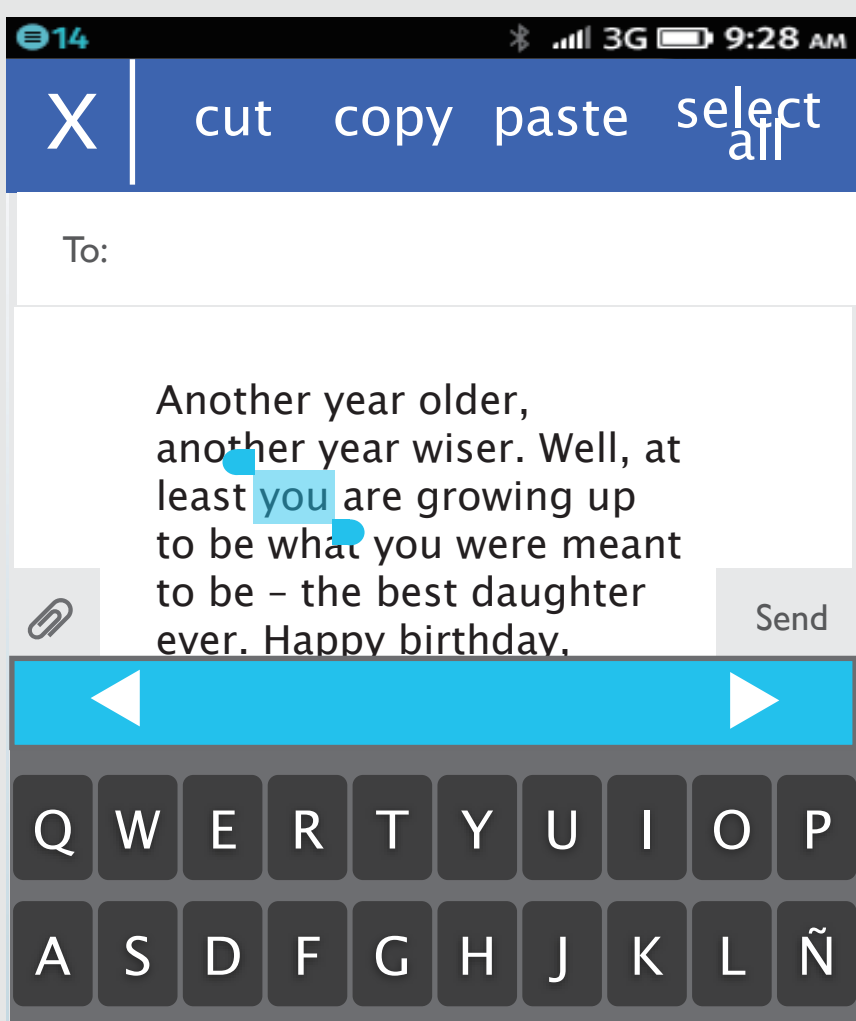
* Please note that Taipe UX team also propose another edit mode in v1.0 which puts cut, copy, paste, and select all in action bar that replace head instead of using bubble style.
The actionbar actually use the same concept and behavior such as Gallery's select mode and doesn't affect Haida's gesture.
Once the user scroll down the page till the top, the page should stop there.
And if user scroll down again, it should automatically quit selection mode and show Rocket bar.
We think this way is more consistent with current behavior at the same time has no conflict with Haida.

Firefox OS

Cursor positioning (in text selection mode) Proposal 2:

Exapnd the highlited area by tapping left/ right arrows

1. [Select in entry field]
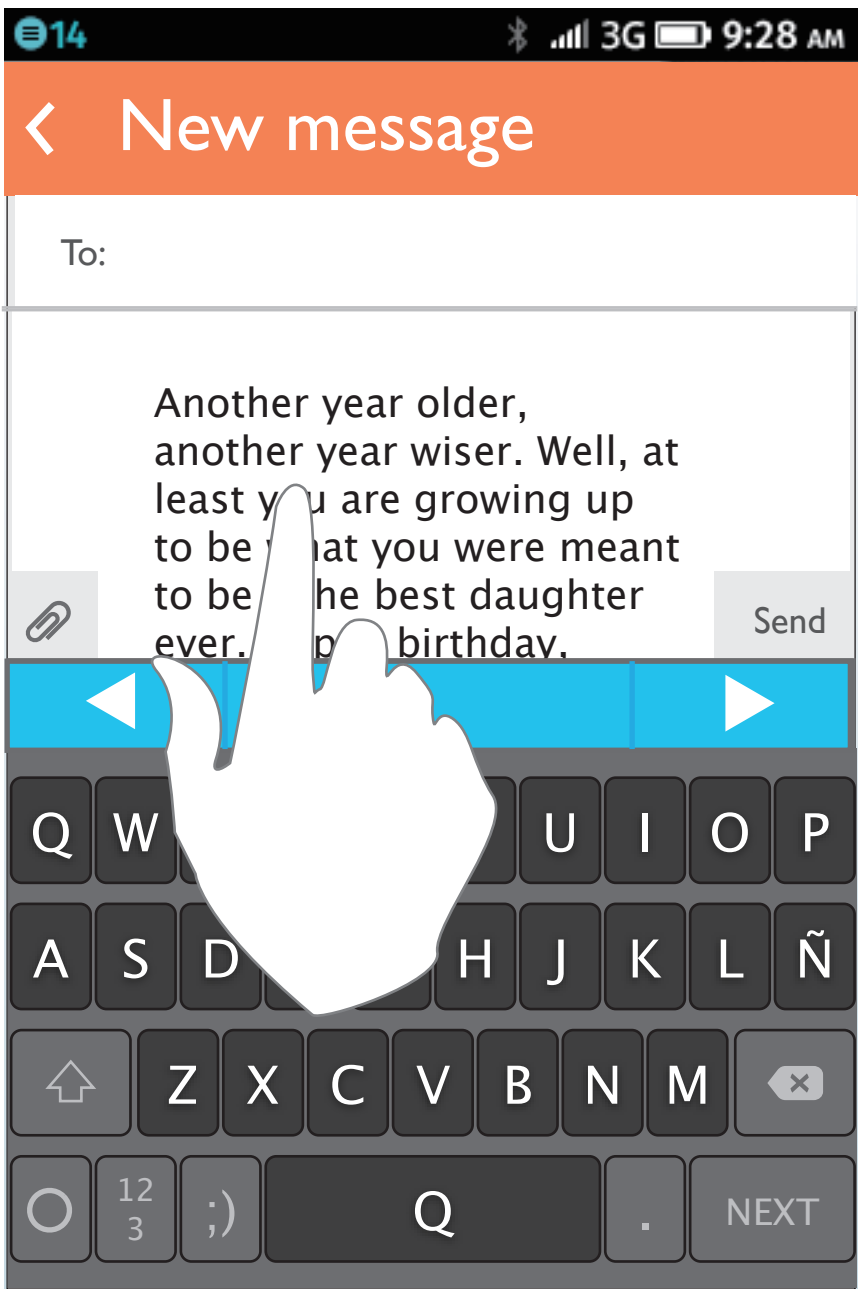

The user press and hold on a
 word to activate text selection.

long press

2. [Highlight the selected word]
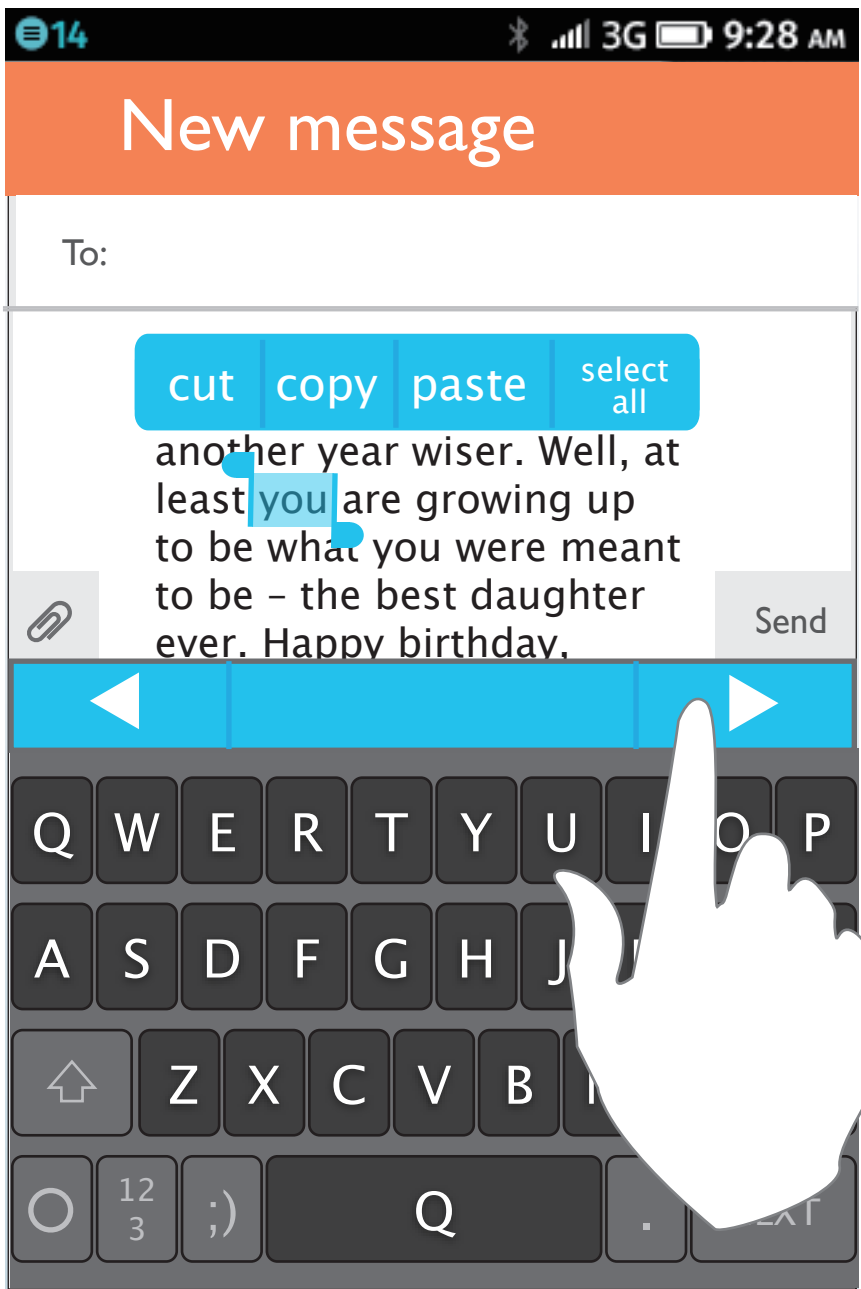
The selected word will be
highlighted and a utility bubble
will pop up.
The user can tap the arrows to
select more.
Tap the right arrow will continue
highlighting the next word.

tap the
right arrow

3. [Tap right arrow]
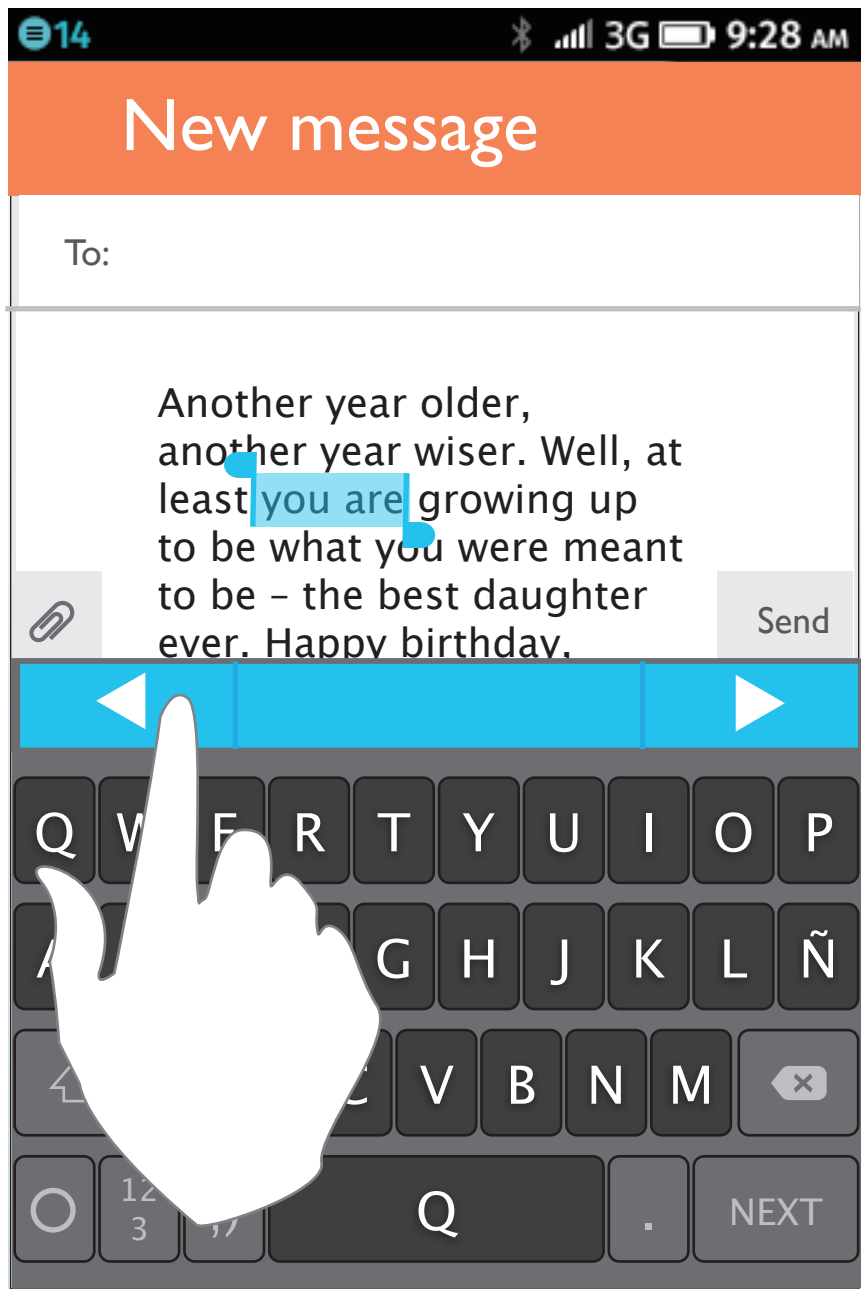
The next word "are" is also
highlited now.
The user can tap the left arrow to
additionally highlight the word on
the left of the selected area.

tap the
left arrow

4. [Tap left arrow]
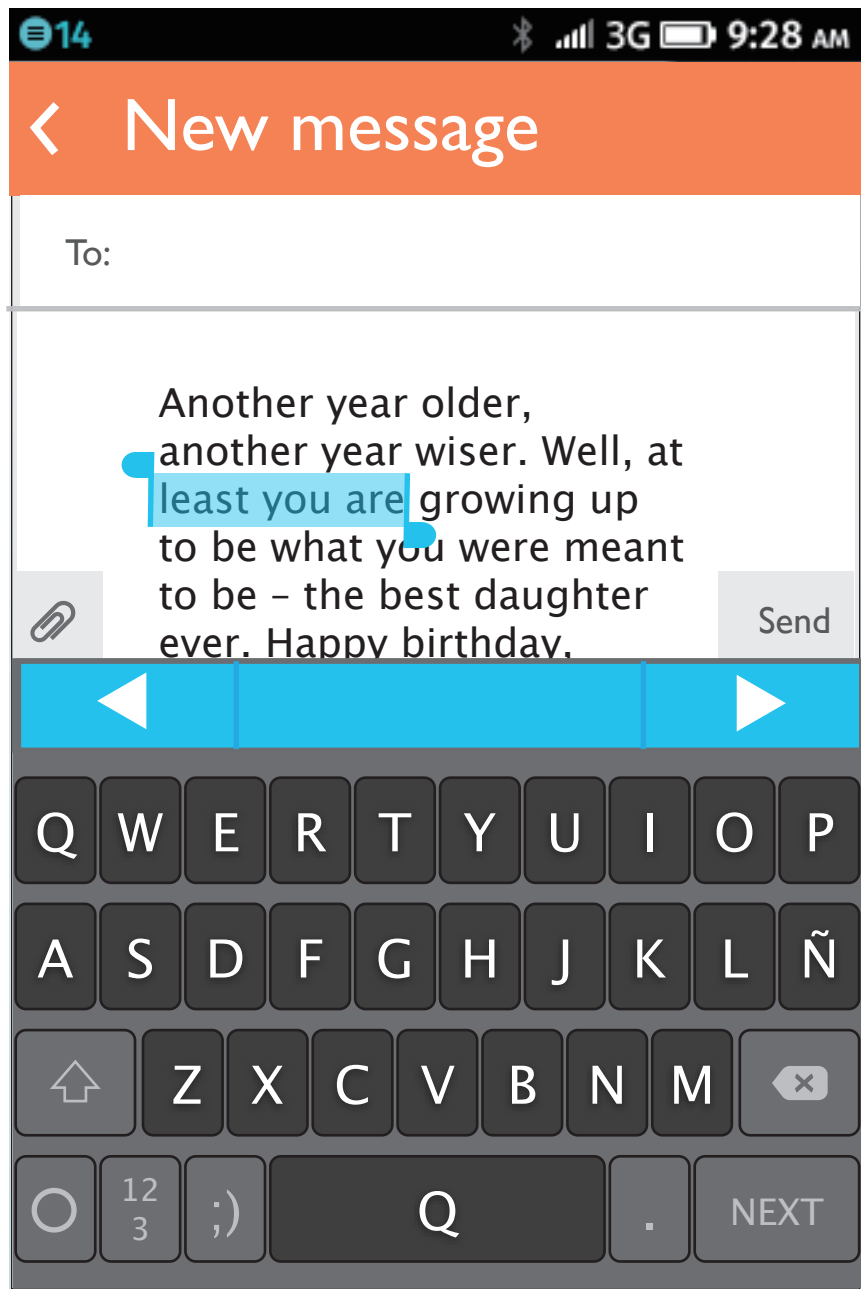
The previous word "least" is also
highlited now.

Cursor positioning (in URL field)

1. [Position cursor]
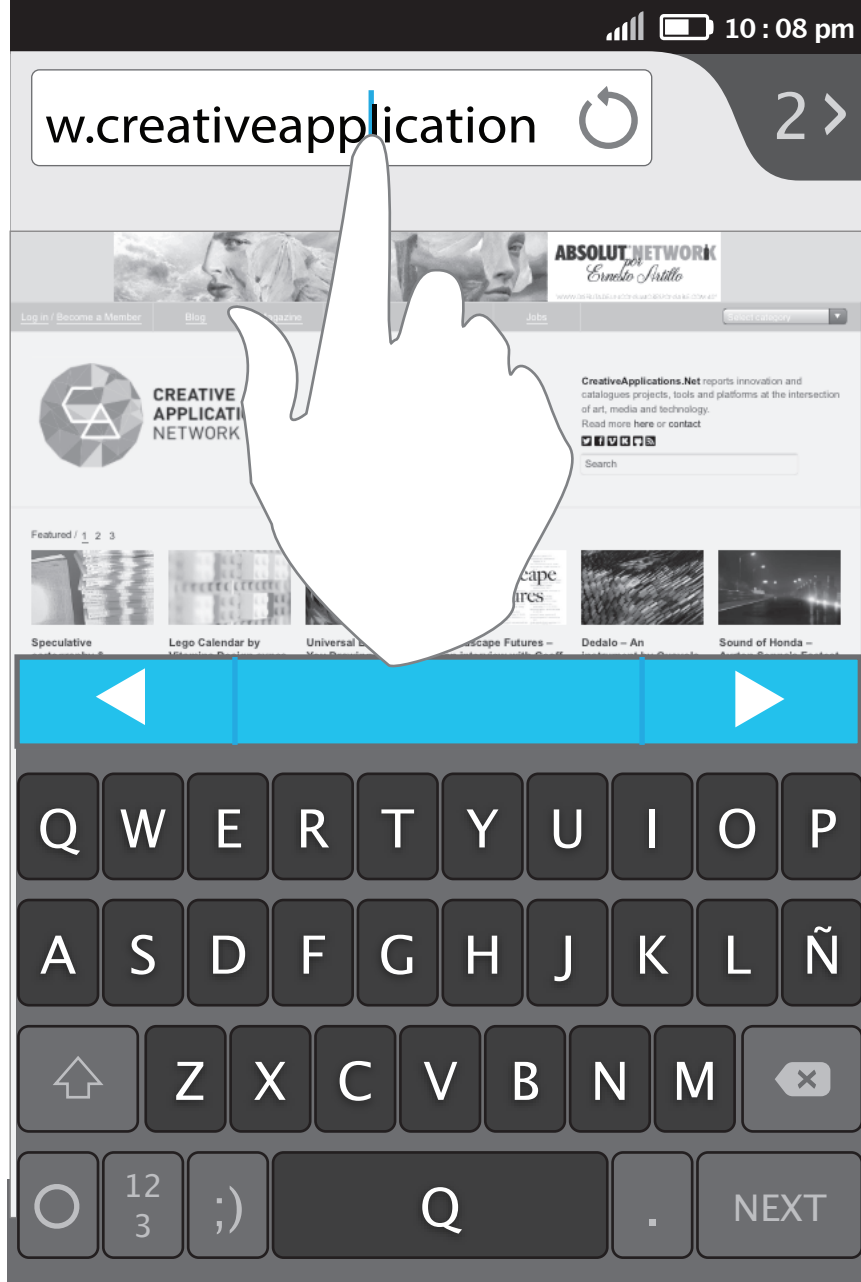
The user taps the url to position the cursor.

tap to position cursor

2. [Move the cursor]
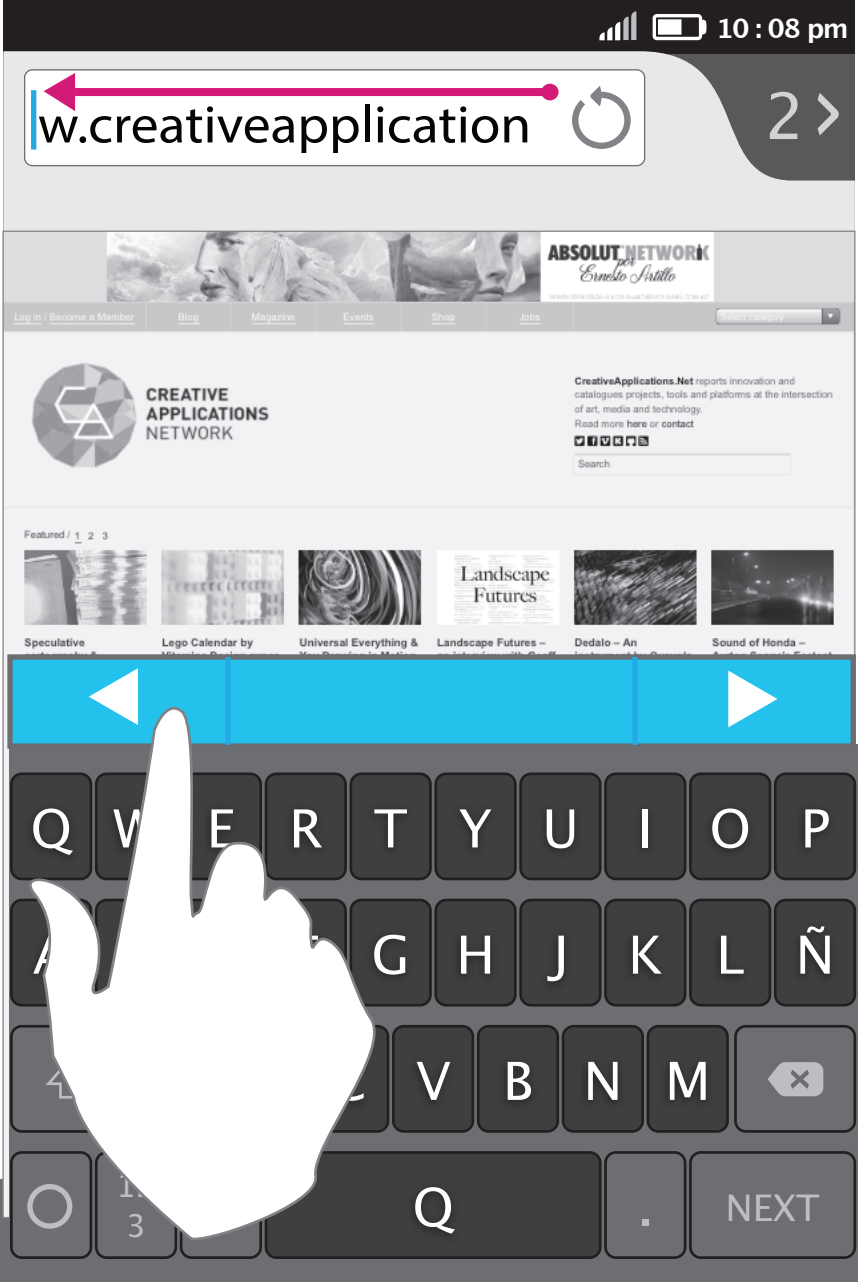
The user can tap the arrow key to move the cursor.
If the movement is too slow, the user can tap and hold to speed it up.

tap and hold left arrow

3. [Move to the left side]

Now the letters on the left side can be shown.

Text selection

Text selection for page content (select and cancel)

1. [Select web content]

Search or enter address 1›

Firefox OS

Firefox OS (project name: Boot to Gecko, also known as B2G)[5] is a Linux-based open-source operating system for smartphones and tablet computers. It is being developed by Mozilla, the non-profit organization best known for the Firefox web browser.

long press →

The user press and hold on a word to activate text selection.

2. [Highlight the selected word]

Search or enter address 1›

Firefox OS

Firefox OS (project name: Boot to Gecko, also known as B2G)[5] is a Linux-based open-source operating system for smartphones and tablet computers. It is being developed by Mozilla, the non-profit organization best known for the Firefox web browser.

copy   select all

drag →

The selected word will be highlighted and a "utility bubble" will pop up which provides the function "copy" and "select all".

ex: "smartphones" is selected.

3. [Drag to select more]

Search or enter address 1›

Firefox OS

Firefox OS (project name: Boot to Gecko, also known as B2G)[5] is a Linux-based open-source operating system for smartphones an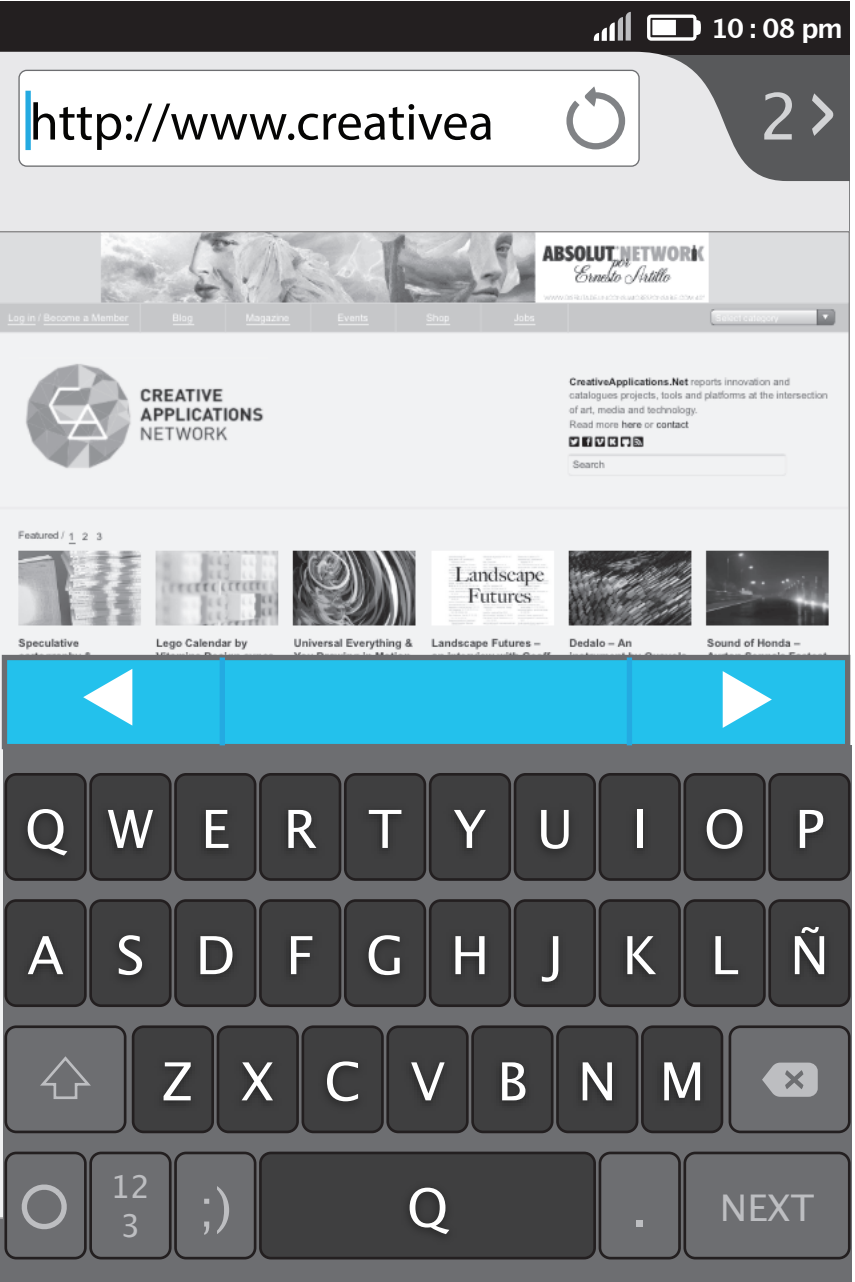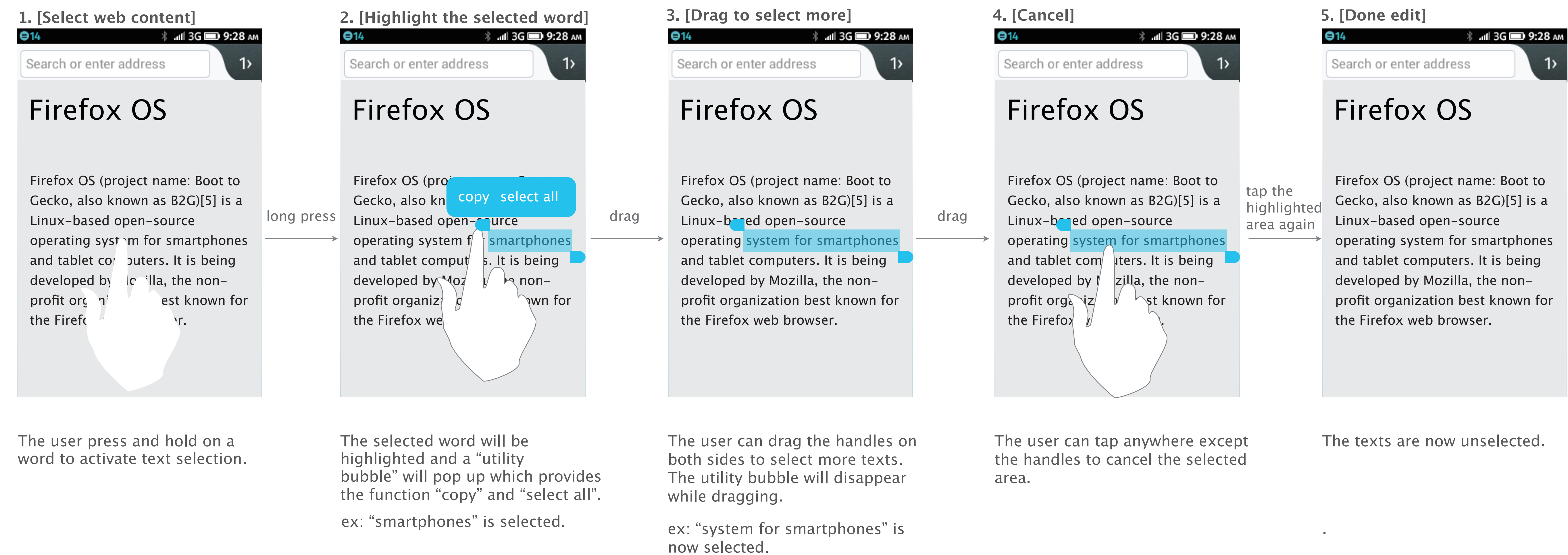d tablet computers. It is being developed by Mozilla, the non-profit organization best known for the Firefox web browser.

drag →

The user can drag the handles on both sides to select more texts. The utility bubble will disappear while dragging.

ex: "system for smartphones" is now selected.

4. [Cancel]

Search or enter address 1›

Firefox OS

Firefox OS (project name: Boot to Gecko, also known as B2G)[5] is a Linux-based open-source operating system for smartphones and tablet computers. It is being developed by Mozilla, the non-profit organization best known for the Firefox web browser.

tap the highlighted area again →

The user can tap anywhere except the handles to cancel the selected area.

5. [Done edit]

Search or enter address 1›

Firefox OS

Firefox OS (project name: Boot to Gecko, also known as B2G)[5] is a Linux-based open-source operating system for smartphones and tablet computers. It is being developed by Mozilla, the non-profit organization best known for the Firefox web browser.

The texts are now unselected.

.

Text selection for page content (select all and copy)

1. [Select texts]

Firefox OS

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finger moves away

The user press and hold on a word to activate text selection.

2. [Activate utility bubble]

Firefox OS

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copy   select all

Whenever the user's finger leave the touch screen, the utility bubble will show up.

3. [Select all]

Firefox OS

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copy   select all

tap select all

The user can then tap "select all" to highlight the whole page.

4. [All selected mode]

Firefox OS

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copy

tap copy

In "select all" mode, all the content on this page will be highlighted and the pop-up utility tray only shows "copy".

5. [Copy to clipboard]

Firefox OS

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The content now saved to clipboard.

Text selection for entry field (select and cancel)

1. [Select in entry field]

long press

The user press and hold on a word to activate text selection.

2. [Highlight the selected word]

drag

The selected word will be highlighted and a utility bubble will pop up and provide "cut", "copy", "paste" and "select all" for further edit.

3. [Drag to select more]

drag

The user can drag the handles on both sides to select more texts. The utility bubble will disappear while dragging, but it will show up when the user finish dragging and move the finger away from the screen.

4. [Tap again to cancel]

tap anywhere of the page

If the user tap anywhere of the page again (except dragging the handles), all the texts will be unselected.

*If user tap left or right arrow key in this status, the hilight actually goes to next or previous (single) word only.
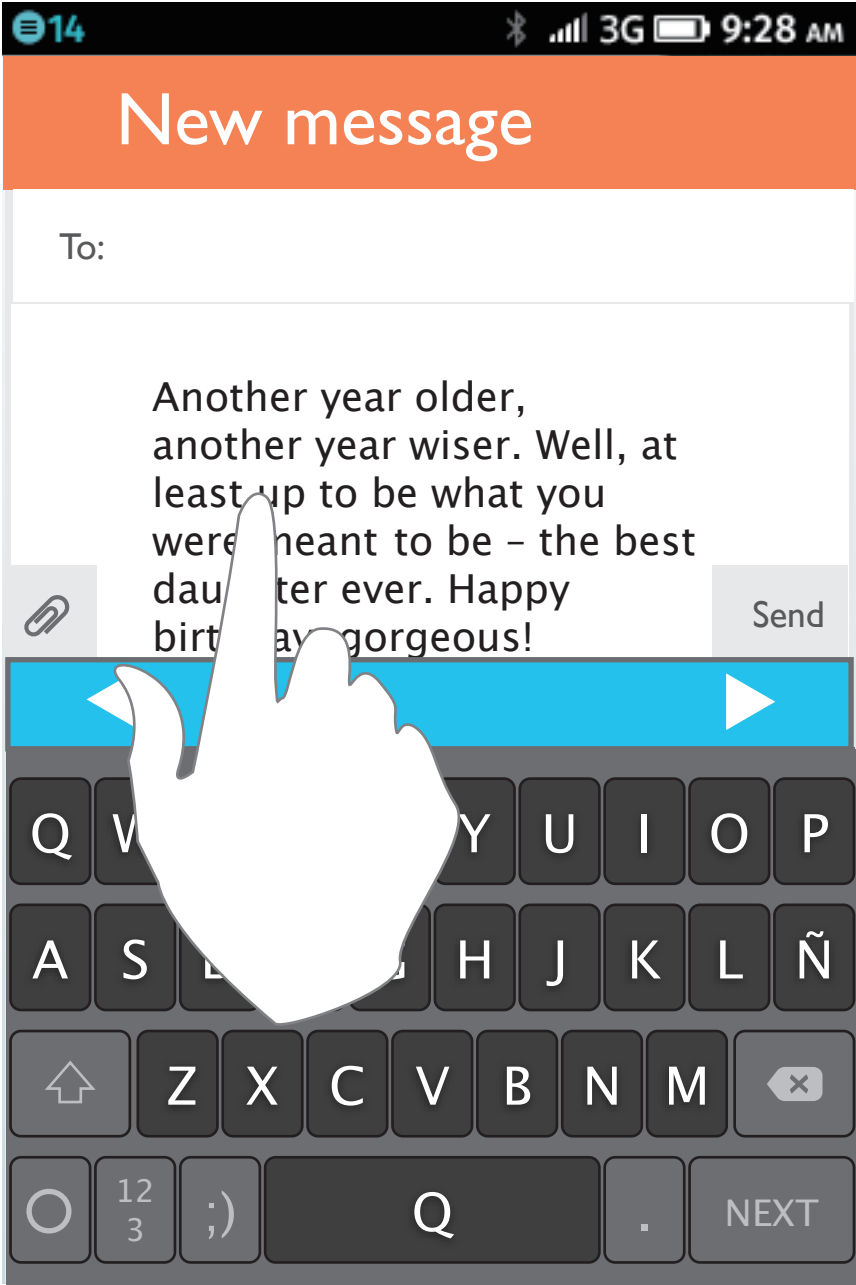
5. [Unselect]

The highlighted texts are unselected now.

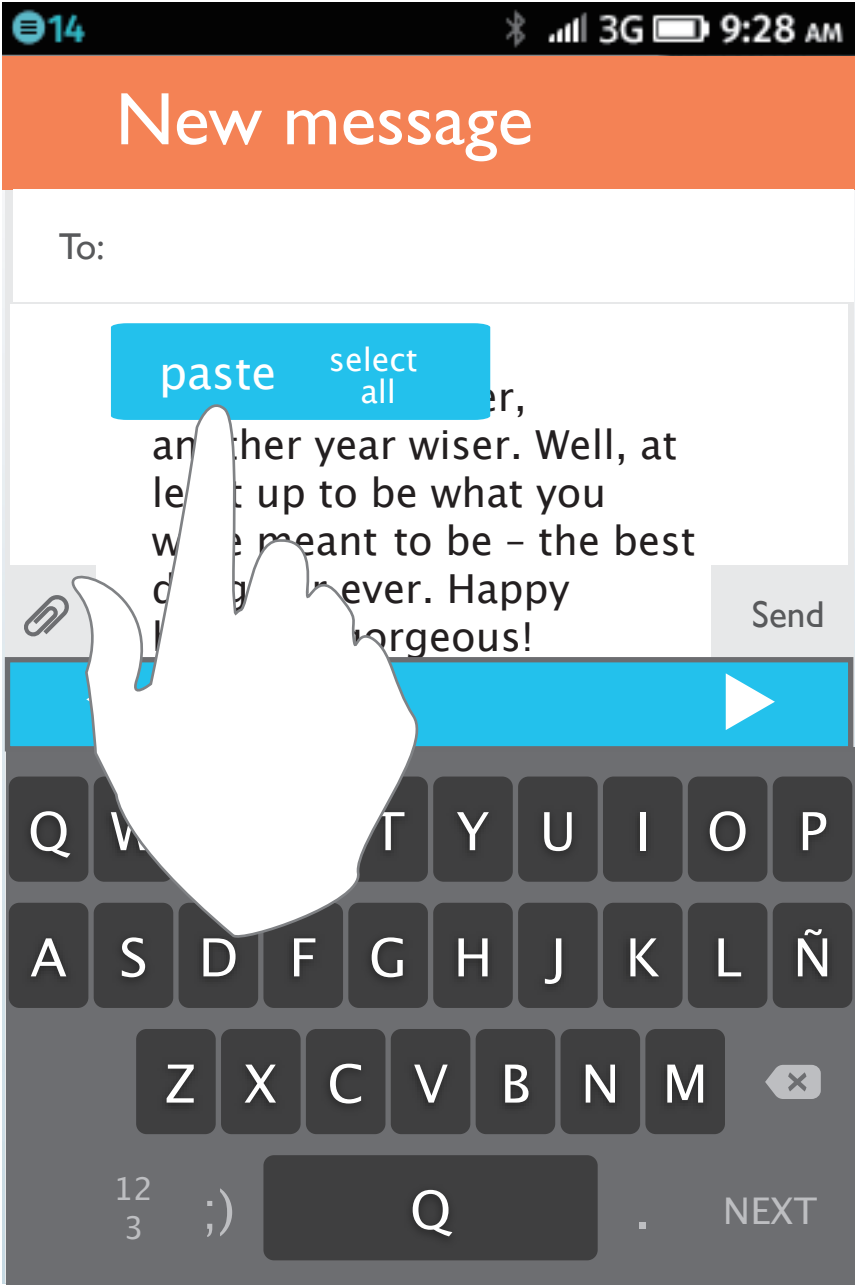# Text selection for entry field (cut and paste)

1. [Cut the selected word]
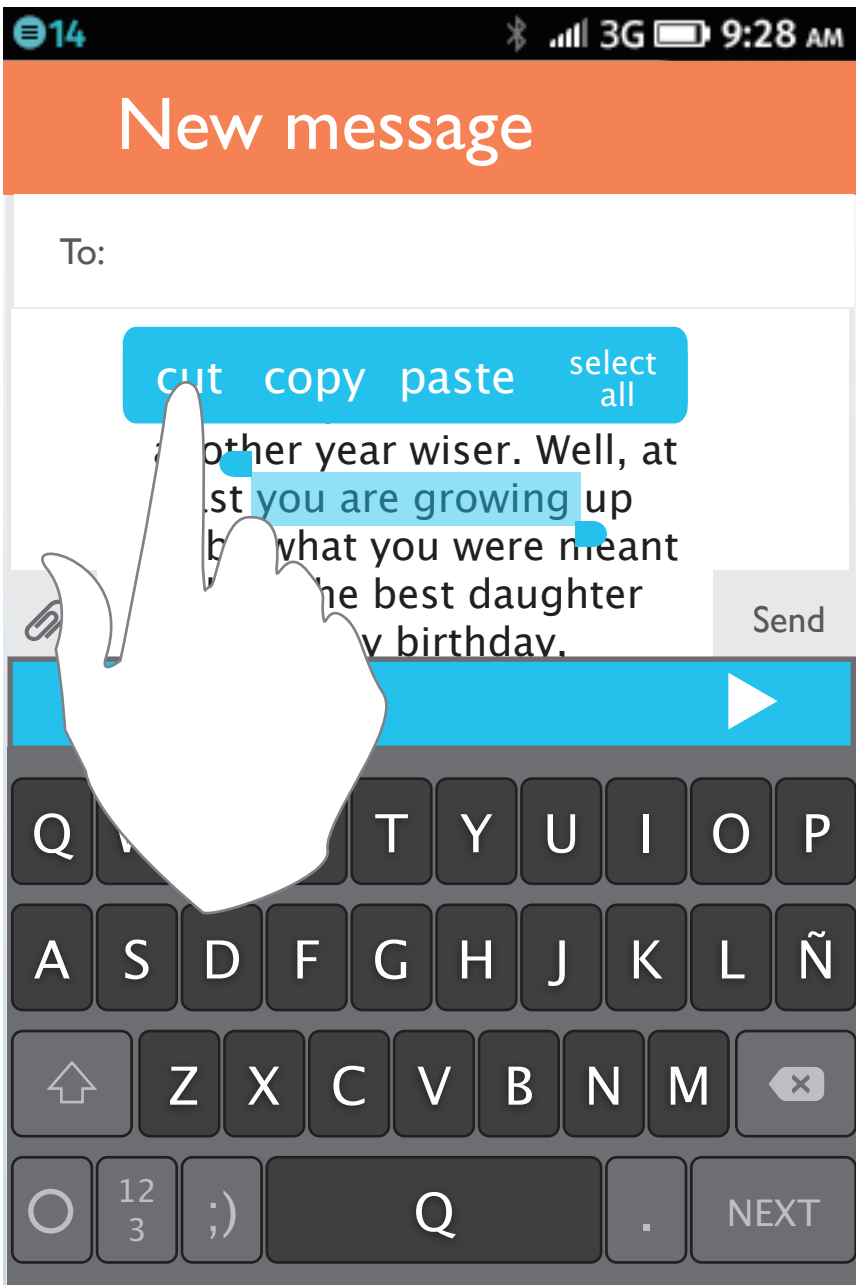
The user press and hold on texts and select the area he would like. The utility bubble then pops up. The user taps "cut" to cut the selected texts.
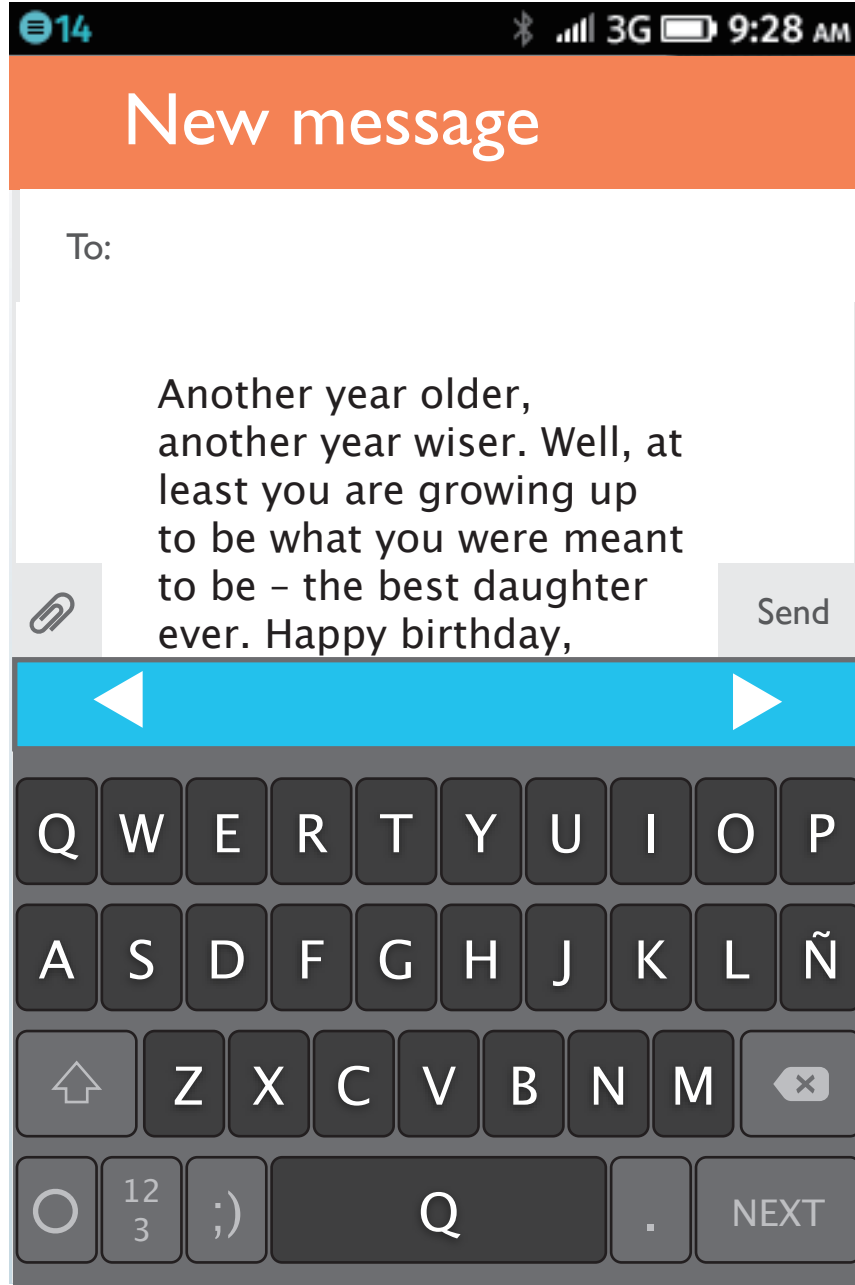
tap cut →

2. [Done cut]

The selected texts then disappear.

position the cursor →

3. [Paste the cut word]

The user tap the texts again (either reposition the cursor or tap the original position again). The utility bubble pops up and shows "paste" and "select all" for further edit.

tap paste →

4. [Done edit]

After tapping "paste", the cut texts will be pasted at the cursor's position.

---

cut copy select all

If it doesn't have any thing in clipboard, then there will be only "cut", '"copy" and "select all" in the utility bubble (in text selection mode).

cut copy paste select all

If the user has cut or copied texts before, then they would be saved in clipboard. There will be "cut", "copy", "paste" and "select all" in the utility bubble (in text selection mode).

paste select all

If the user has cut or copied texts before, the utility bubble which includes "paste" and "select all" will show up whenever the user position the cursor.

paste

If the user has cut or copied texts before and then go to a blank entry field, the utility bubble will only show "paste" when the user tap the cursor.

Text selection for page content and entry field (copy and paste)
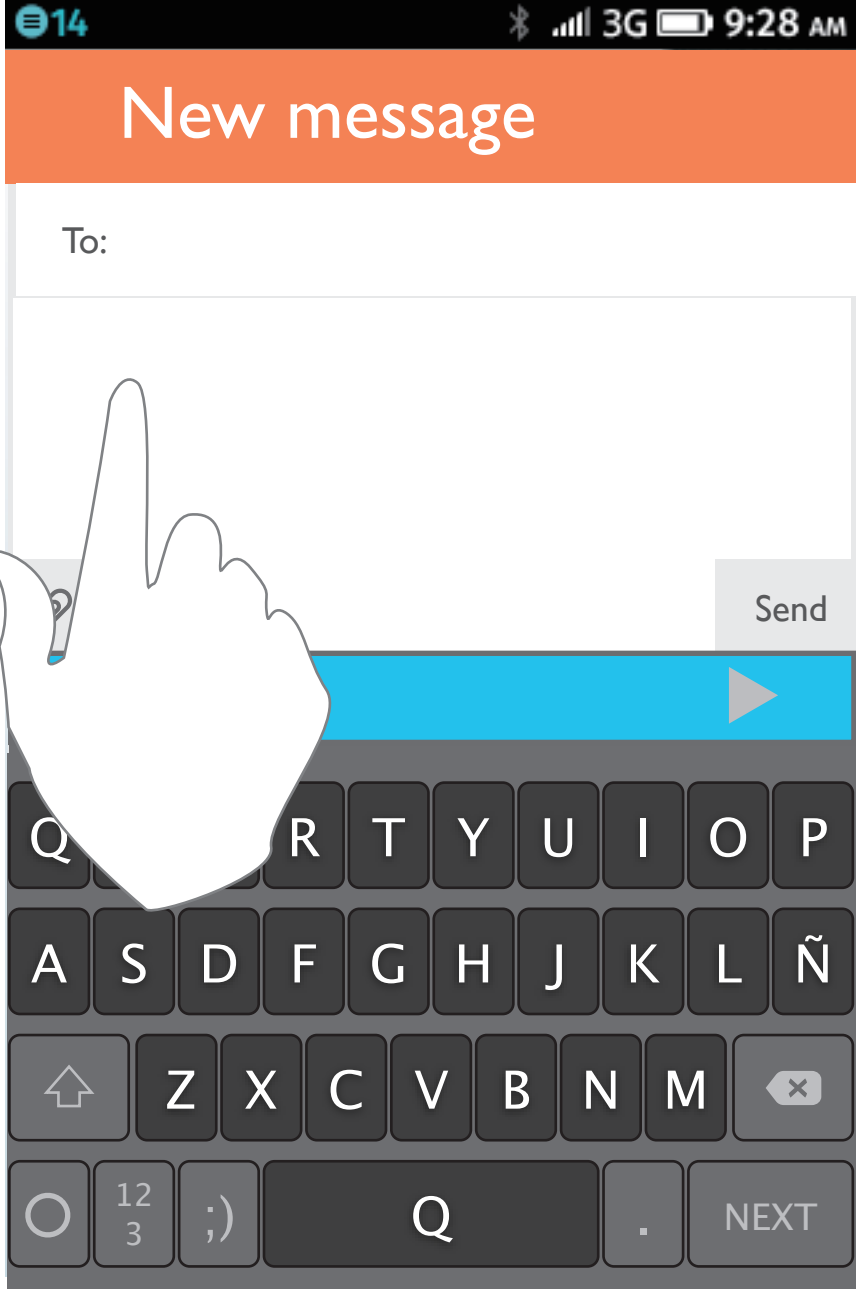
1. [Select web content]

Search or enter address 1>

Firefox OS

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long press →

The user press and hold on a word to activate text selection.

2. [Highlight the selected word]

Search or enter address 1>

Firefox OS

Firefox OS (proj... Boot to Gecko, also kn... Linux-based op... source operating syste... for smartphones and tablet... It is being developed... e non-profit orga... nown for the Firefox...

copy   select all

smartphones

tap copy →

The utility bubble pops up and the user taps "copy".

3. [Paste the cut word]

New message

To:

Send

The user then go to Message APP and tap the cursor on entry field.

tap cursor →

4. [Paste the cut word]

New message

paste

Send
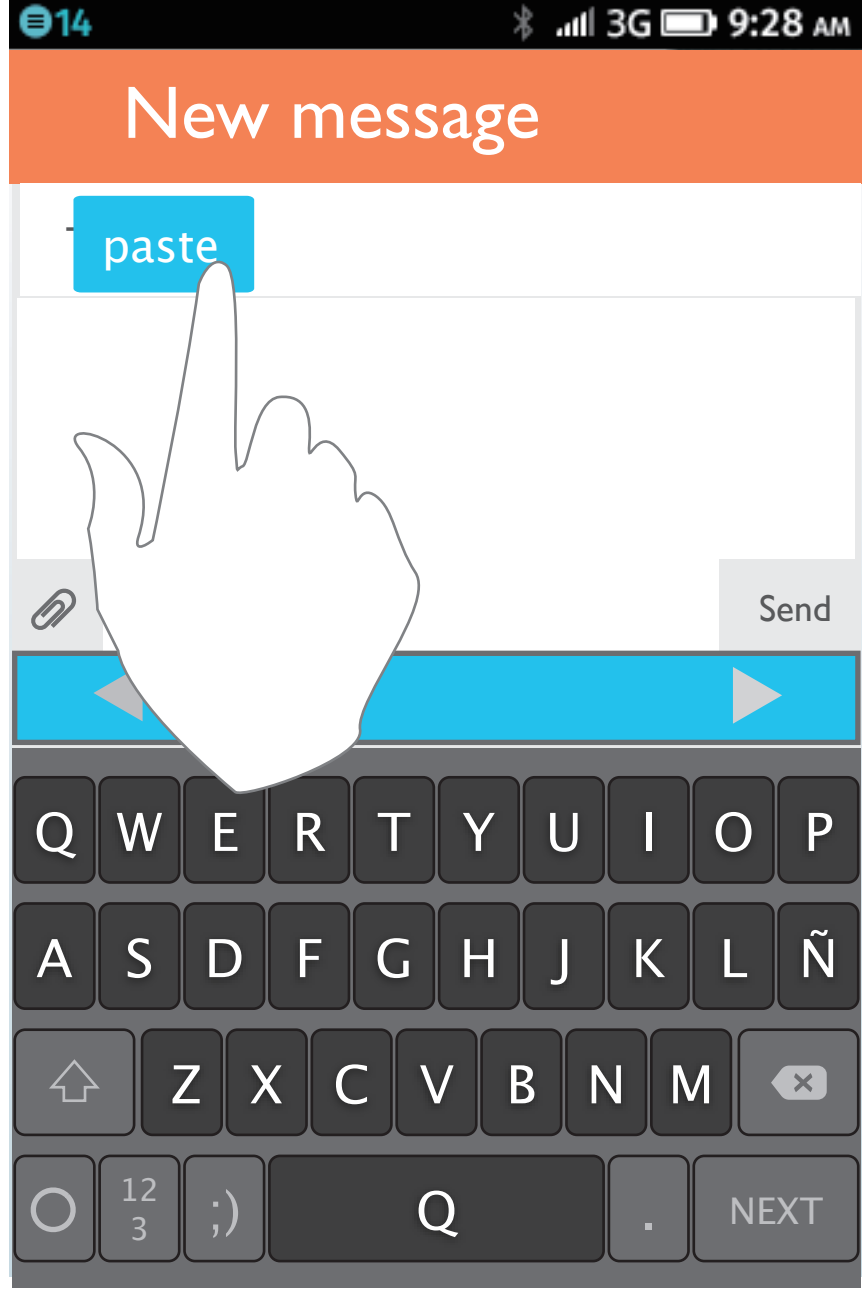
The utility bubble pops up and shows "paste". (Because the user hasn't typed anything yet, hence "select all" is disabled.)
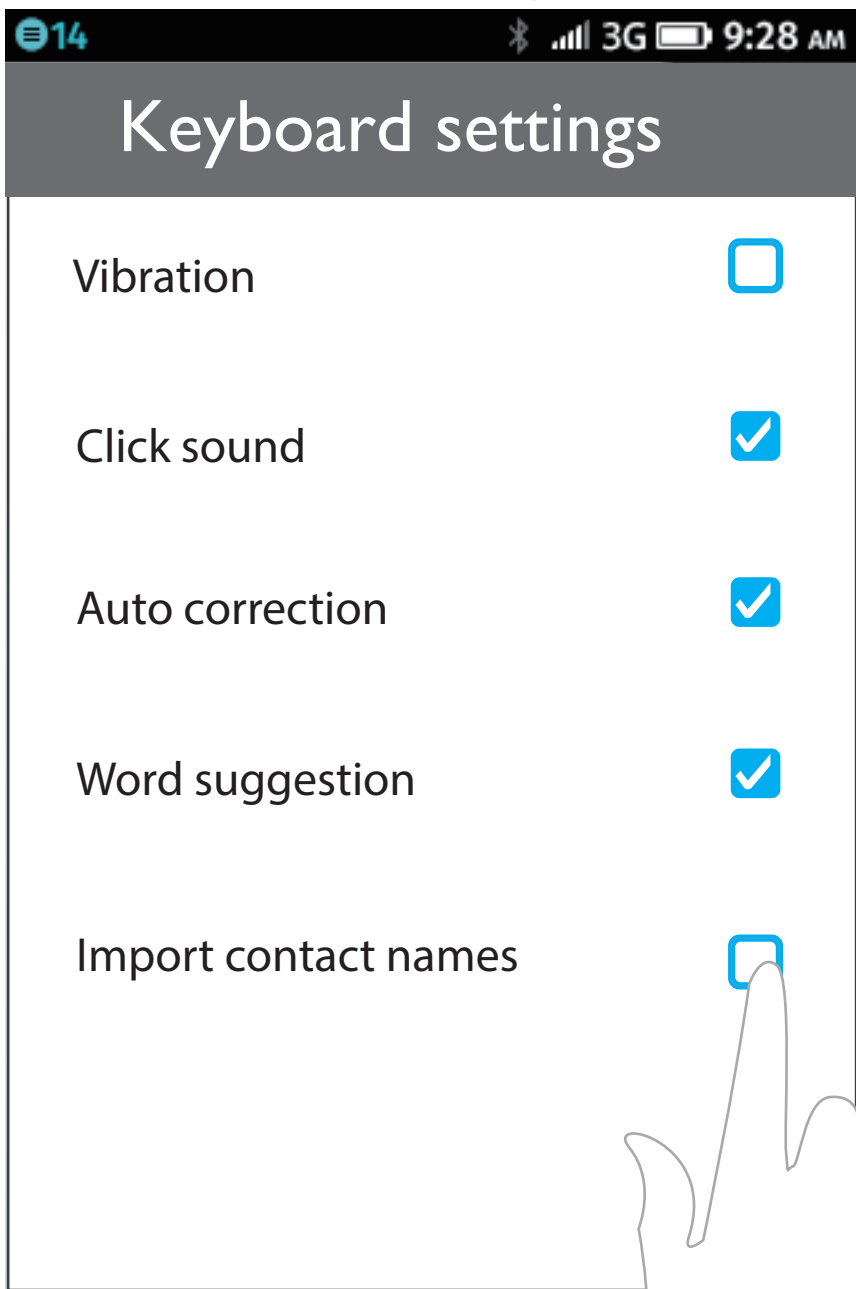The user then tap "paste".

tap paste →

5. [Done edit]

New message

To:

Smartphones

Send
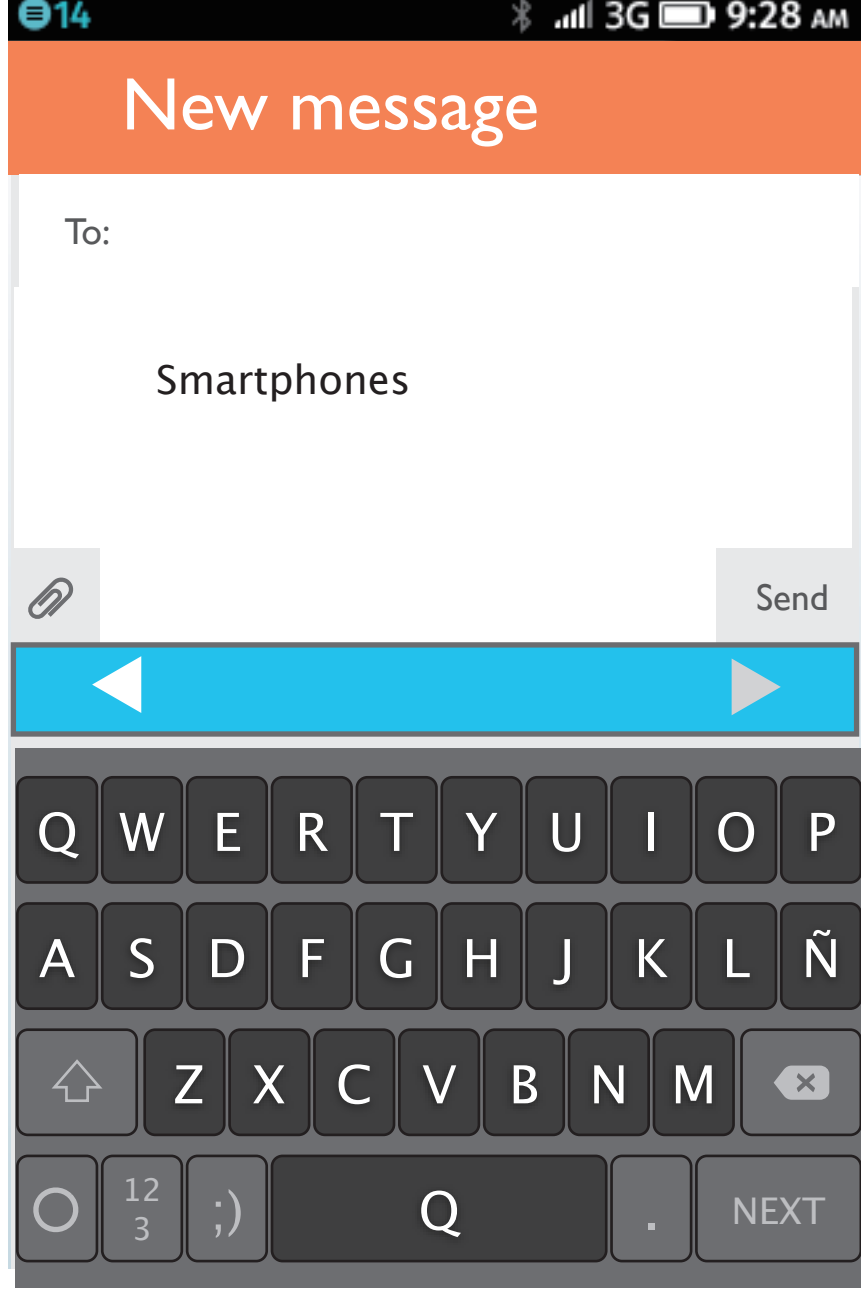
Then the selected texts from the web page will be pasted in Message APP.

Import names from Contact APP

Import contact names

1. [Keyboard settings]

Keyboard settings

Vibration ☐
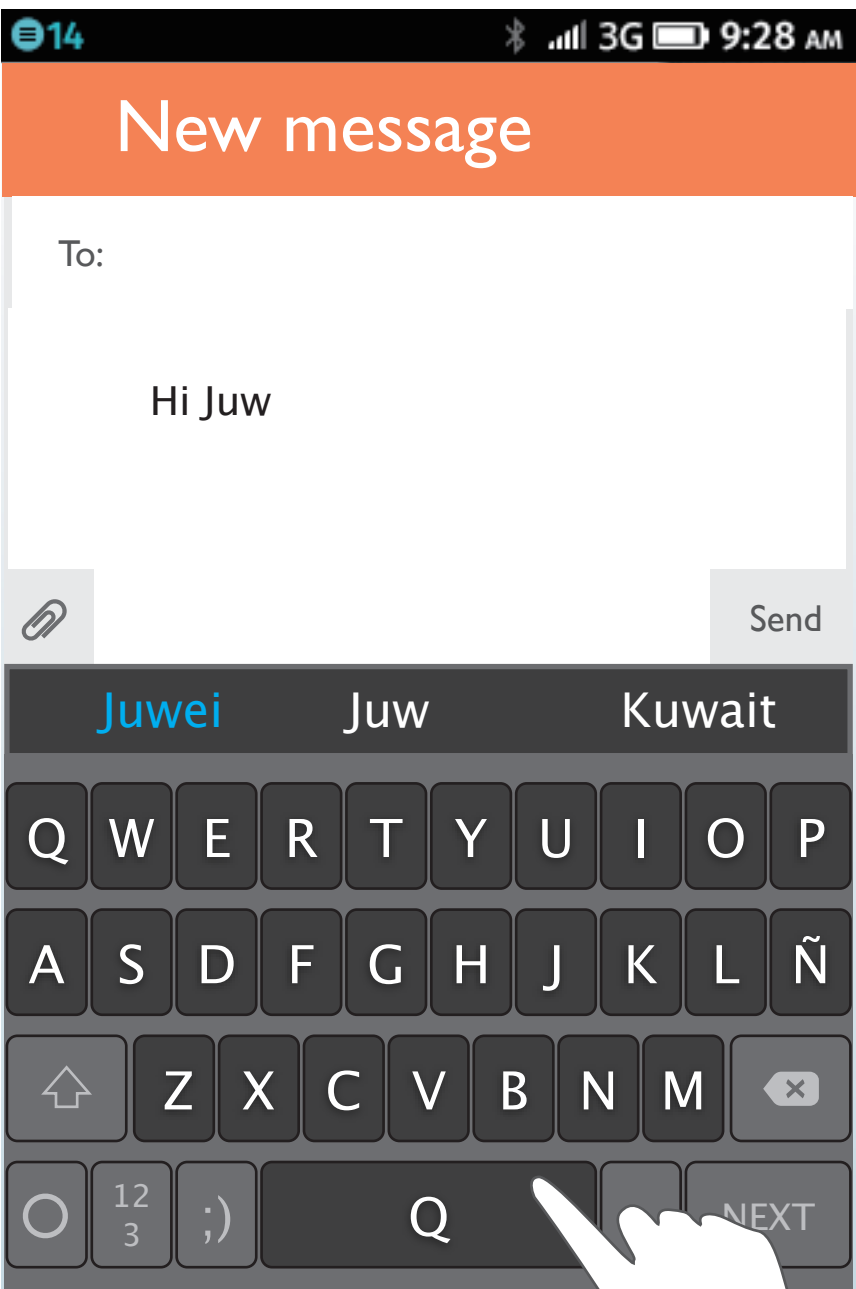
Click sound ☑

Auto correction ☑

Word suggestion ☑

Import contact names ☑

Add an option "Import contact names" in Keyboard settings so that the names in Contac APP will be added into database.

check "Import contact names"

2. [Contact names shown as candidates]

New message

To:

Hi Juw

Send

Juwei   Juw   Kuwait

Q W E R T Y U I O P
A S D F G H J K L Ñ
Z X C V B N M
123 ;) Q NEXT

Since the contact names are in the database now, the user can easily type friends' names and won't be auto-corrected.

Add new words to database

Adding new words (abbreviation, trending words)

This feature is useful when 1. the database is not good enought
2. users like teens may use new words often but not in any dictionary

1. [Abbreviation]

New message

To:

Thx

Send

| THC | Thx | The |

tap Thx →
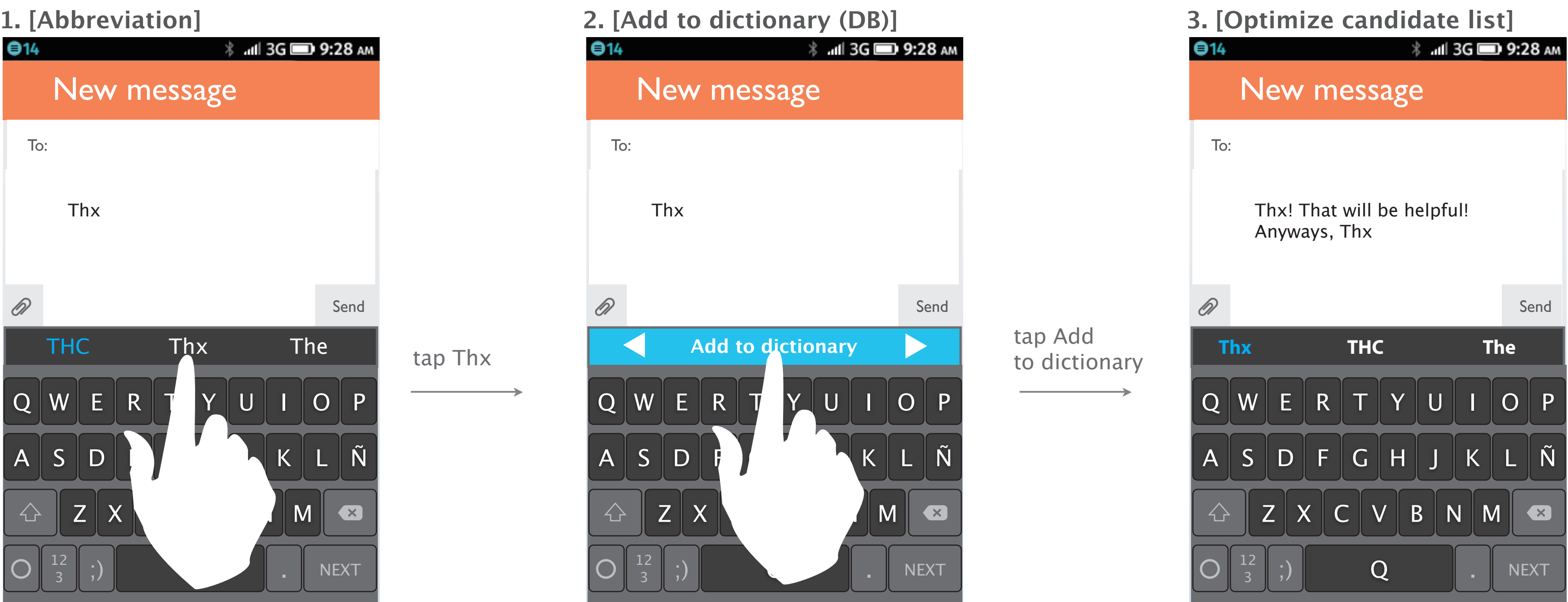
The user type Thx, which is not in database. Thus, he should tap it from candidate list, otherwise "THC" will be selected (auto-correct) by tapping spacekey.

2. [Add to dictionary (DB)]

New message

To:

Thx

Send

◀ Add to dictionary ▶

tap Add to dictionary →

The system would detect that the user selects a word which is not in database. Then the option "Add to dictionary" will show up on utility list.
The user can tap it to add the word into database so that he can type abbreviation or trending words easily.
This design should be not annoying visual perception since it may show all the time. (include arrow keys).

3. [Optimize candidate list]

New message

To:

Thx! That will be helpful!
Anyways, Thx

Send

| Thx | THC | The |

The priority of "Thx" will become higher next time.
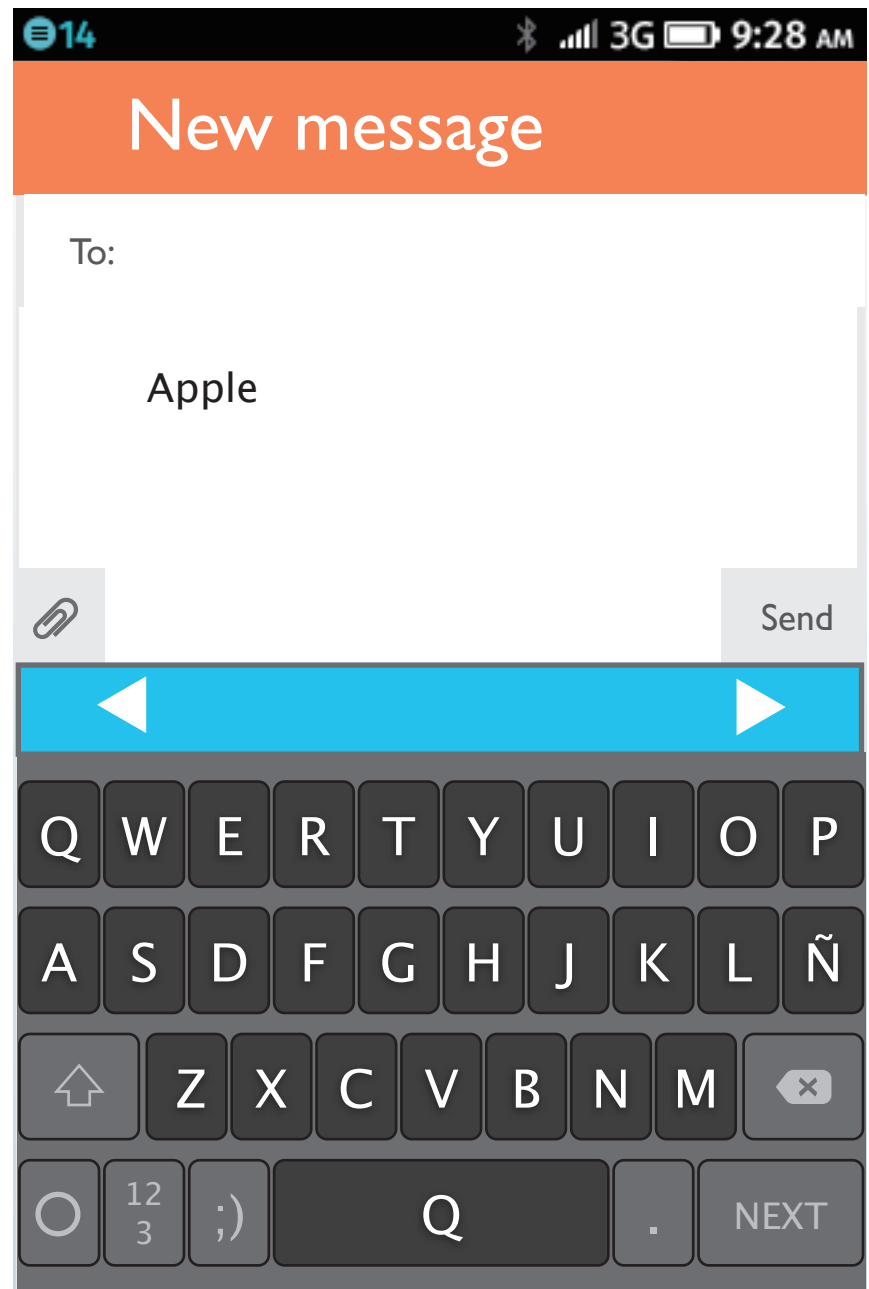
Non-new words (normal case)

1. [Select candidates]
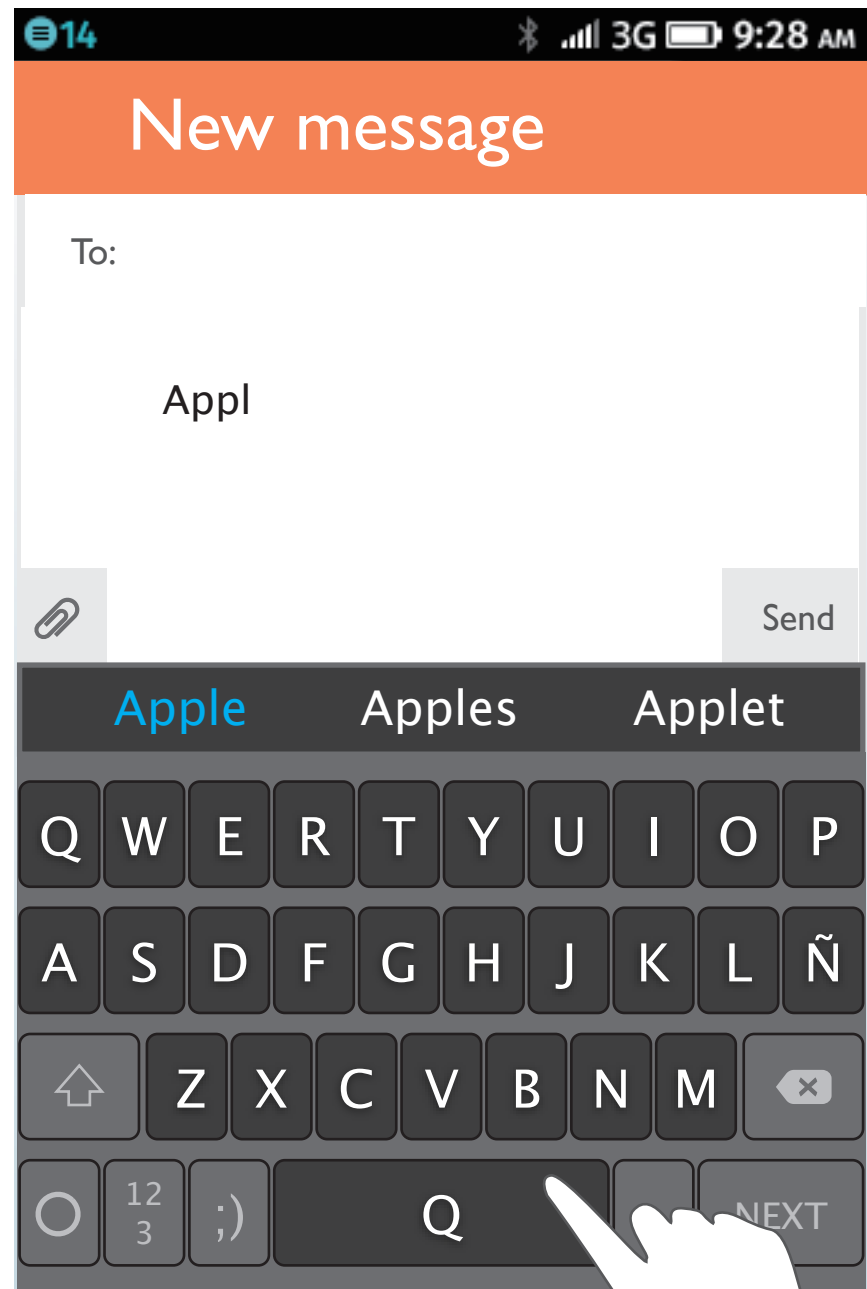
The user types Appl, and then tap the space key to auto-select the highlighted candidate.

tap spacekey →

2. [Done selection]

Since the candidate "Apple" exists in database already, the function "Add to dictionary" will not show up in this case.