

Firefox OS



FxOS 2.2 UX Spec Text Selection

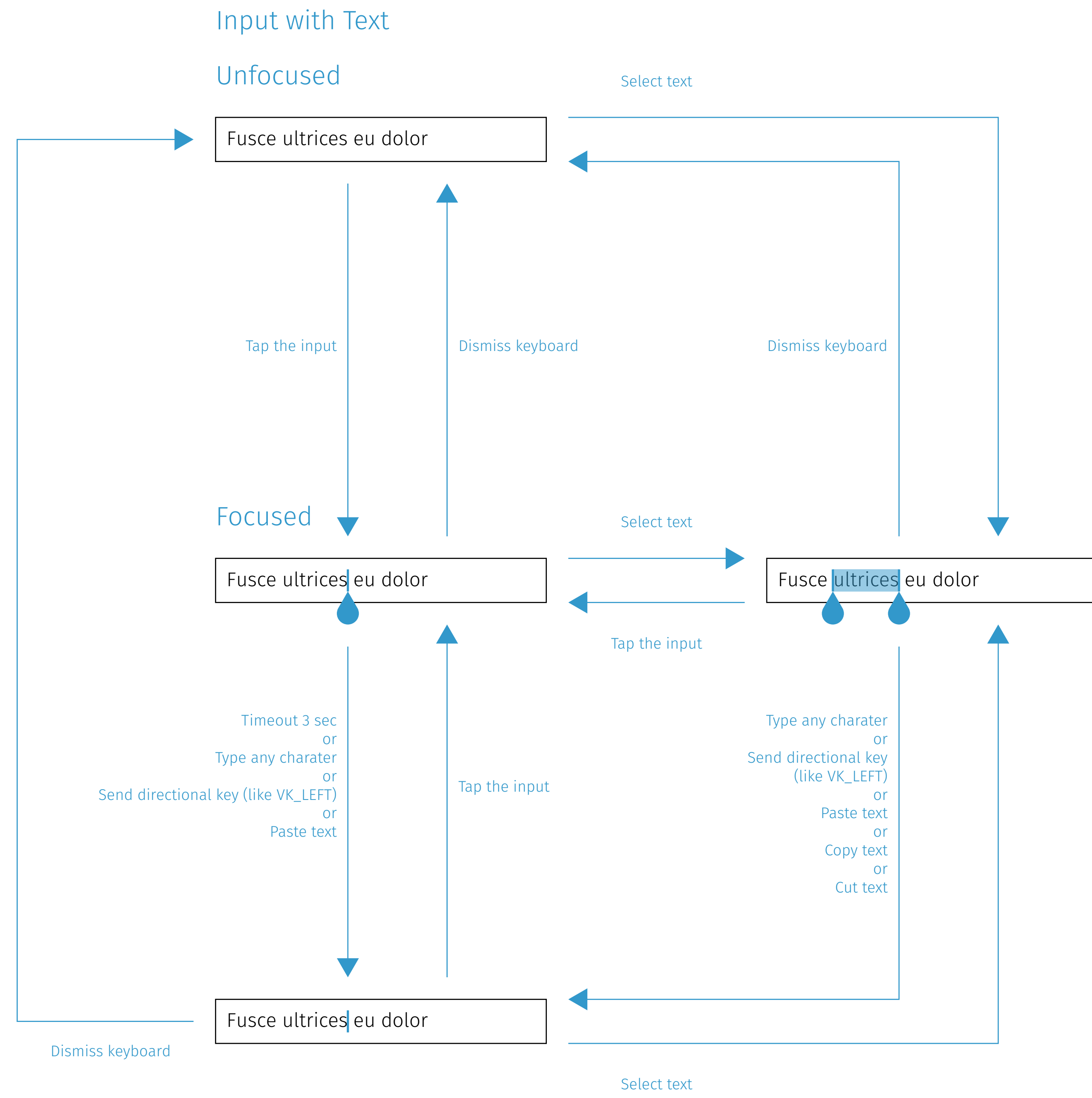
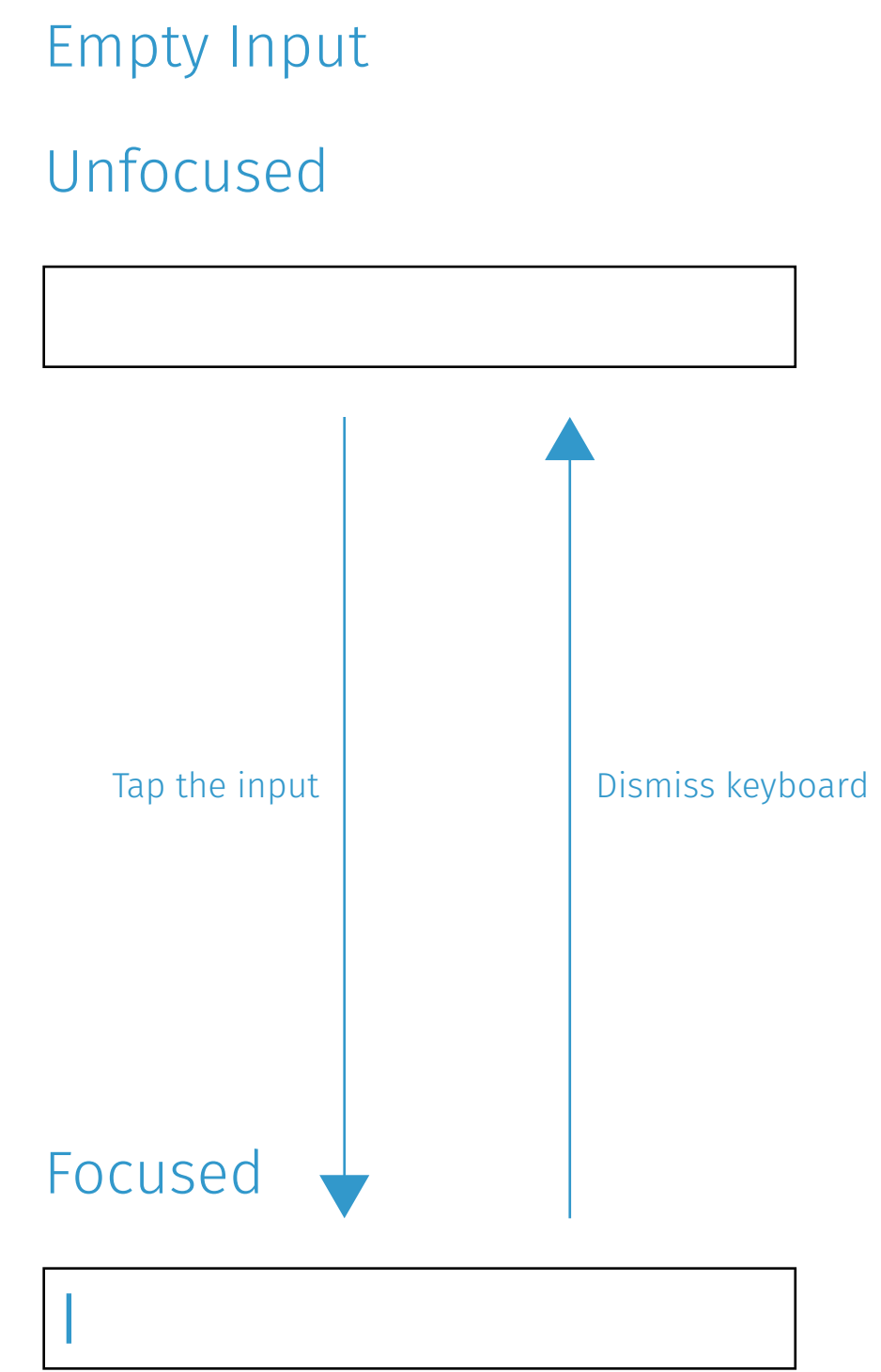
Version 1.6 [Oct 23, 2015]

Questions? E-mail the author or firefoxos-ux@mozilla.com

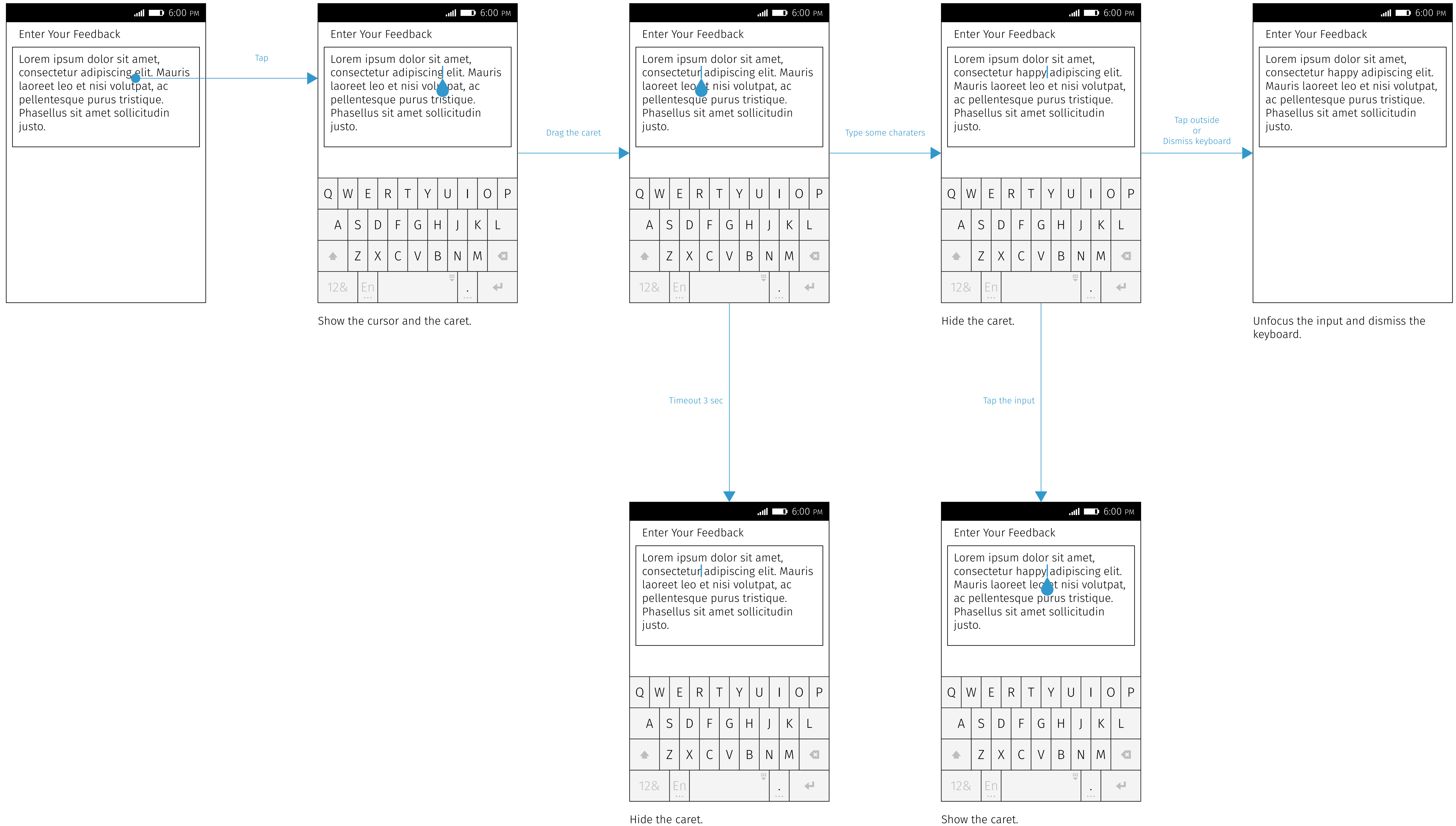
Release Notes

v0.1	Mar 27, 2014	Carrie Wang	The draft spec of text selection and copy paste in Edit field.
v0.2	Apr 15, 2014	Carrie Wang	For copy/paste scenario in password input field (password field can allow paste but copy) Update on text selection dismiss case. The selection won't be kept if the keyboard is off Add layout spec.
v0.3	Apr 25, 2014	Carrie Wang	p.10 Redefine the behavior: long tap -> text selection; select the whole link in Browser URL field p.15 Add the rule of "select all" when the selected area is larger than the screen display.
v0.4	Jun 6, 2014	Omega Feng	p.14 Revising "Dismiss keyboard" description p.15 Revising "A lot of text selected" rule p.16 Revising the typo
v0.5	Jun 13, 2014	Omega Feng	p.14 Revising "Dismiss keyboard" description p.15 Adding "Mode transition"
v1.0	Jul 1, 2014	Omega Feng	Adding single handle Removing proposal 2 of scrolling Adding text selection for non-editable area
v1.1	Aug 6, 2014	Omega Feng	Adding handle tilt rules
v1.2	Aug 26, 2014	Omega Feng	Removing 2 or more rows rule for handle tilt Adding cases: scrolling, overscrolling, zooming, orientation changing, and scrolling iFrame
v1.3	Nov 13, 2014	Omega Feng	Re-organize the whole spec
v1.4	Jan 14, 2015	Omega Feng	Password Input: Allow only "Select All" and "Paste" in password input
v1.5	Oct 15, 2015	Tori Chen	p.17 Adding one use case to utility bubble > position (Bug 1210341)
v1.6	Nov 23, 2015	Tori Chen	p.30 Adding utility bubble position for vertical writing mode (Bug 1217757)

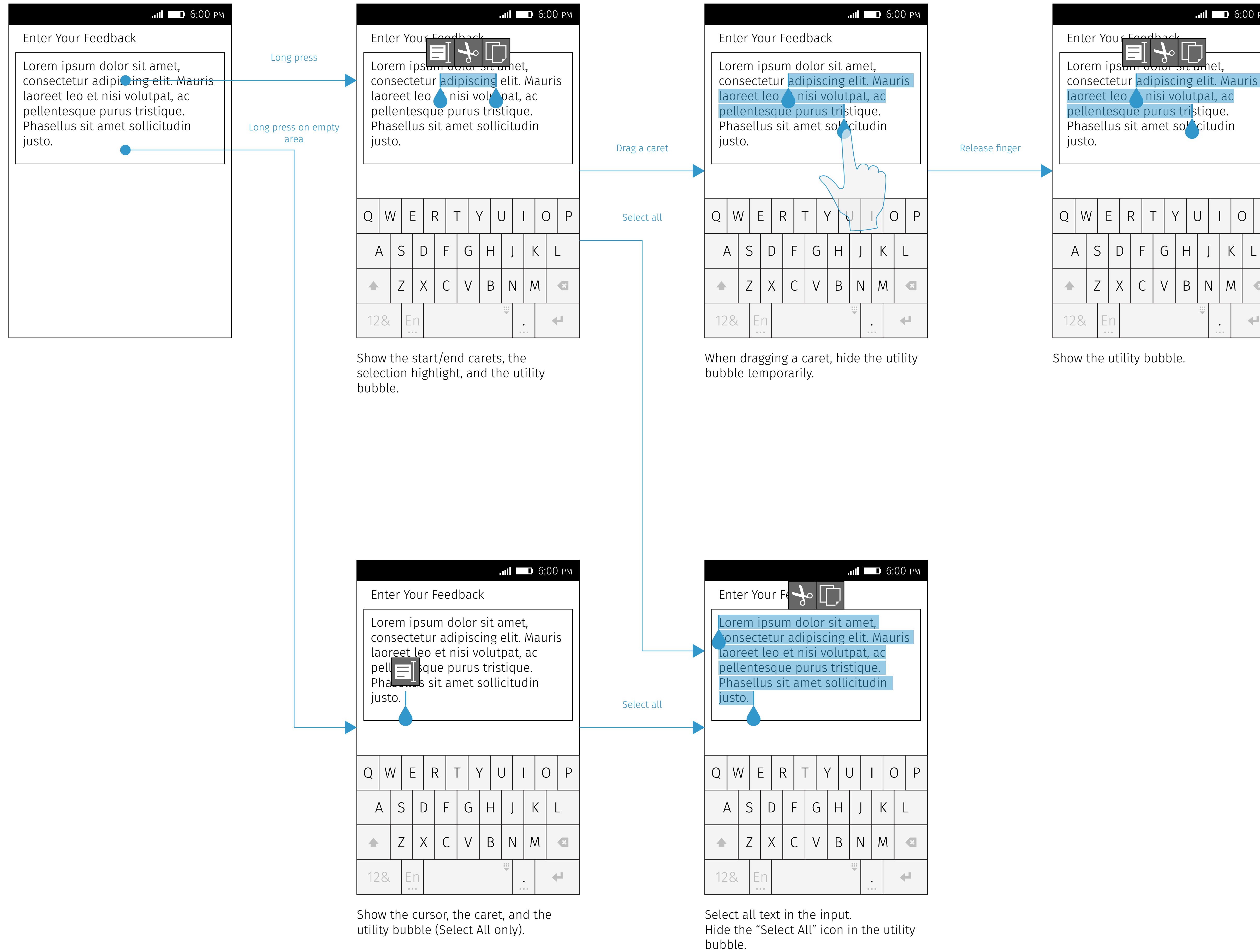
Mode Transition



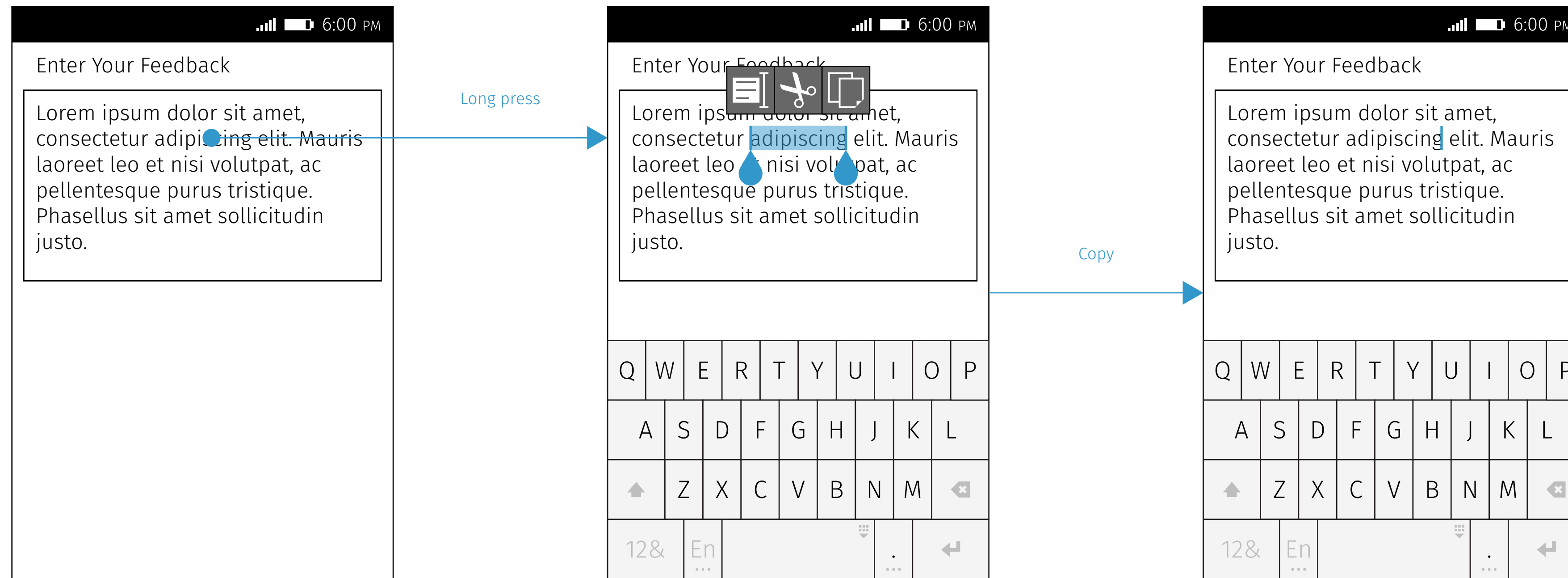
Cursor Movement



Text Selection



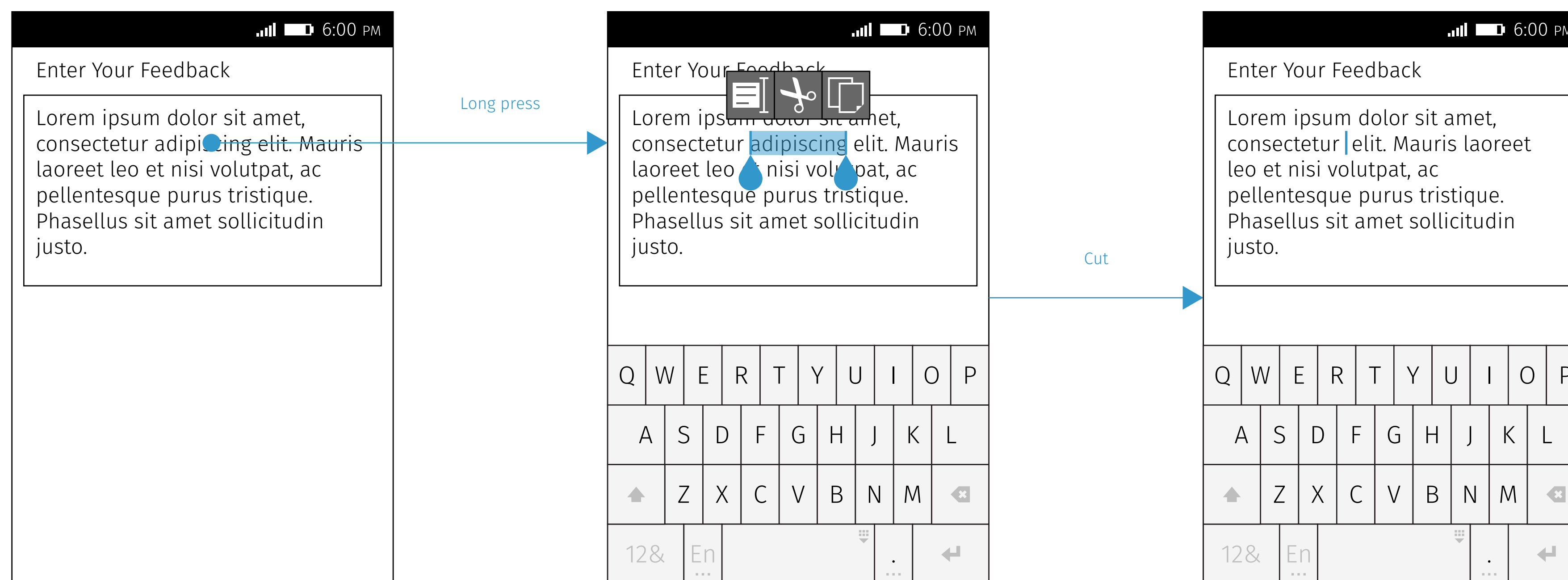
Copy



Show the start/end carets, the selection highlight, and the utility bubble.

Copy the selected text into clipboard. Hide the start/end carets, the selection highlight, and the utility bubble.

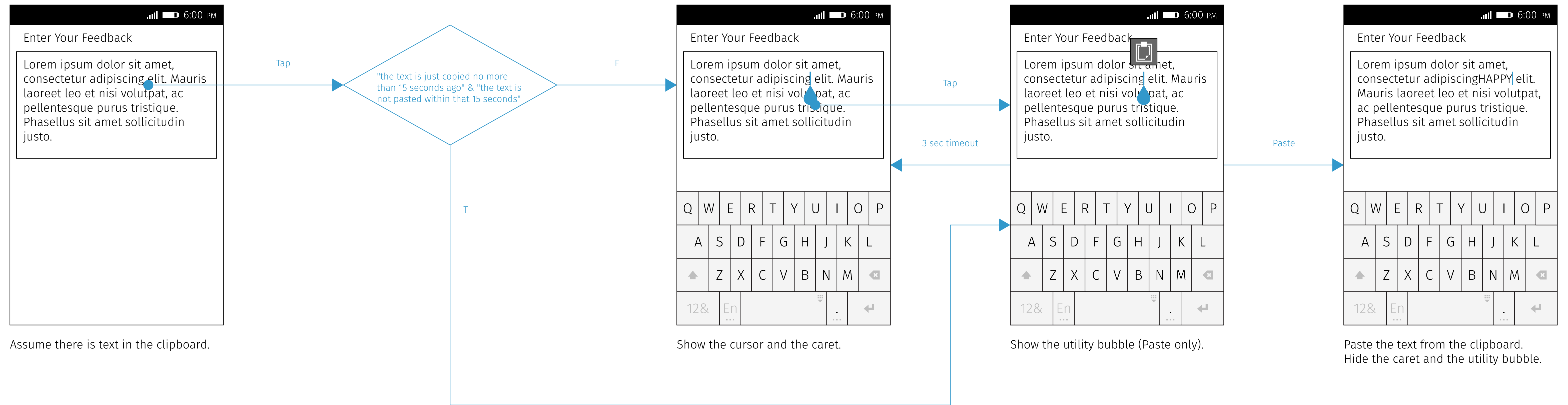
Cut



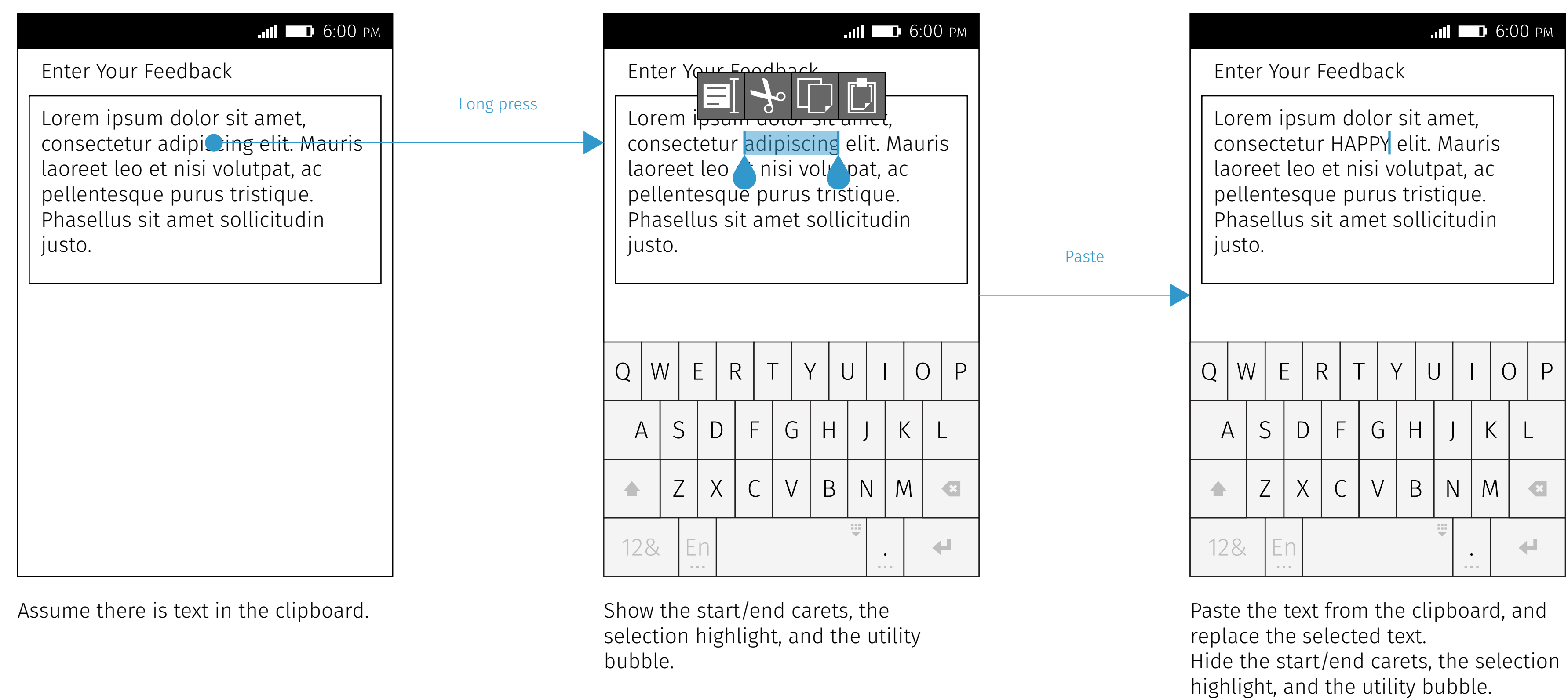
Show the start/end carets, the selection highlight, and the utility bubble.

Cut the selected text into clipboard. Hide the start/end carets, the selection highlight, and the utility bubble.

Use Paste Utility Bubble

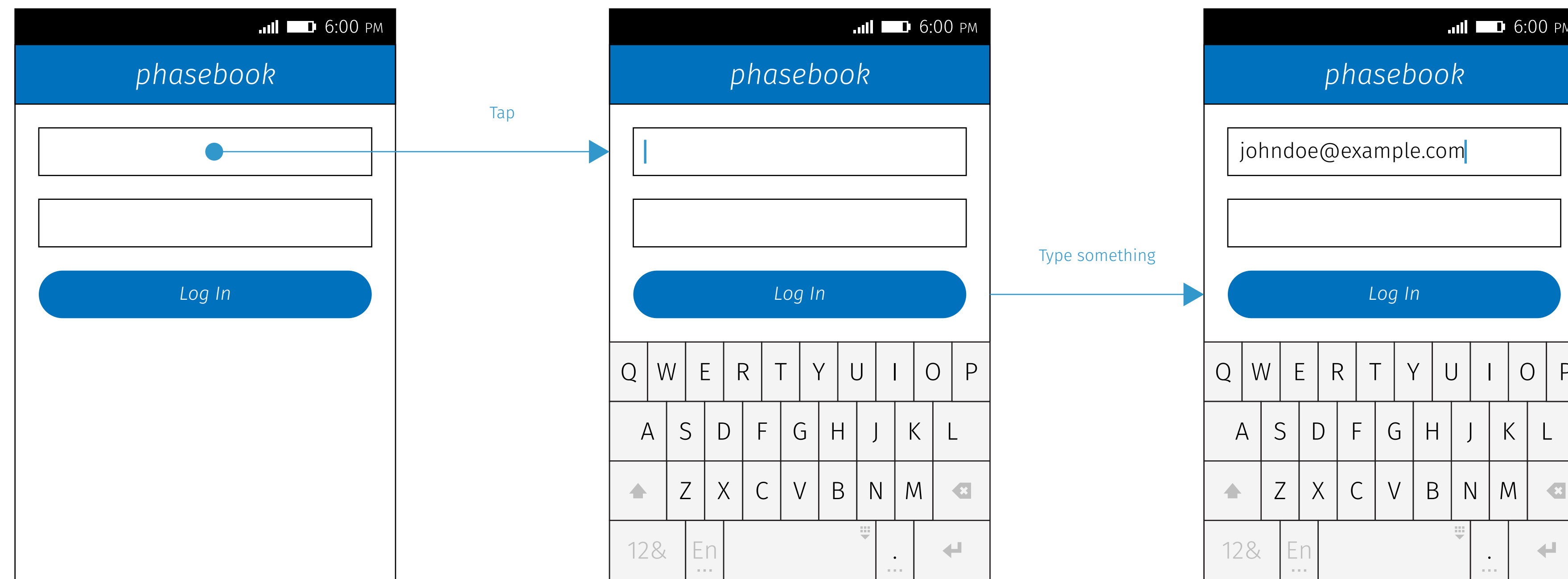


Use Full Utility Bubble



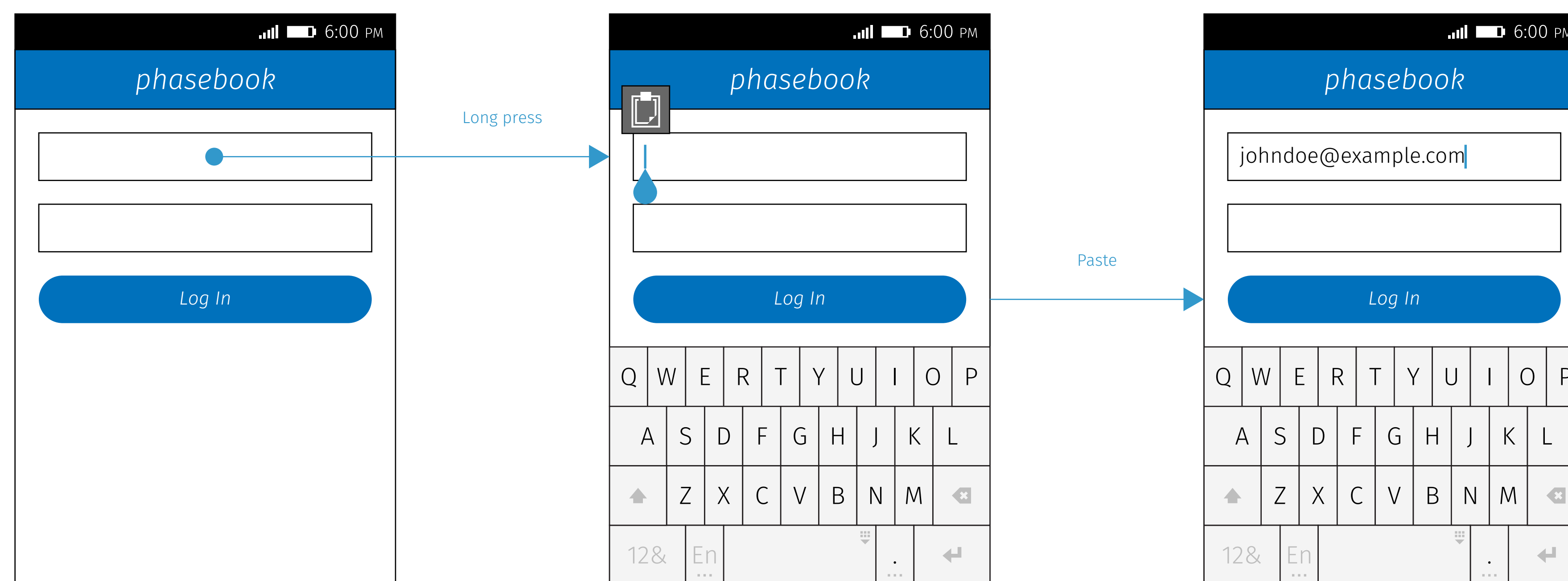
Empty Input

Focus & Type



When focusing on an empty input, show only the cursor without the caret.

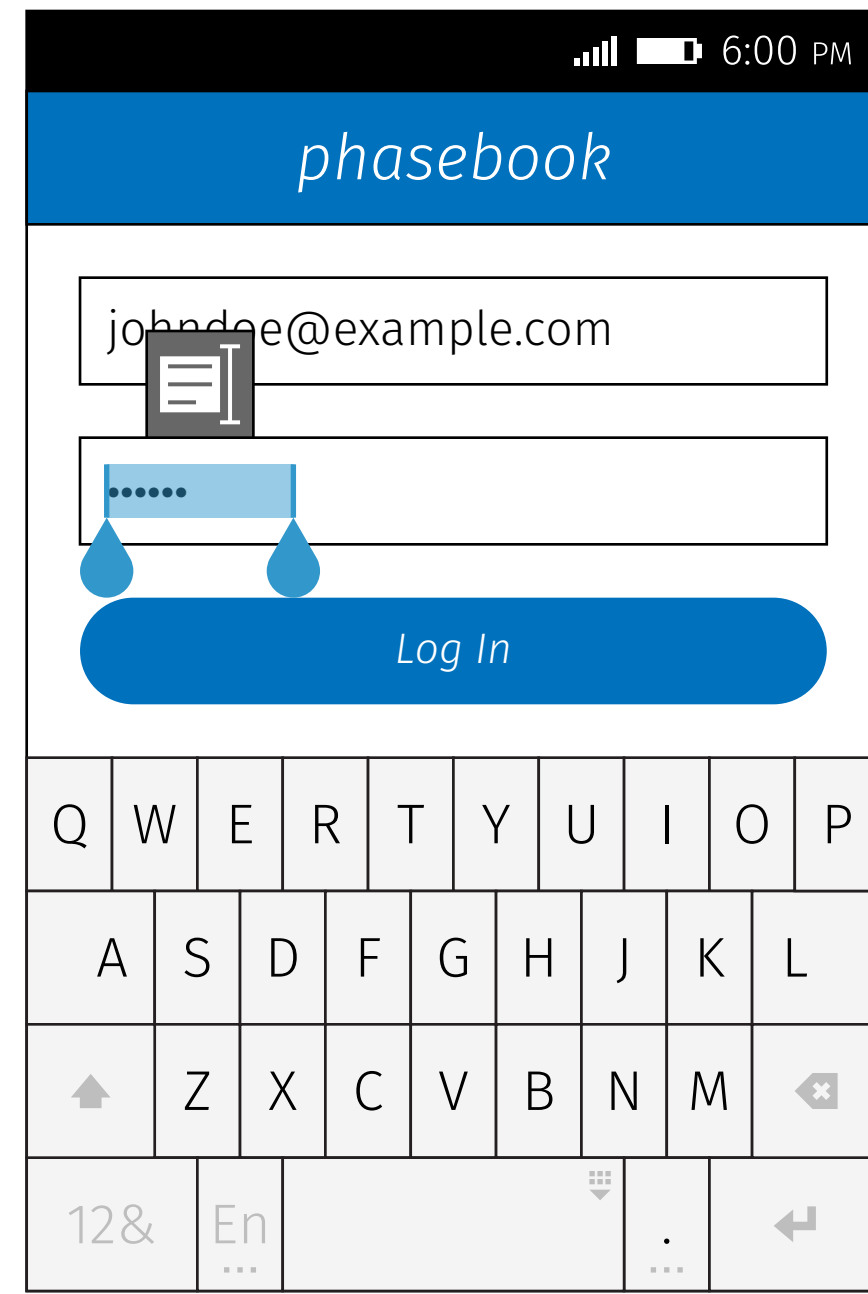
Paste



Assume there is text in the clipboard.

When long pressing on an empty input, show the caret and the utility bubble (Paste only).

Copy / Cut



User can do Select All, Cut, Copy, and Paste in a password input. However, when copying/cutting text from a password input, the text copied into clipboard will be "....." instead of the real password in this case.

Paste



Assume there is text in the clipboard.

Show the utility bubble (Paste only).

When pasting text into a password input, it should turn into a masked string like "....." immediately instead of showing an unmasked one like "moz123" first.

Dismiss Text Selection



Type something

Tap

Long press

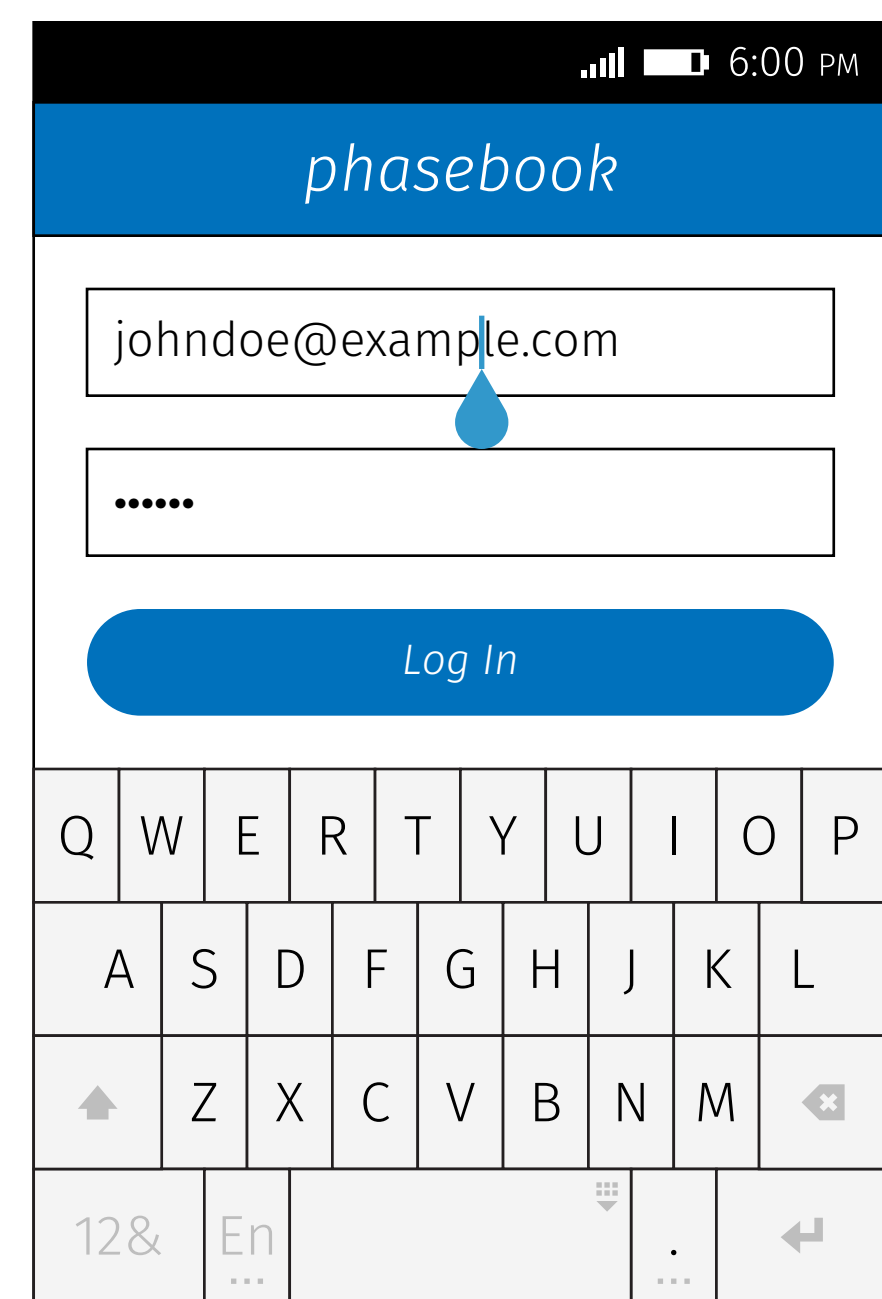
Tap

Tap The Same Input

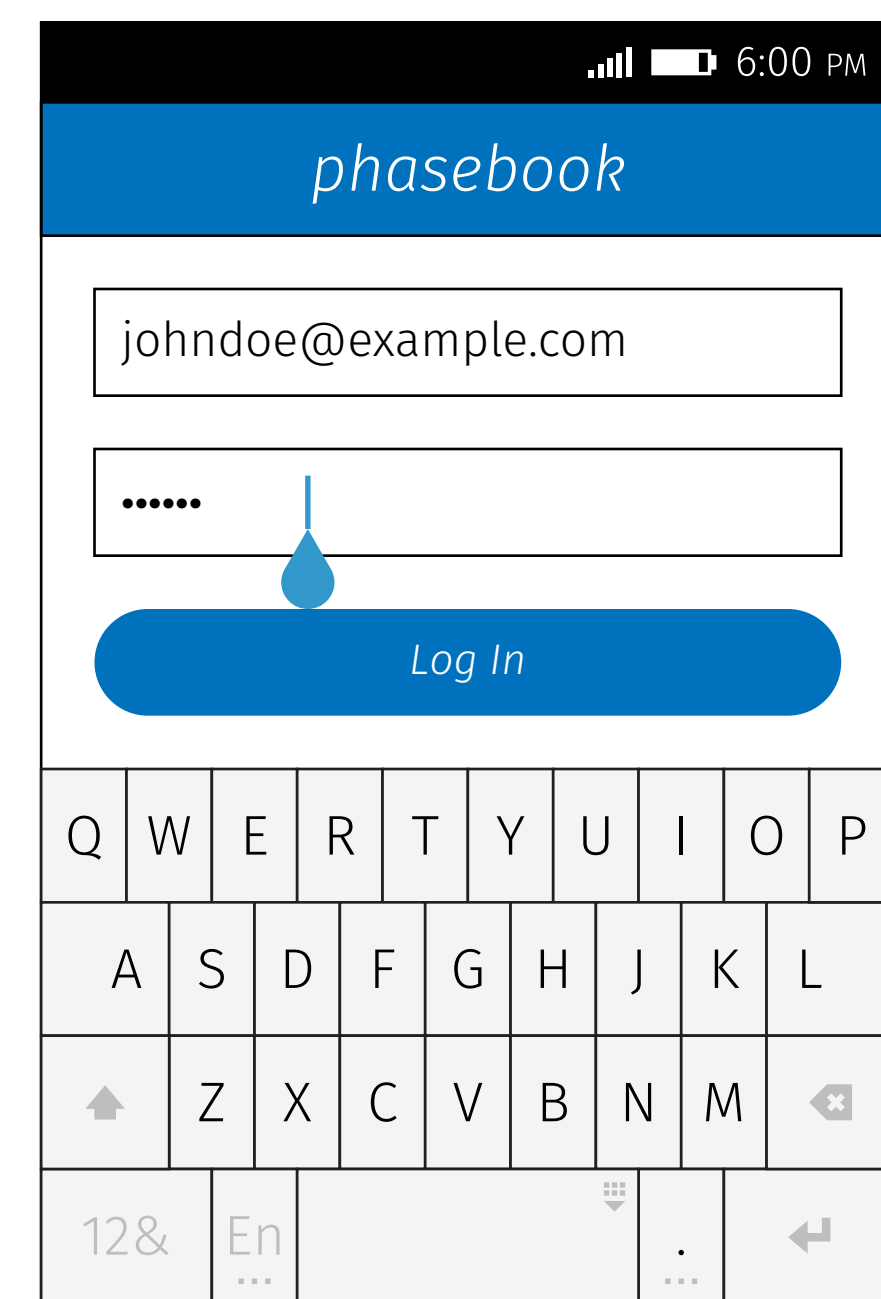
Tap Another Input

Type Something

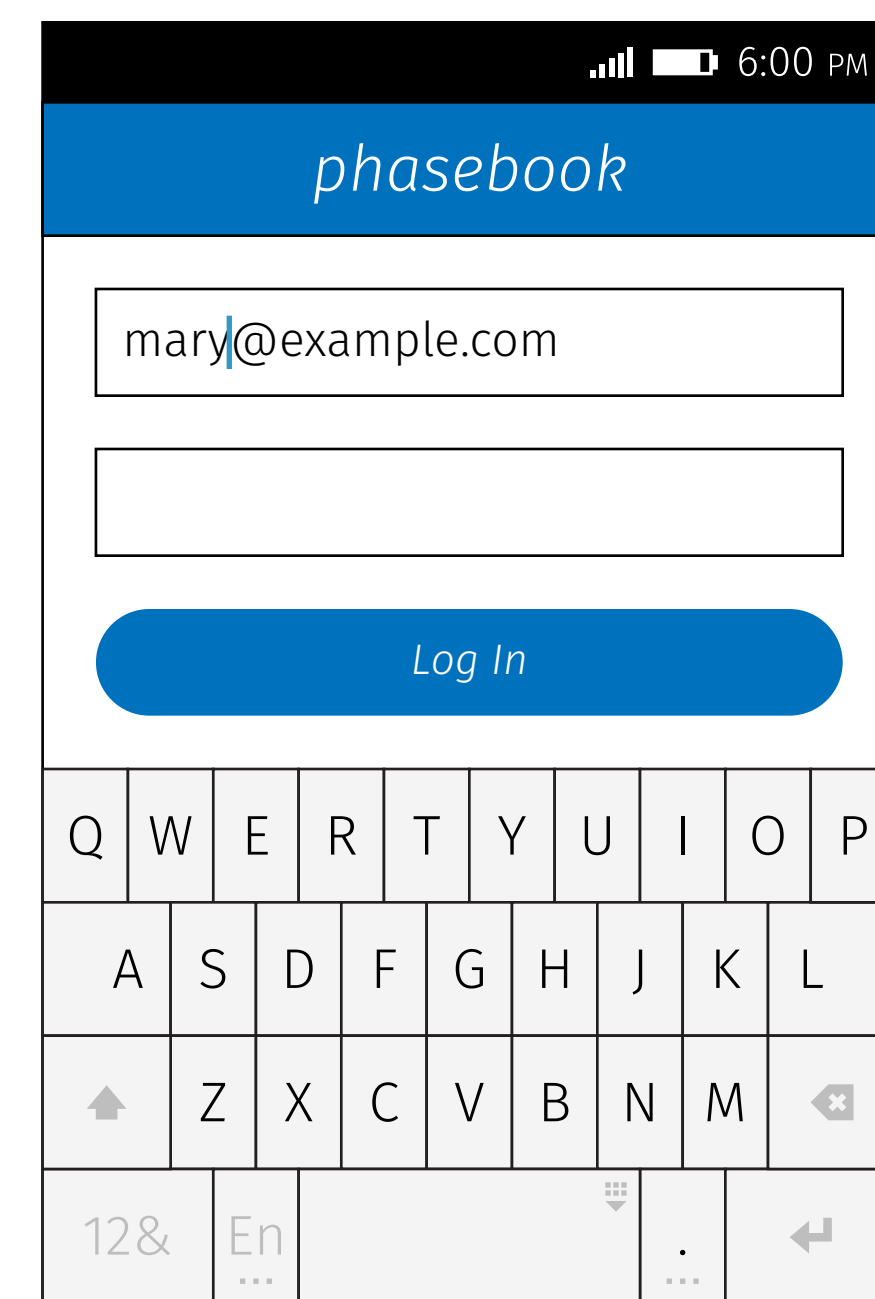
Dismiss Keyboard



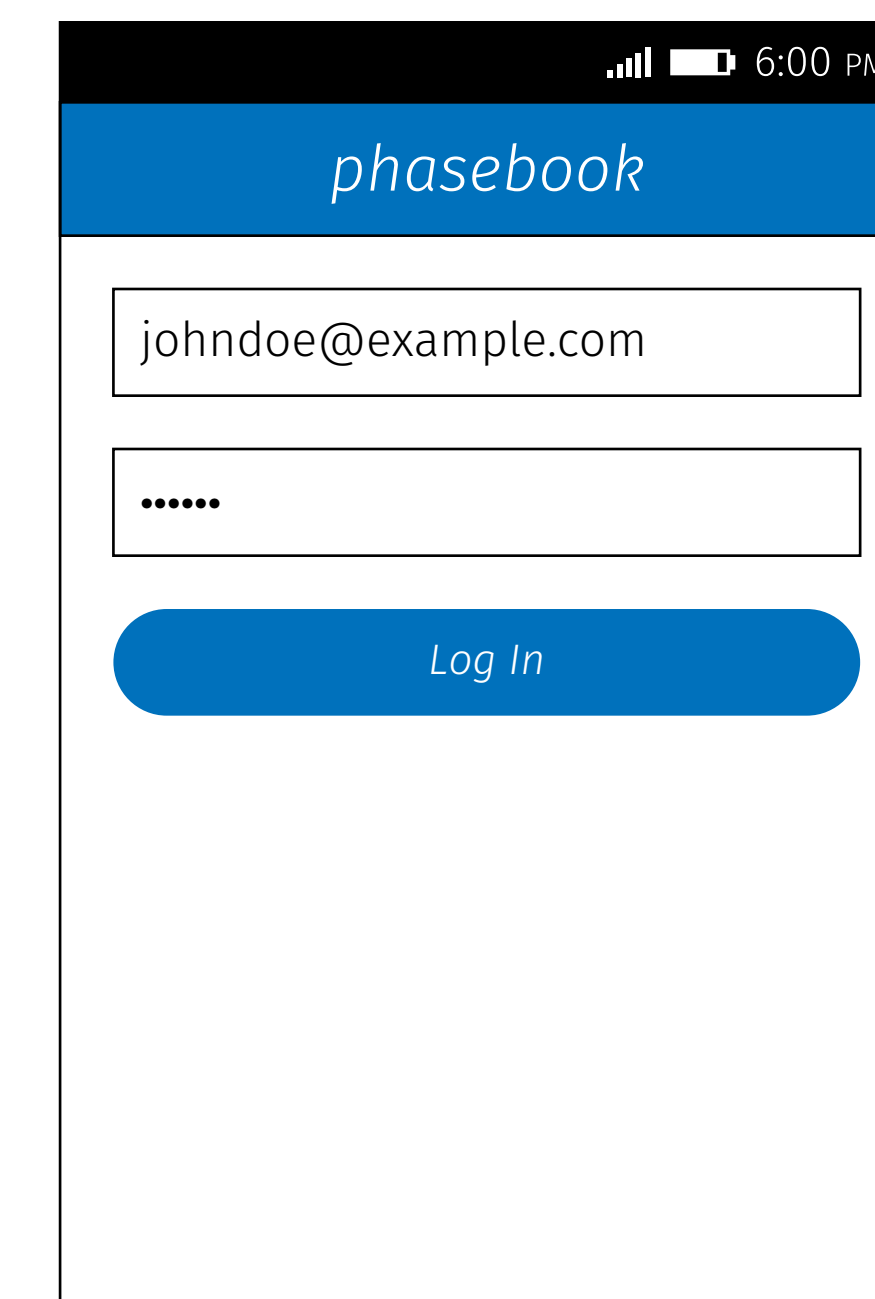
Show the cursor and the caret.



Show the cursor and the caret.

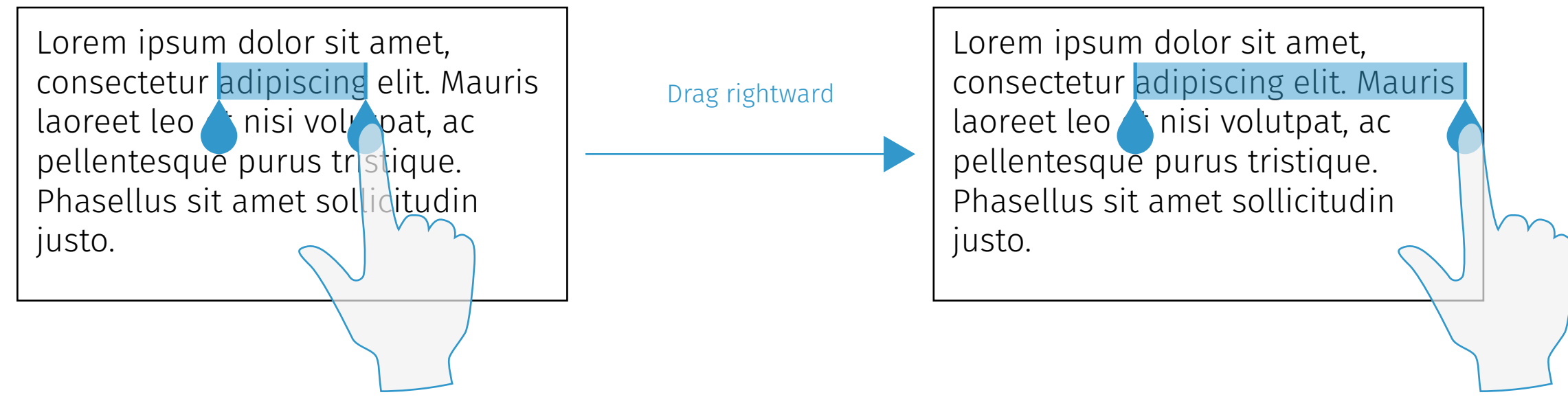


Show the cursor only.

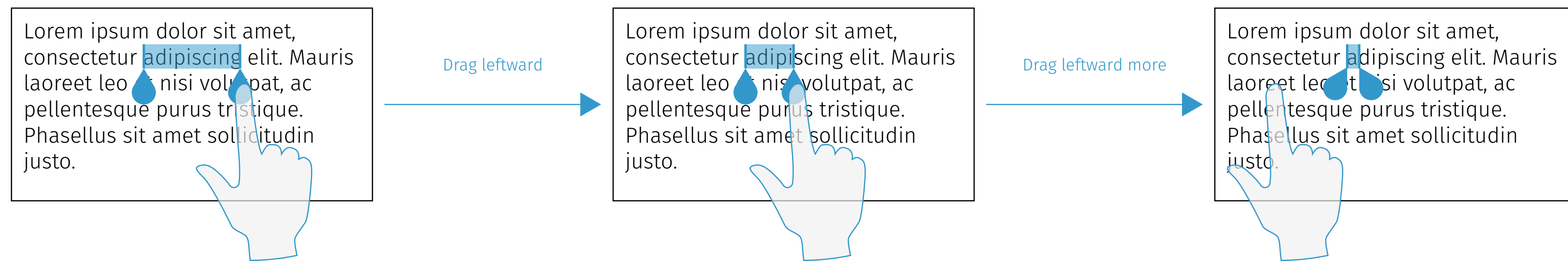


Blur from the input.

Dragging Rightward

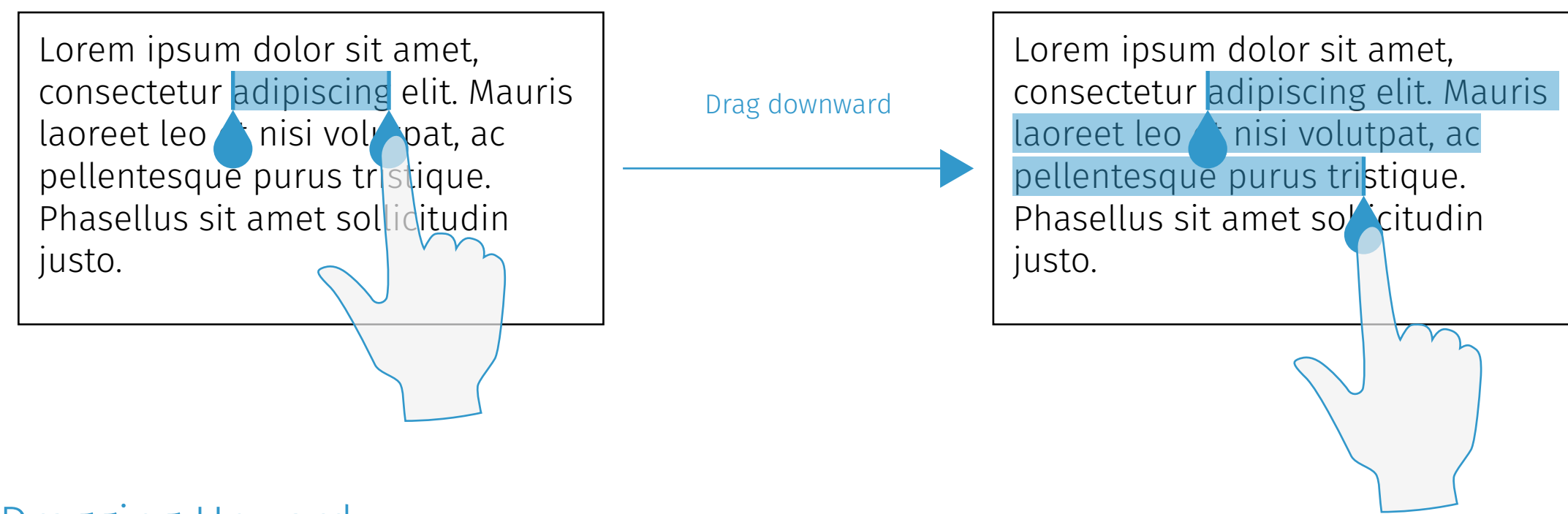


Dragging Leftward

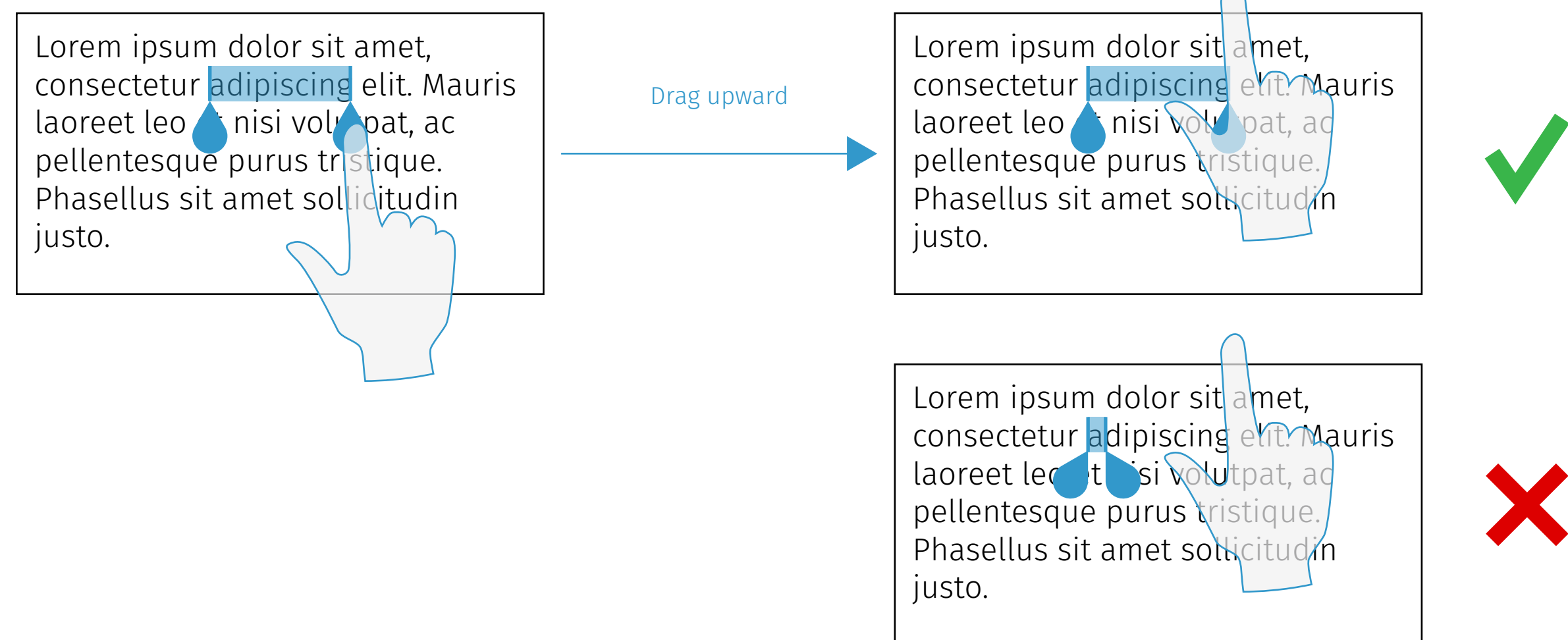


Carets can't cross each other.

Dragging Downward



Dragging Upward



1 Row

Lorem ipsum dolor sit amet,
consectetur adipiscing elit. Mauris
laoreet leo et nisi volutpat, ac
pellentesque purus tristique.
Phasellus sit amet sollicitudin
justo.



Lorem ipsum dolor sit amet,
consectetur adipiscing elit. Mauris
laoreet leo et nisi volutpat, ac
pellentesque purus tristique.
Phasellus sit amet sollicitudin
justo.



Carets should tilt if they overlap to each other. (No matter how many characters are selected.)

2 Or More Rows

$x_1 \leq x_2$

Lorem ipsum dolor sit amet,
consectetur adipiscing elit. Mauris
laoreet leo et nisi volutpat, ac
pellentesque purus tristique.
Phasellus sit amet sollicitudin
justo.



Lorem ipsum dolor sit amet,
consectetur adipiscing elit. Mauris
laoreet leo et nisi volutpat, ac
pellentesque purus tristique.
Phasellus sit amet sollicitudin
justo.



Carets should tilt if they overlap to each other.

$x_1 > x_2$

Lorem ipsum dolor sit amet,
consectetur adipiscing elit. Mauris
laoreet leo et nisi volutpat, ac
pellentesque purus tristique.
Phasellus sit amet sollicitudin
justo.



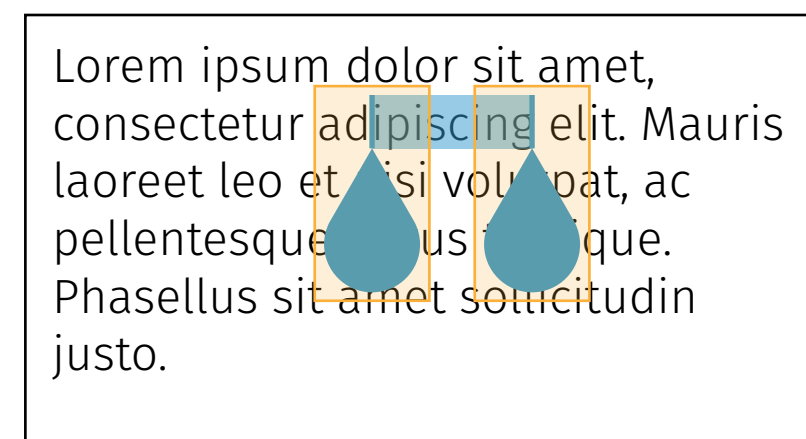
Lorem ipsum dolor sit amet,
consectetur adipiscing elit. Mauris
laoreet leo et nisi volutpat, ac
pellentesque purus tristique.
Phasellus sit amet sollicitudin
justo.



Carets should tilt if they overlap to each other. They should tilt the opposite directions when $x_1 > x_2$.

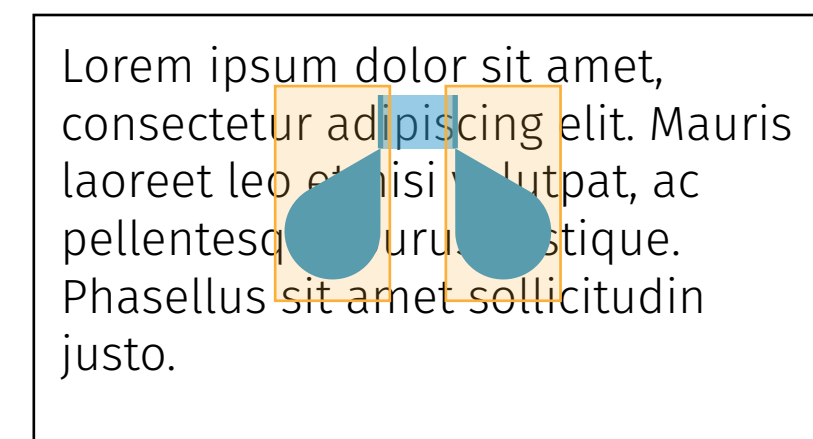
Caret > Touch Area

Normal

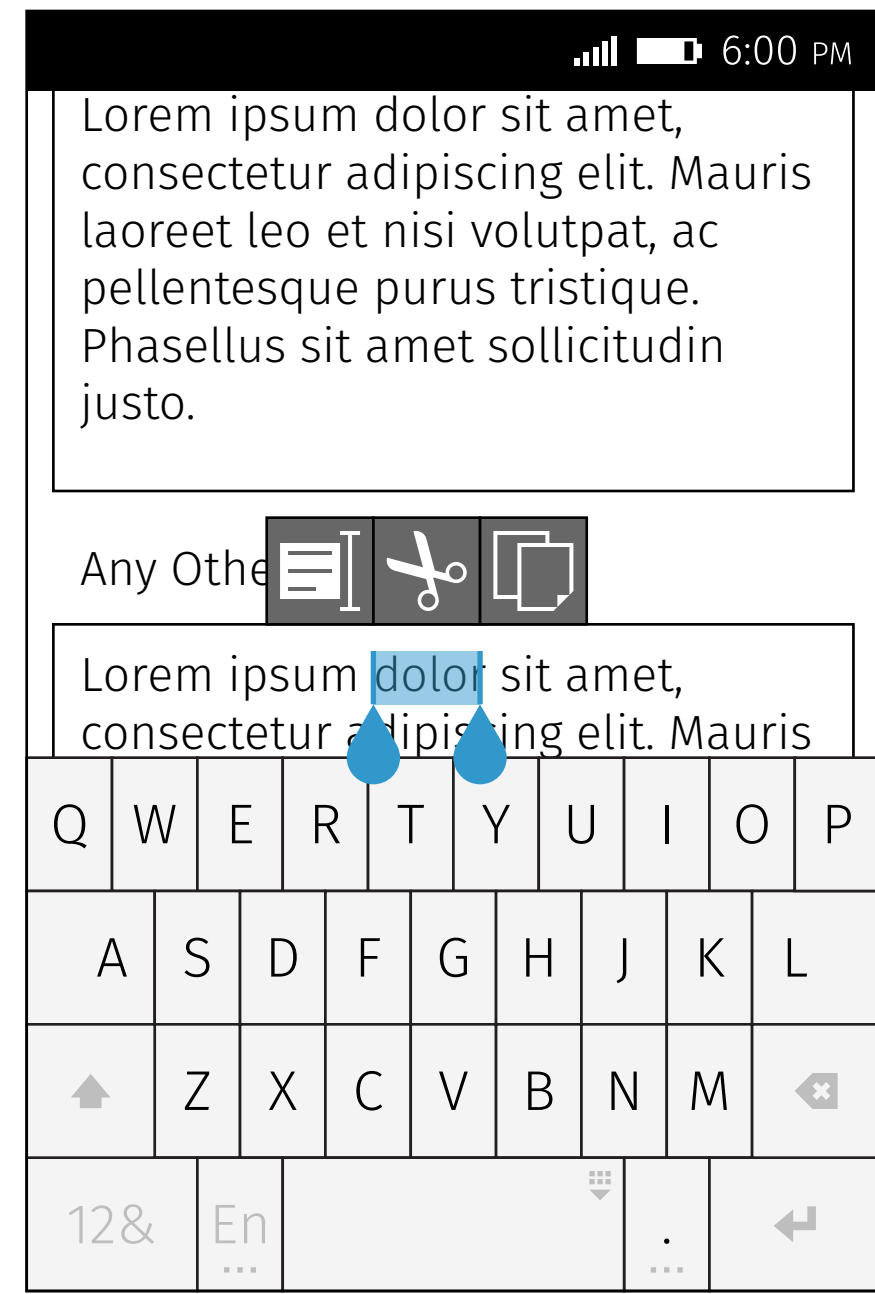


The touch area of each caret should contain the cursor (bar) and the caret (water drop).

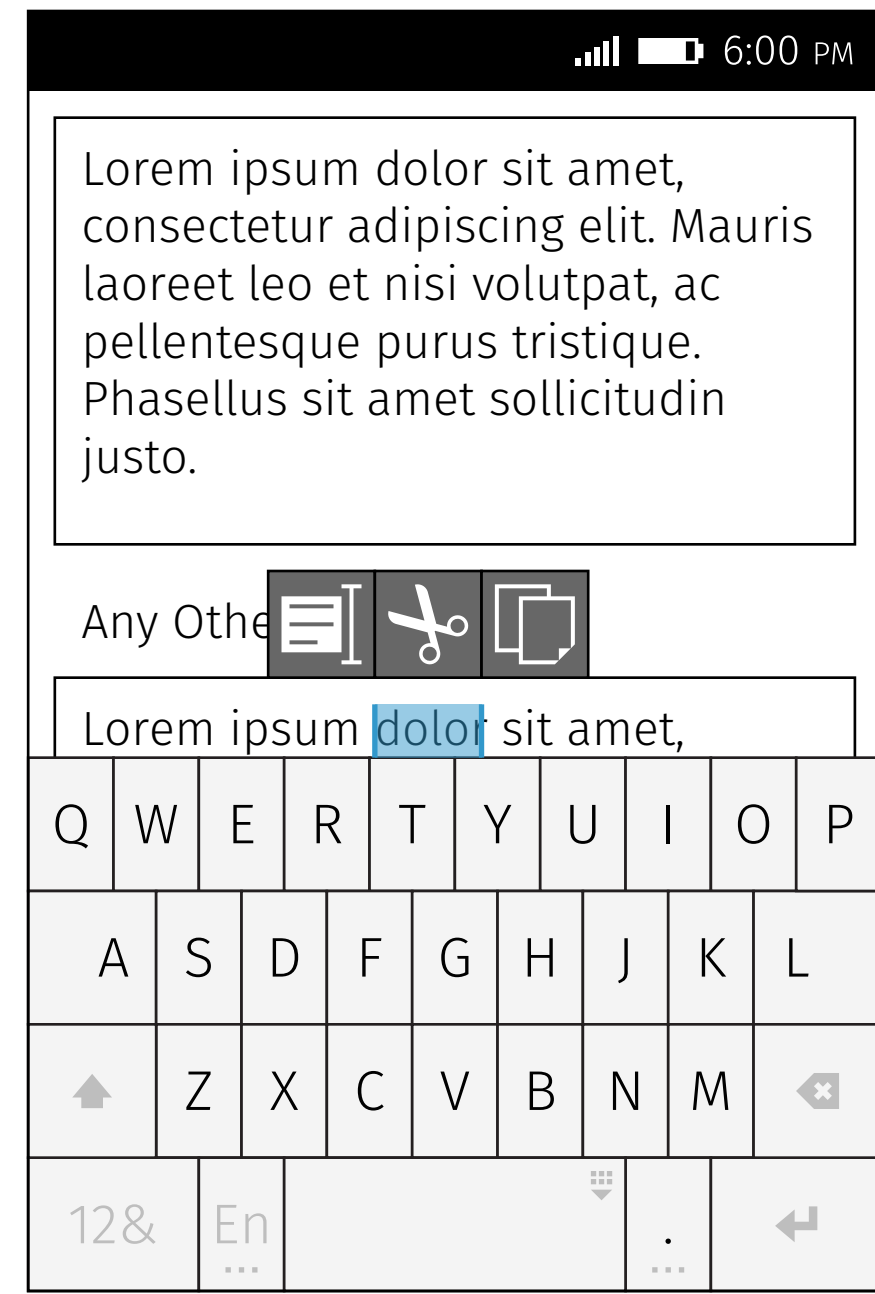
Tilt



The touch area of each caret should contain the cursor (bar) and the caret (water drop).



The carets will overlay keyboard and its suggestion bar.



Hide the carets if they are completely out of the display area.

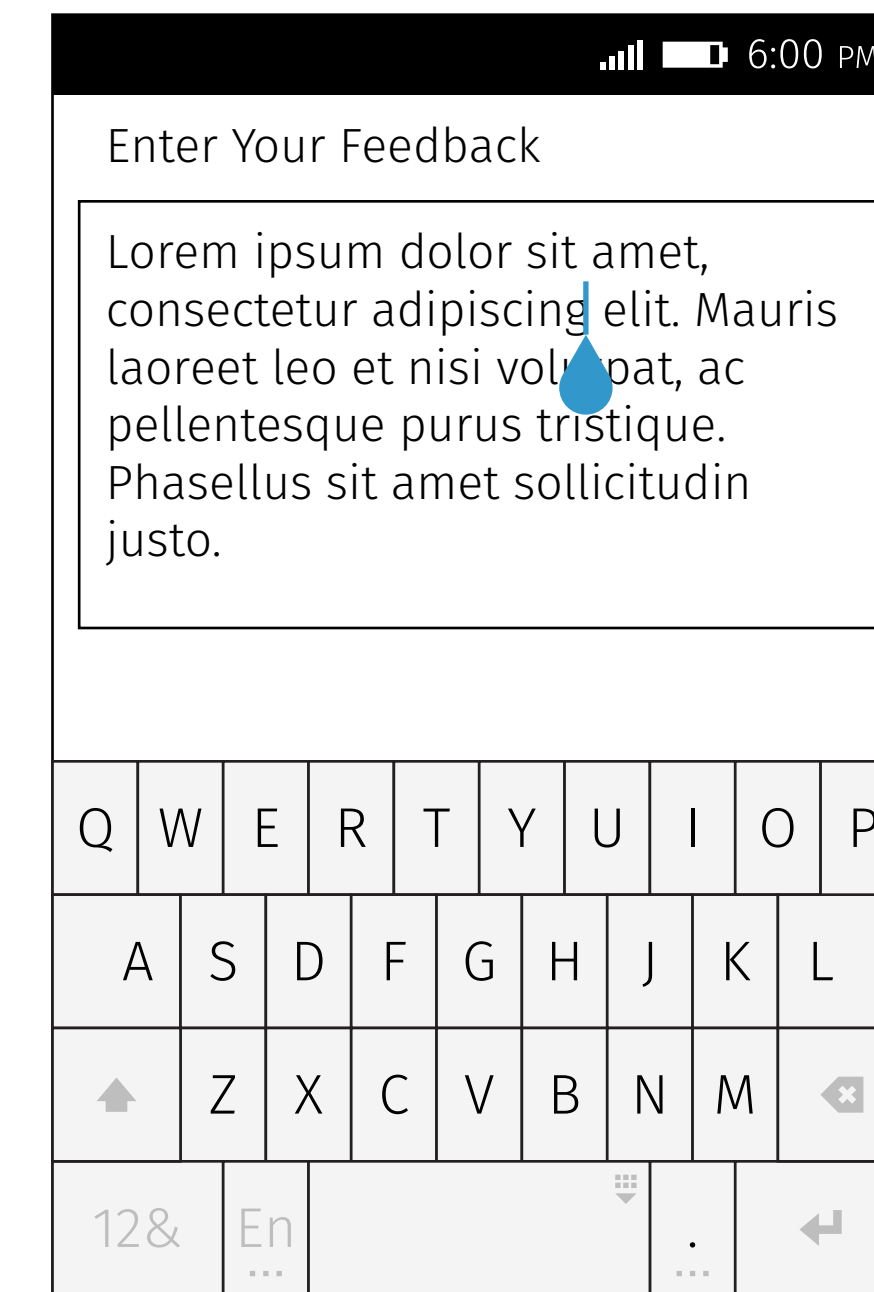
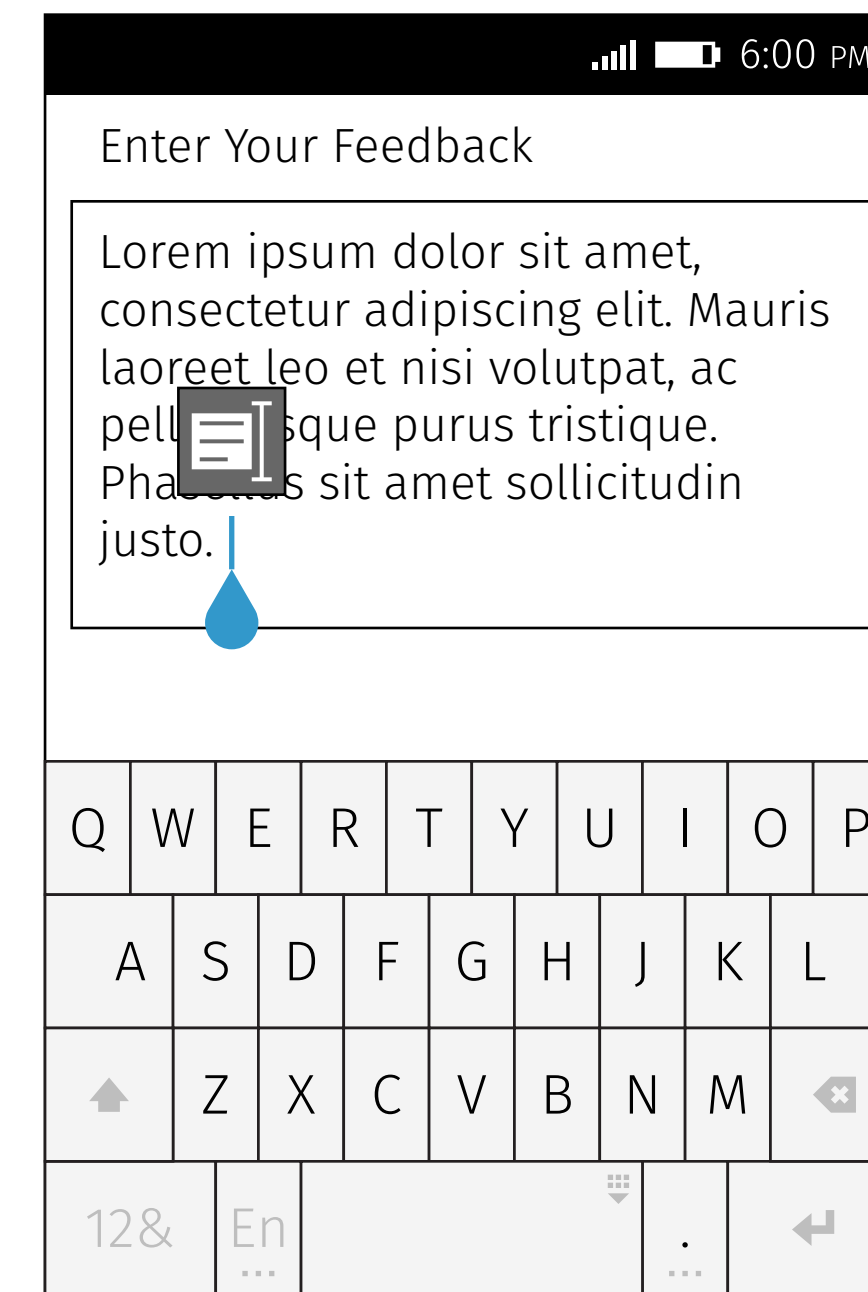
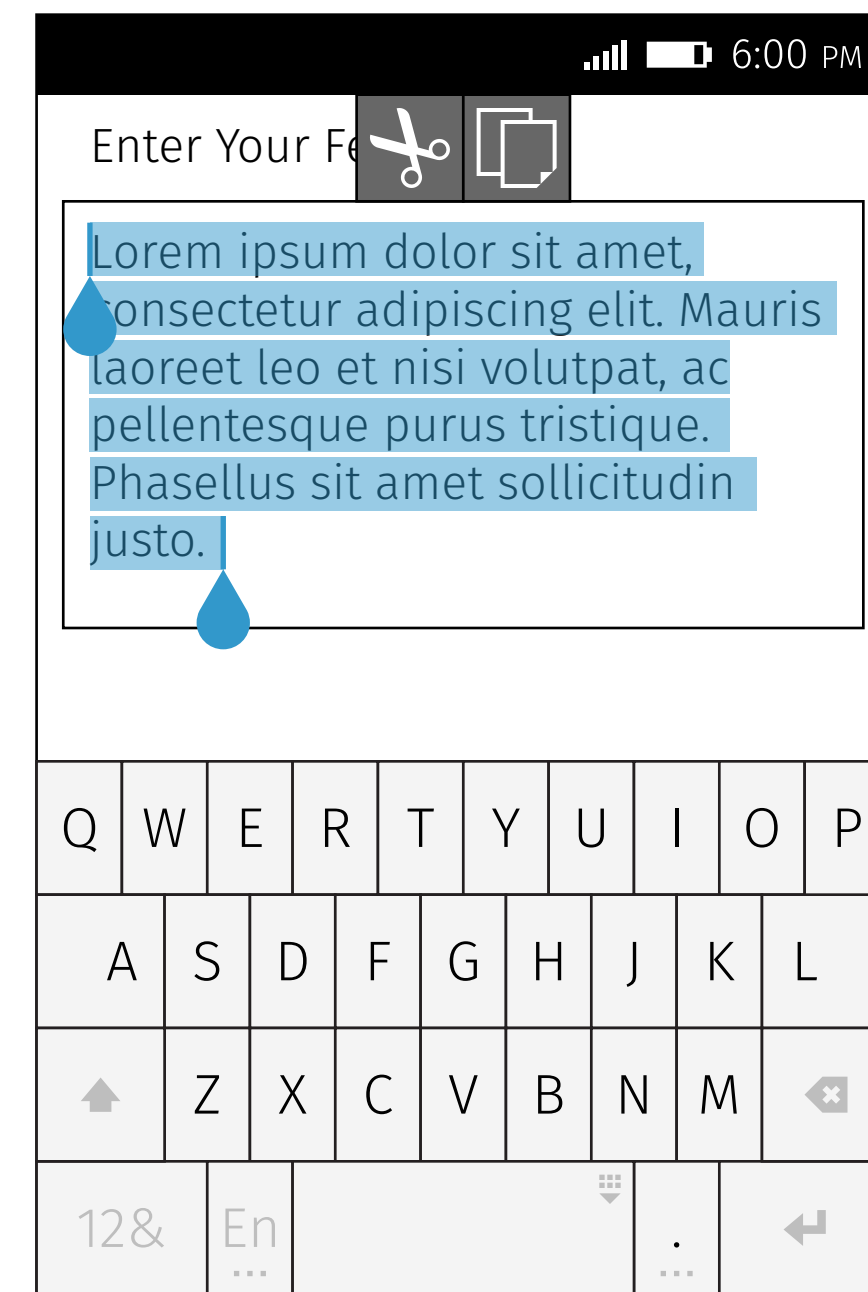
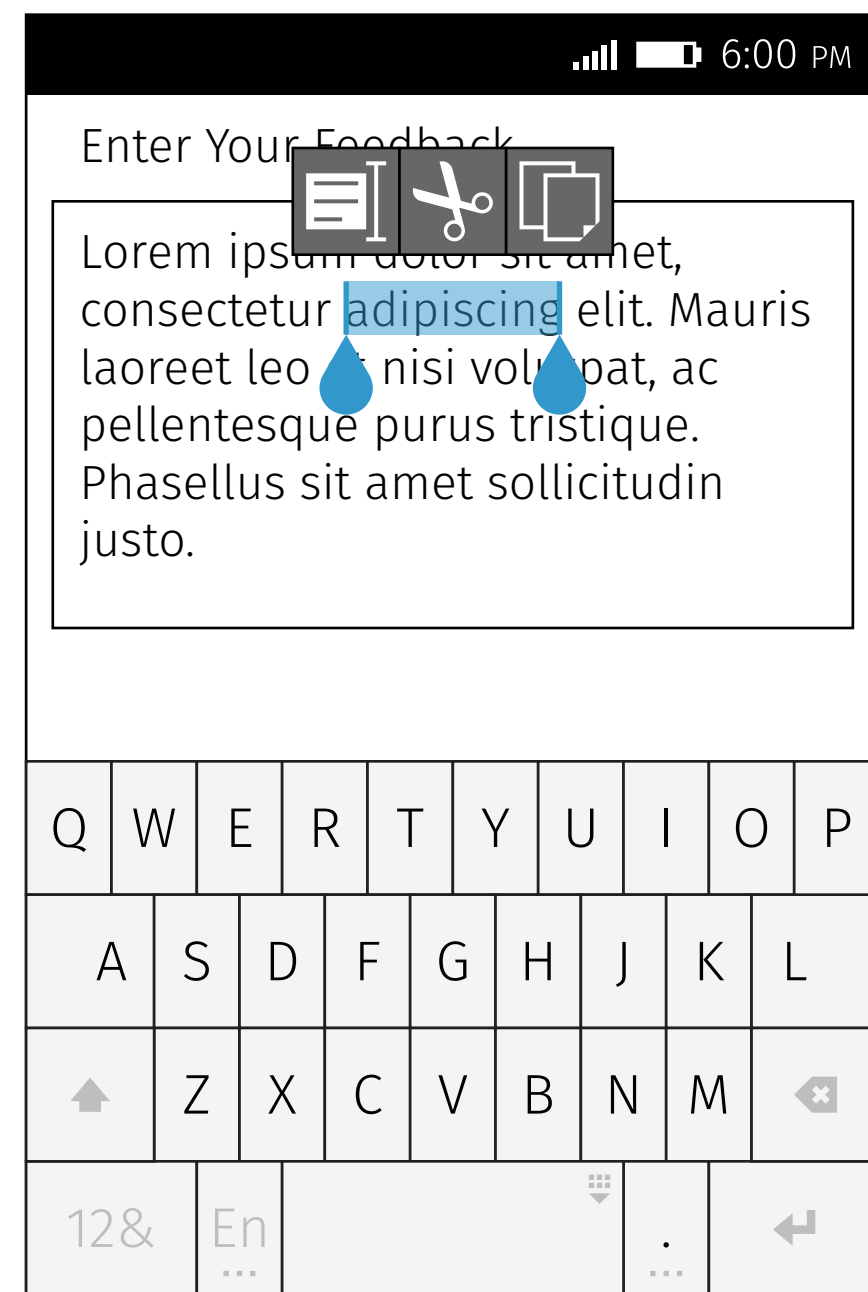
Text Selected

All Text Selected

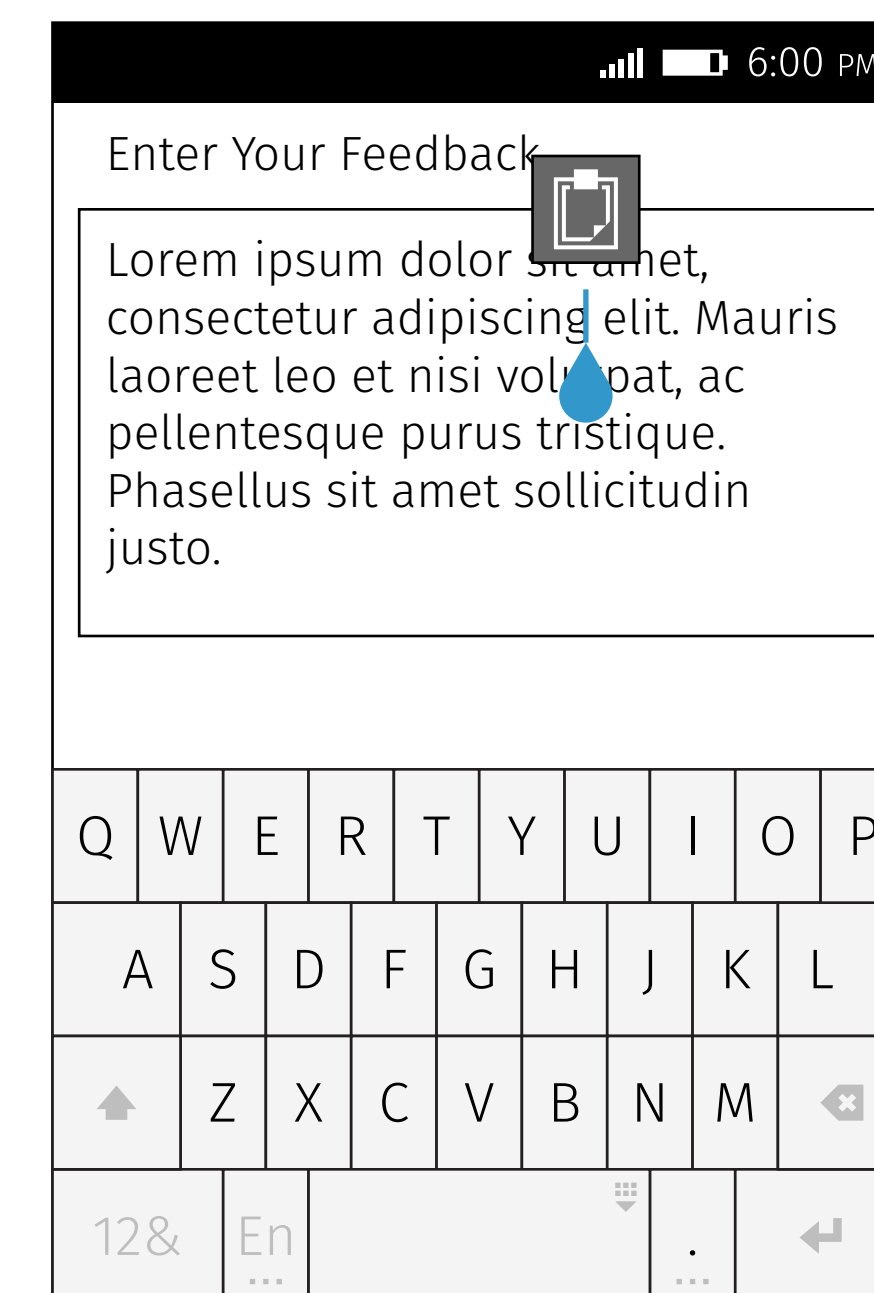
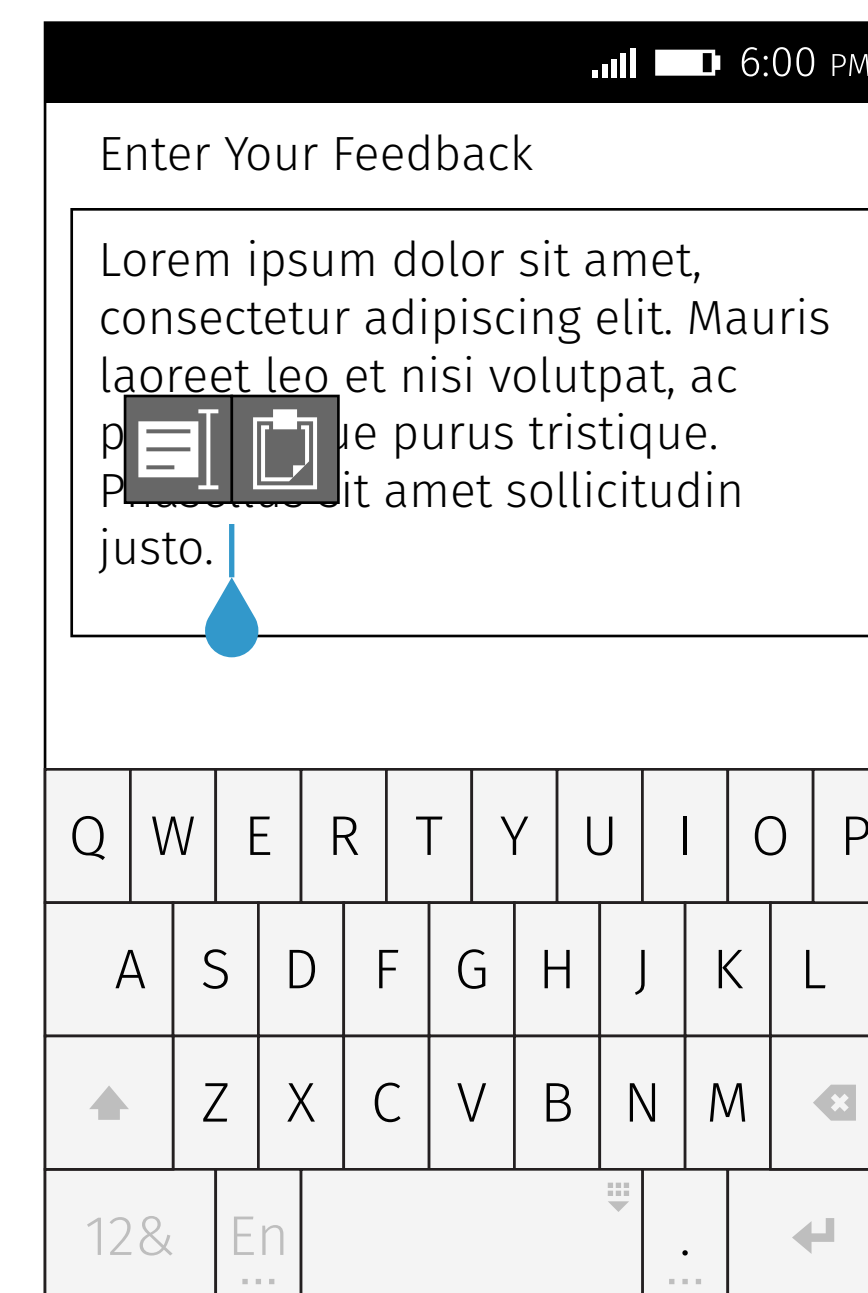
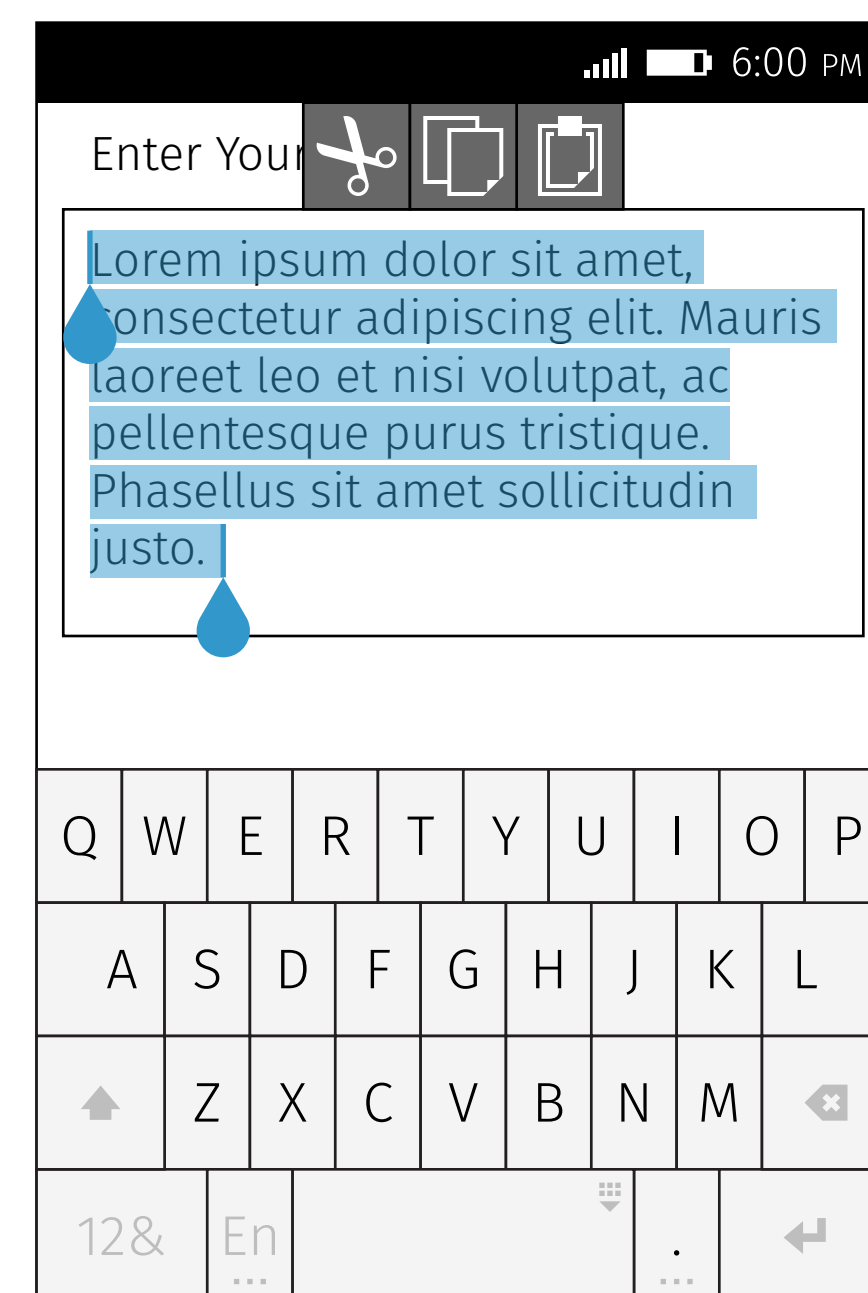
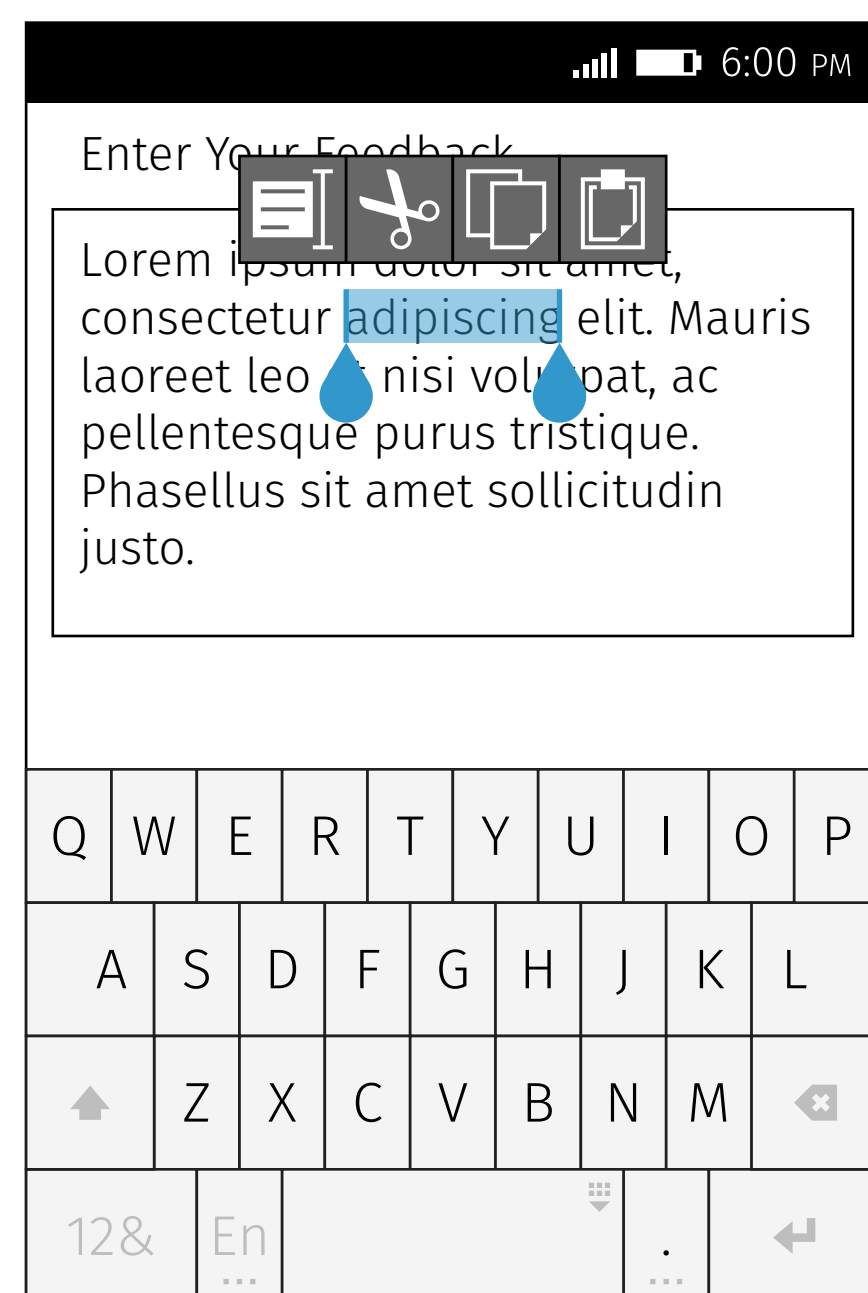
Long Press on Empty Area

Paste Utility Bubble
(Paste shortcut/ Tap on caret/
Long press on empty input)

Clipboard is empty

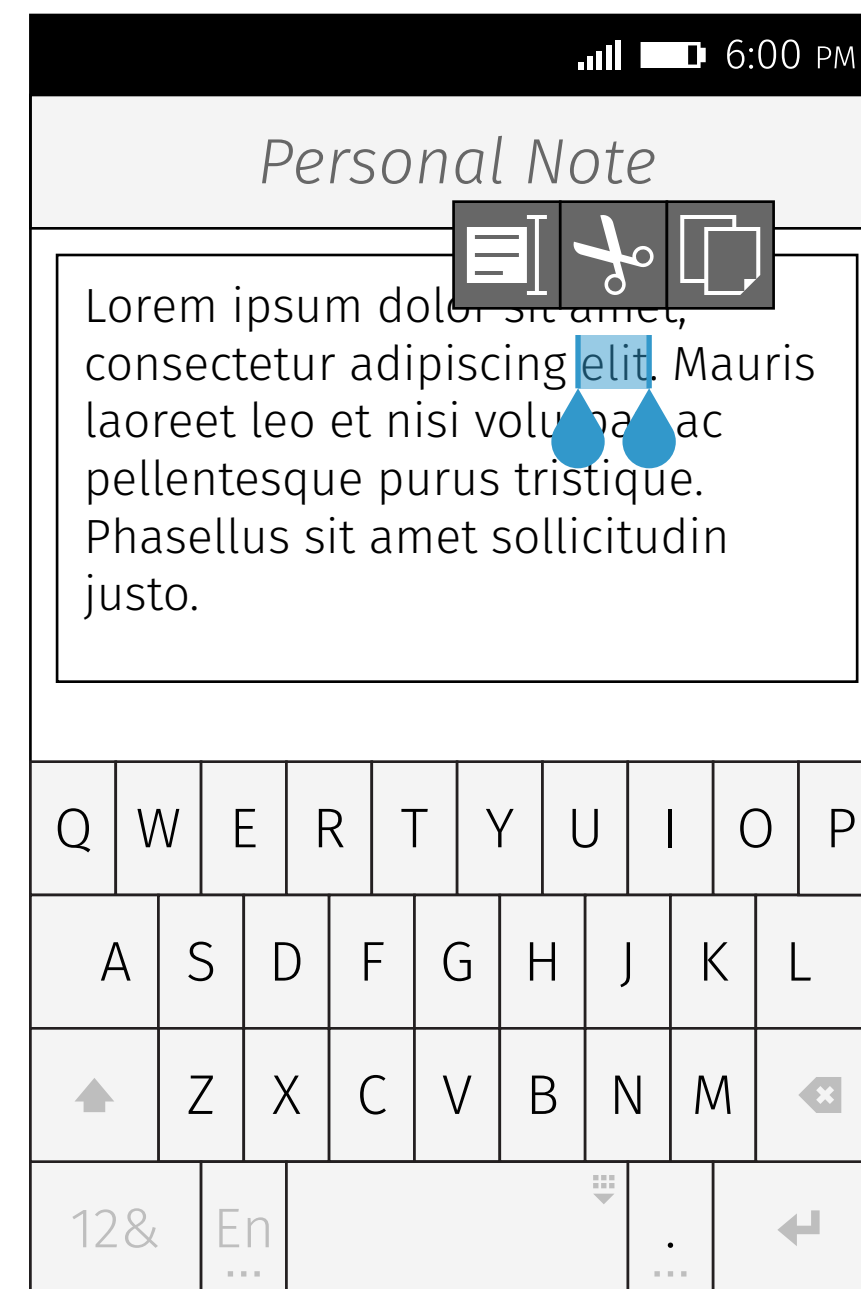


Clipboard has text



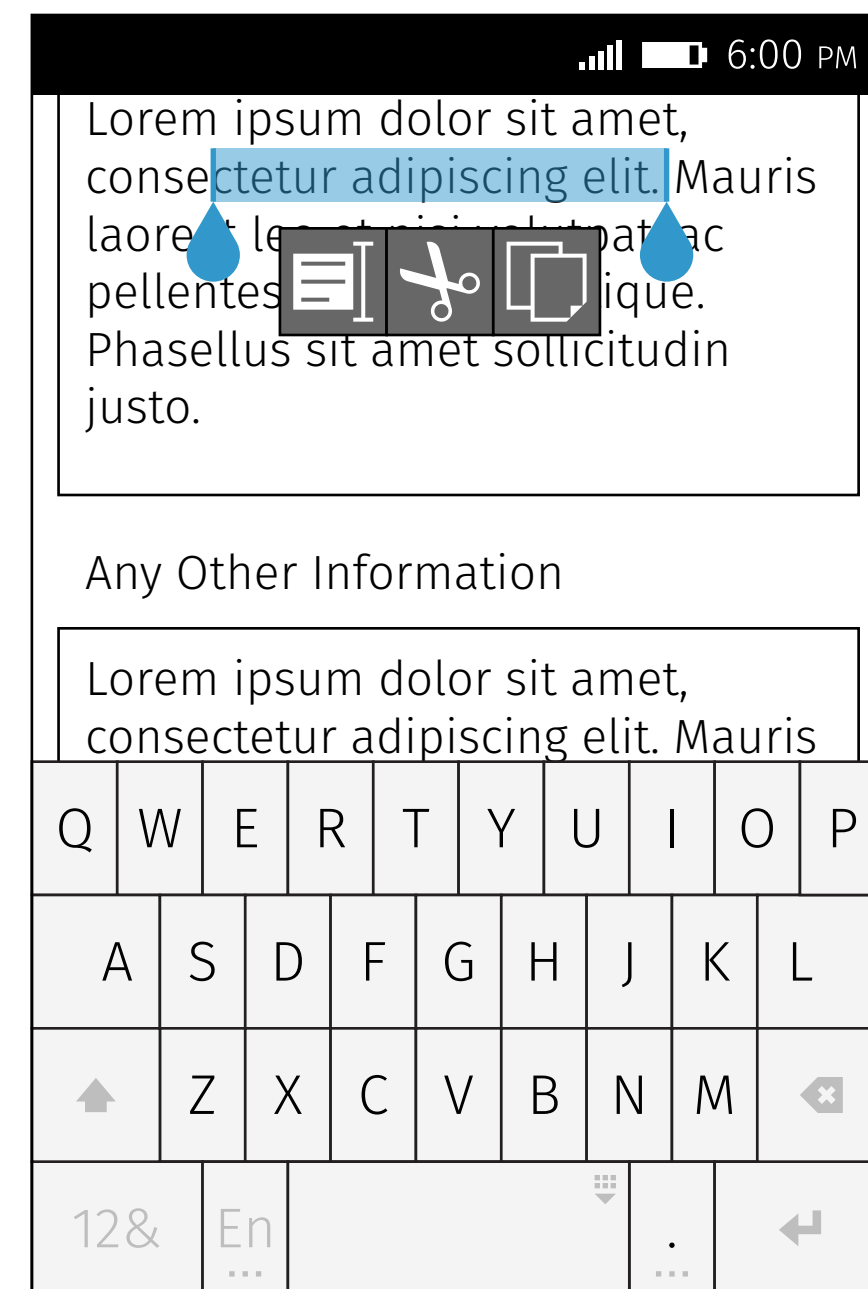
Utility Bubble > Position

Normal



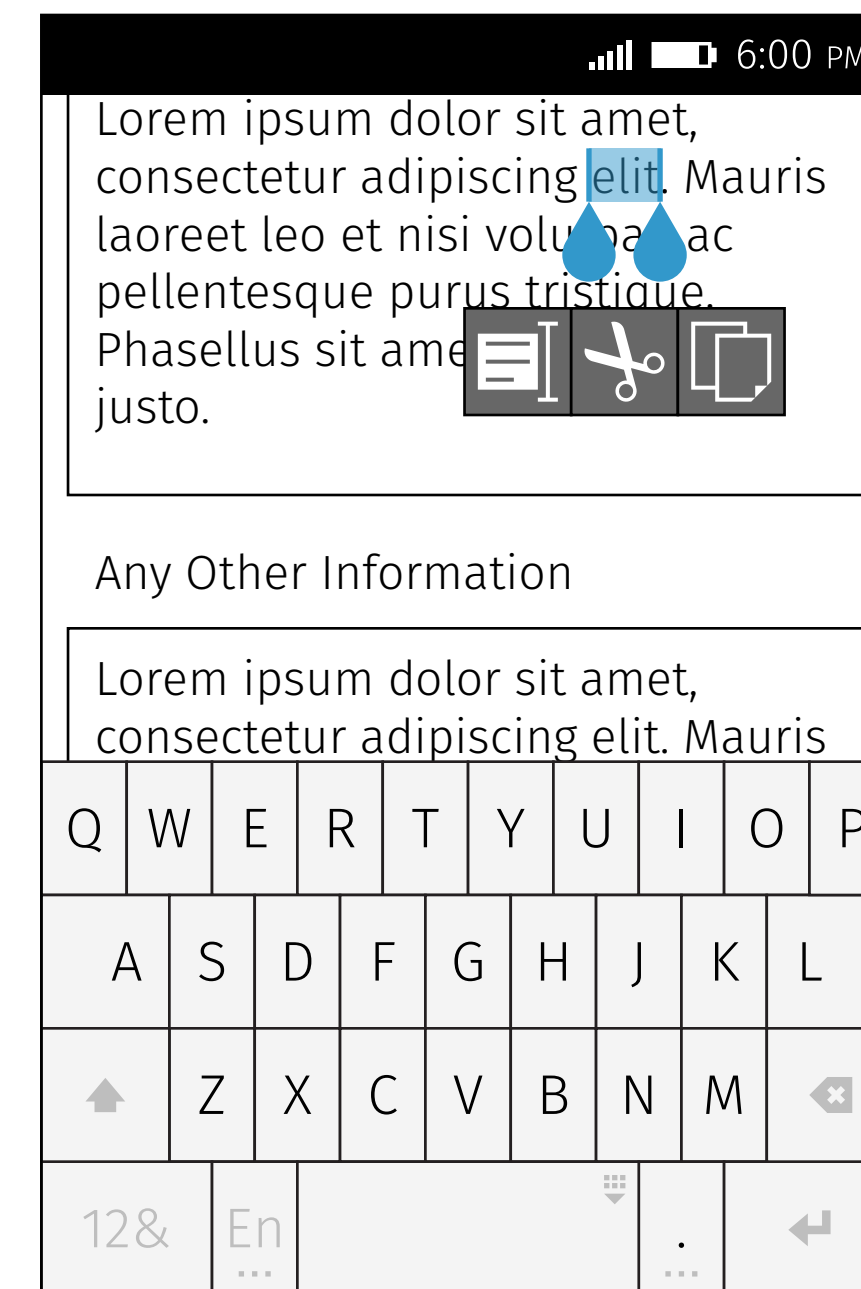
Normally, the utility bubble is center aligned horizontally to and above the selected text. The utility bubble can overlay the header.

No Space Above, enough space between carets



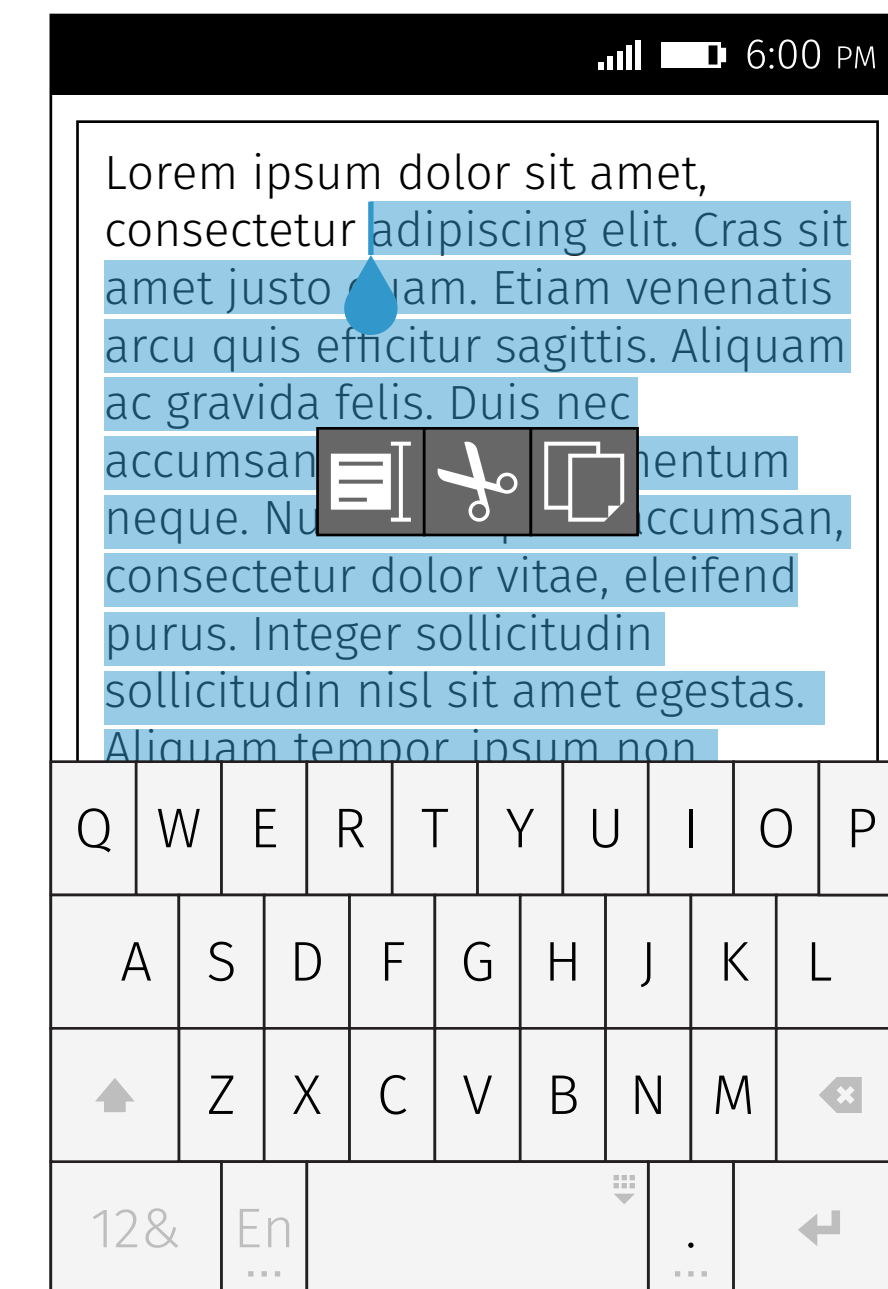
If there is no space above the selected text, but enough space between carets, show the utility bubble underneath the selected text between carets.

No Space Above, no Space between carets



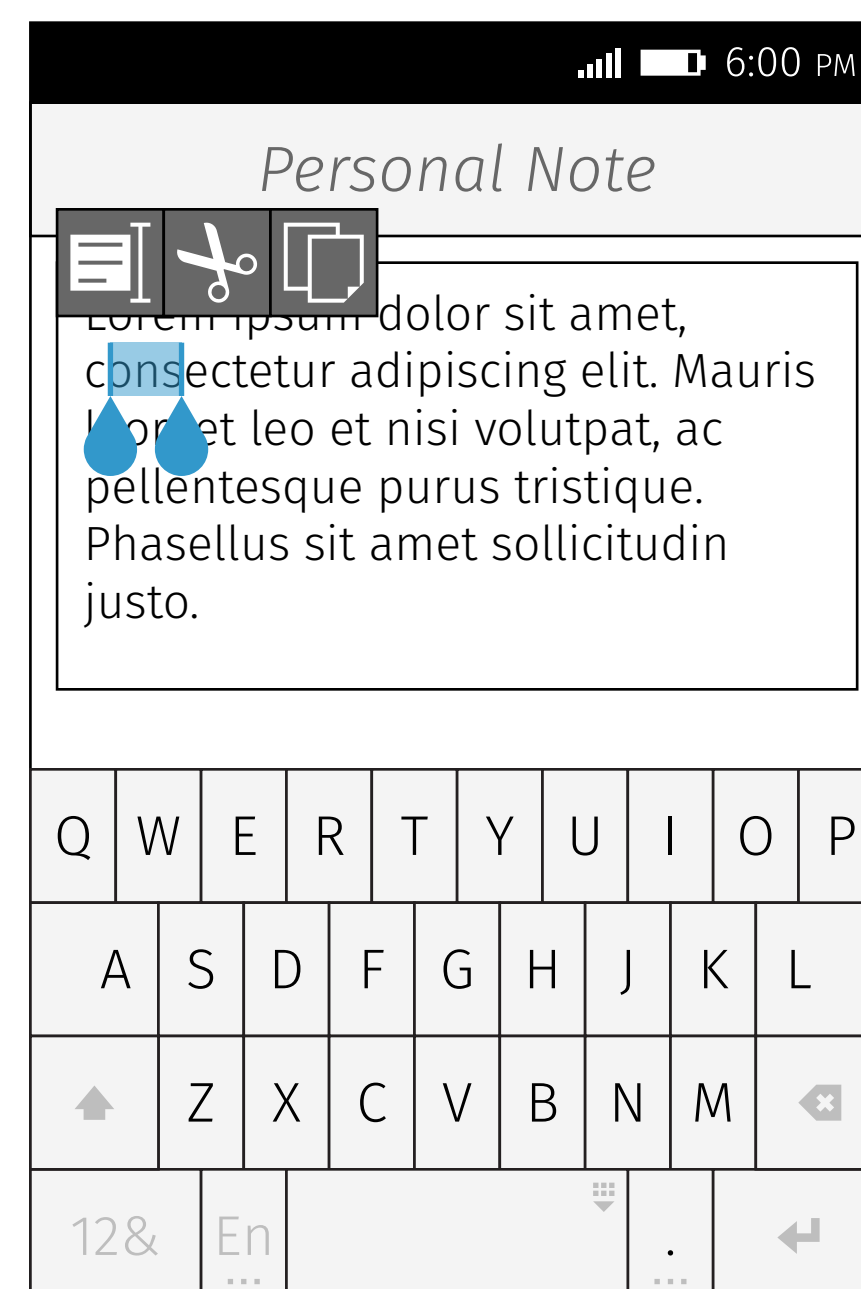
If there is no space above the selected text and between carets, show the utility bubble underneath the selected text and carets.

No Space Above & Underneath



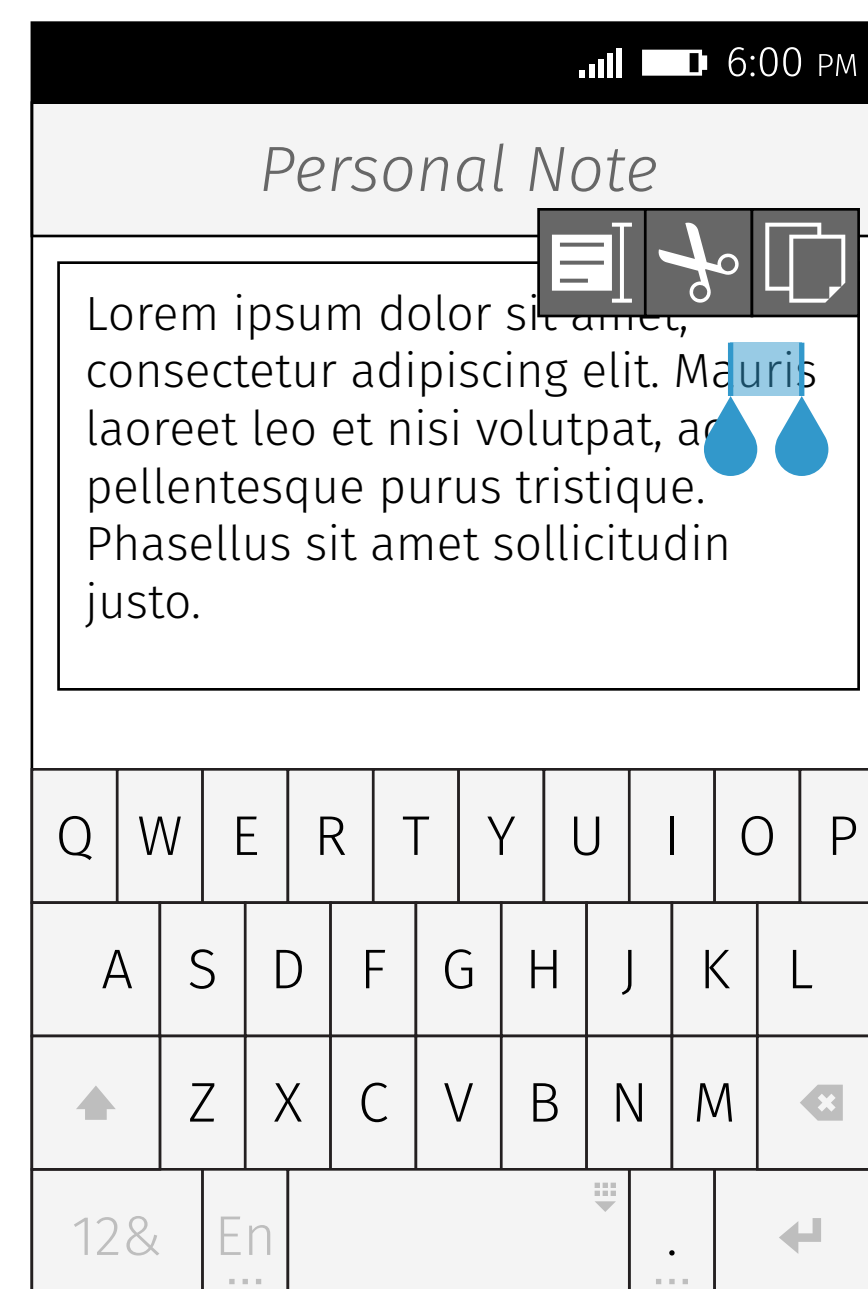
If there is no space above and underneath, vertically center align the utility bubble with the selected text.

No Space At Left Side

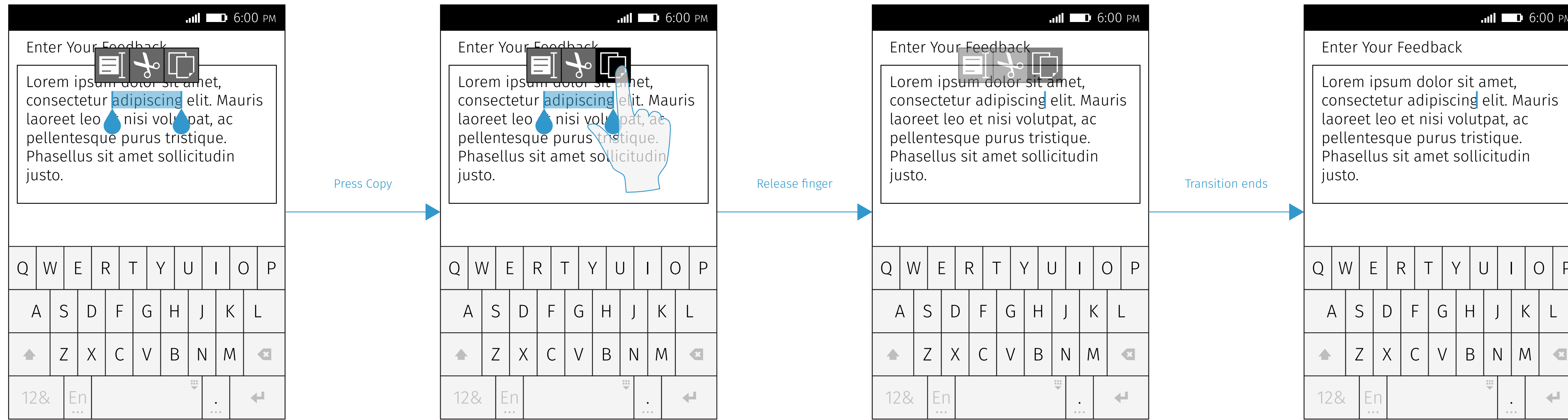


If there is no space at the left side of the selected text, constrain the left of the utility bubble within the screen.

No Space At Right Side



If there is no space at the right side of the selected text, constrain the right of the utility bubble within the screen.



Press Copy

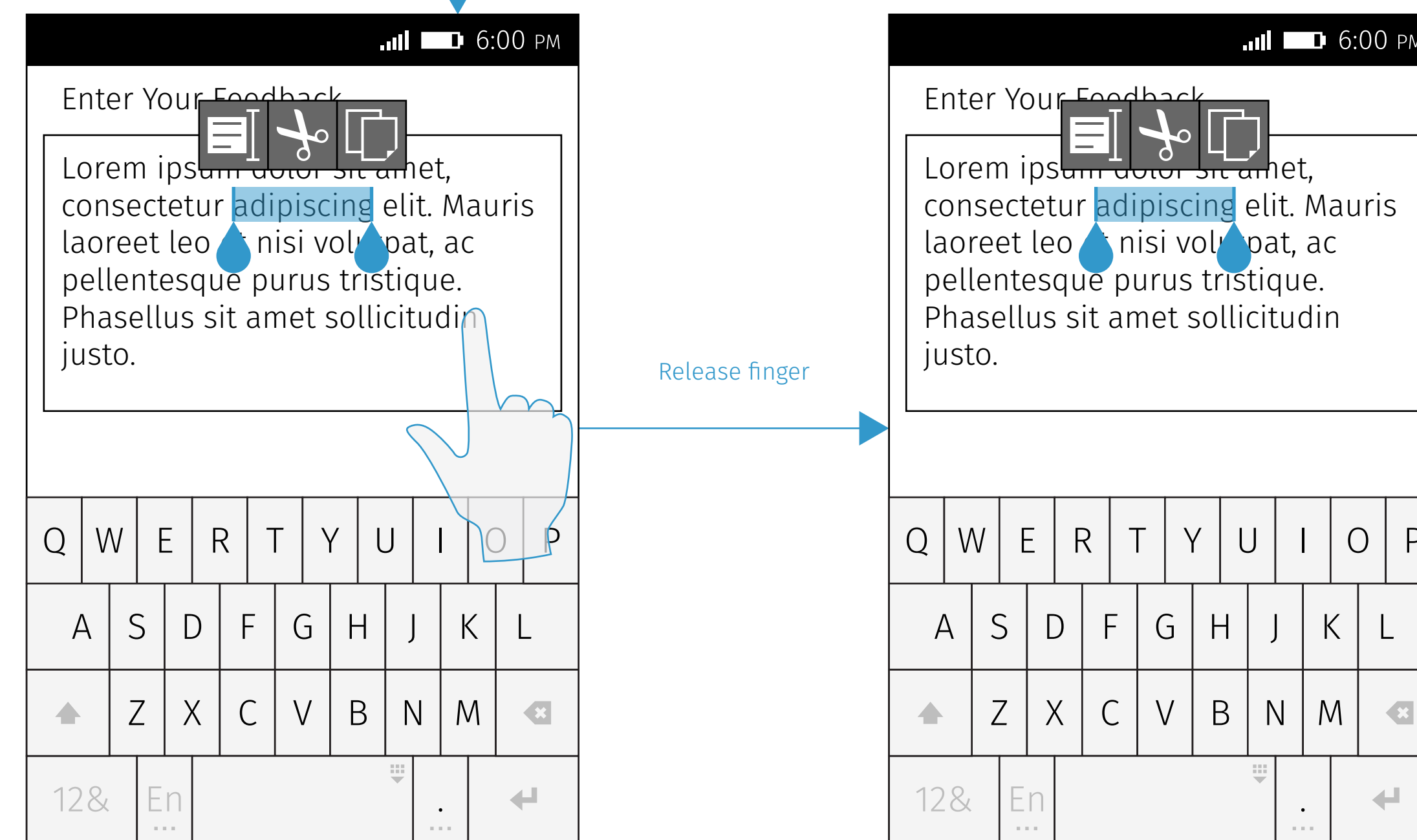
Release finger

Transition ends

The pressed button should change to pressed state.

Do Copy action, run the utility bubble dismiss transition, and deselect the text.

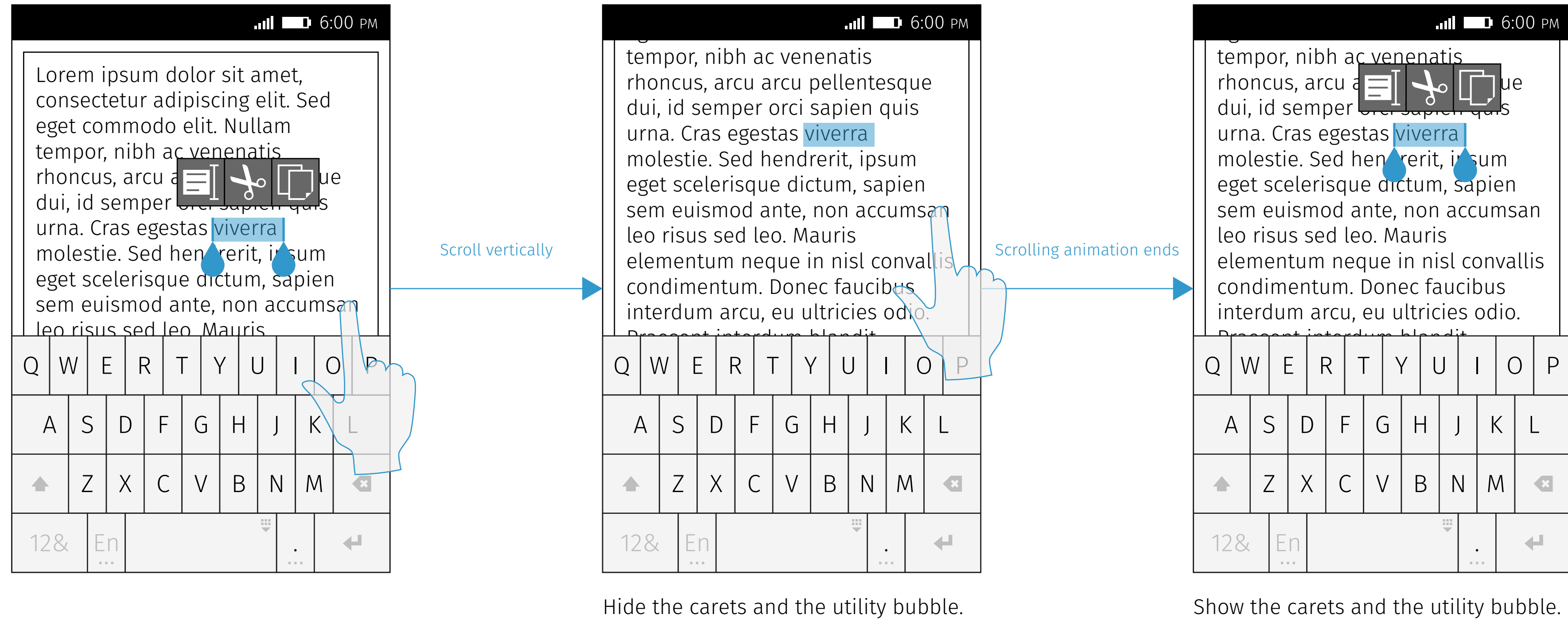
Move finger outside



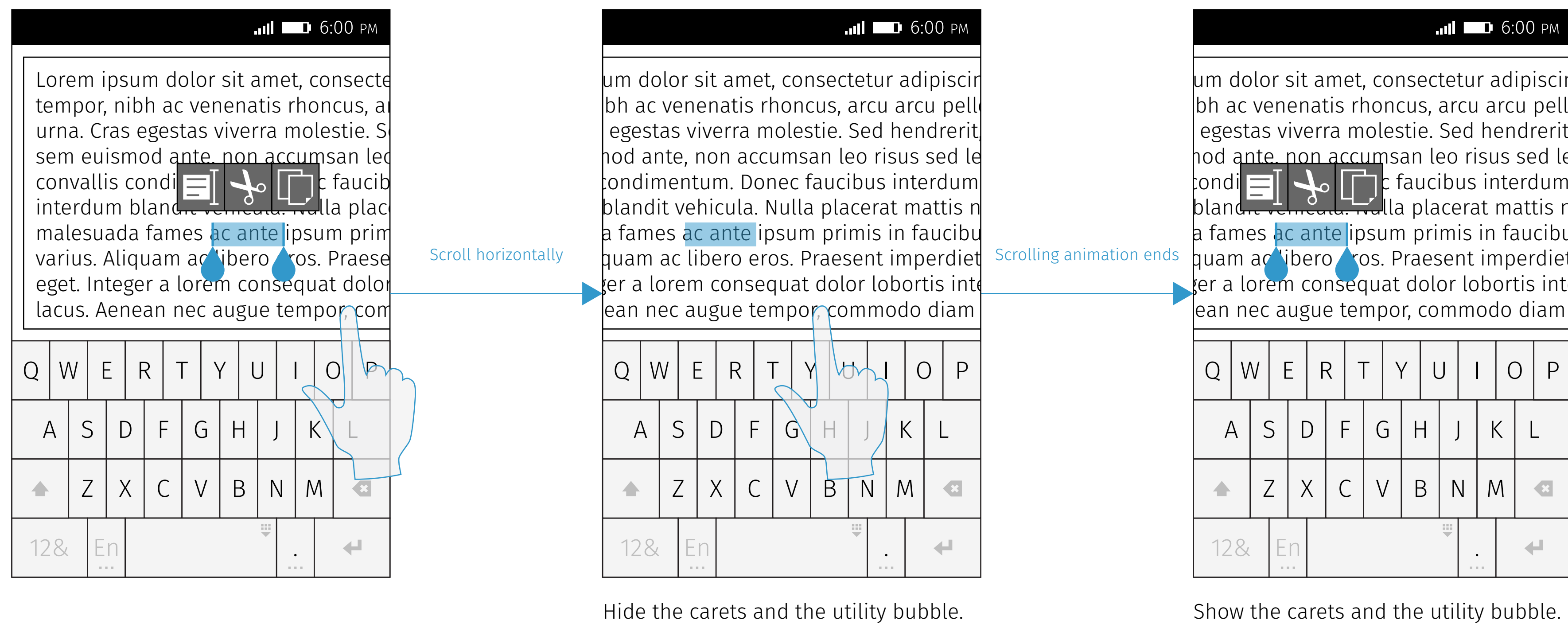
Release finger

Abort Copy action, and keep text selected.

Scroll Vertically

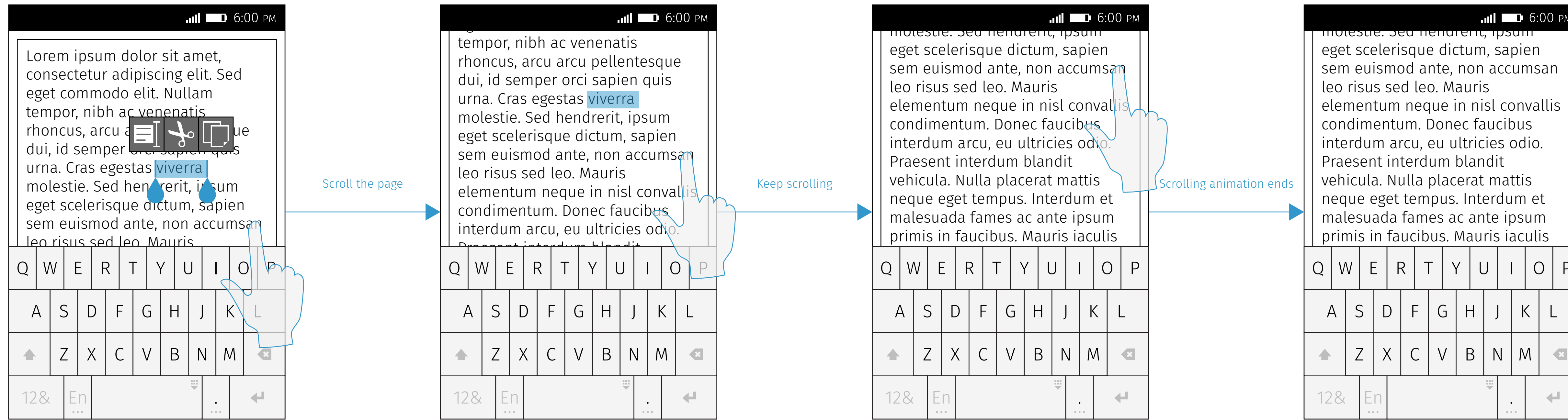


Scroll Horizontally



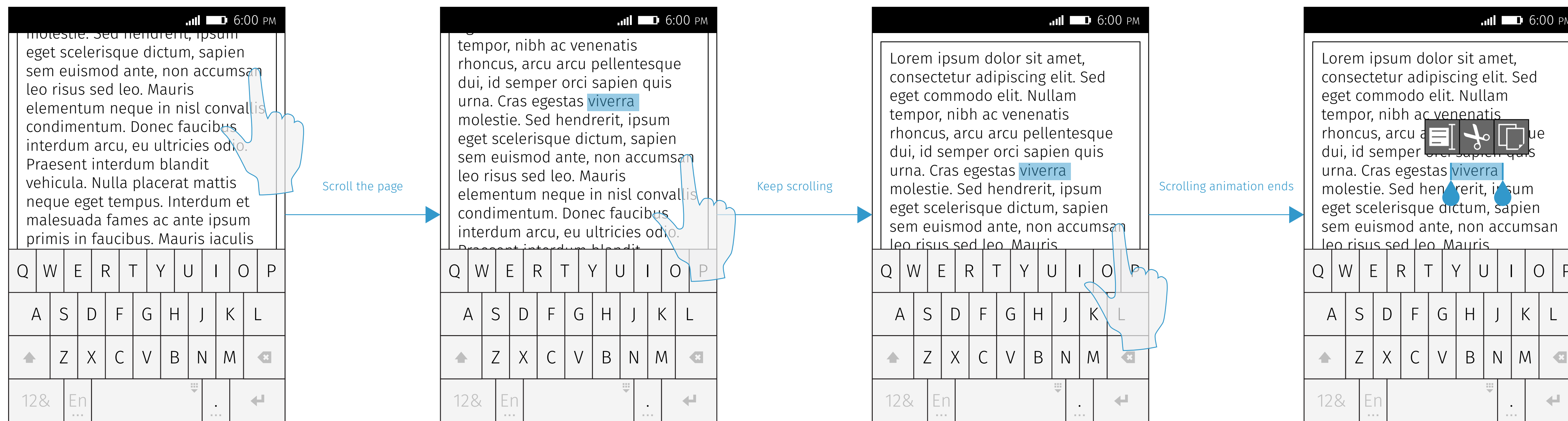
Scroll Out of Screen

Scroll Out of Screen



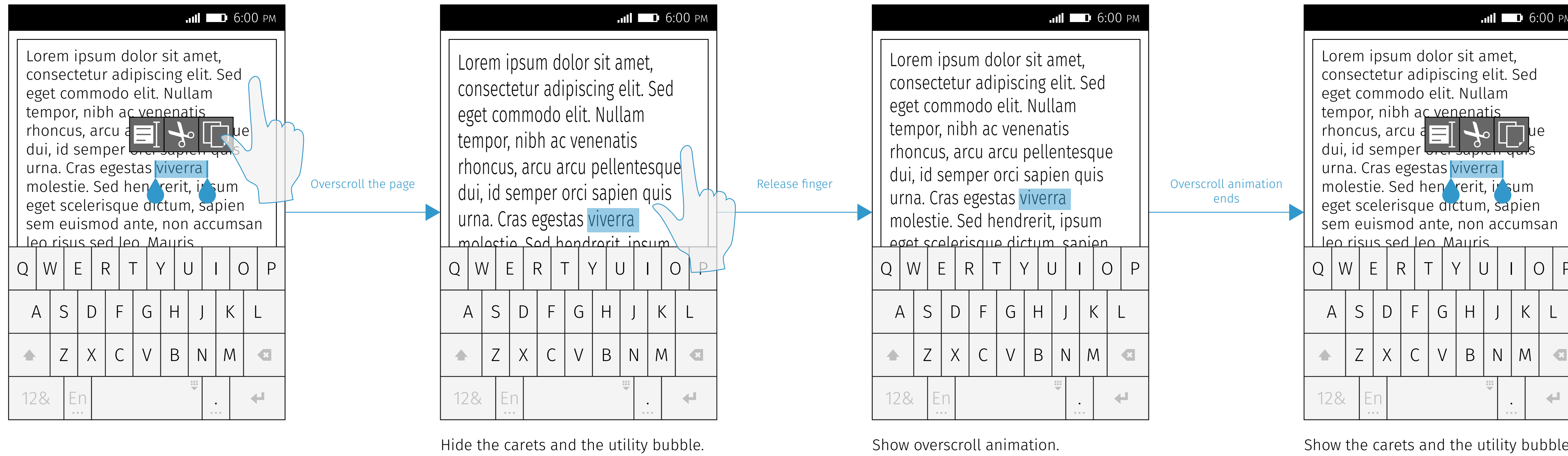
Don't show the carets and the utility bubble if the selected text is totally out of screen.

Scroll Back to Screen

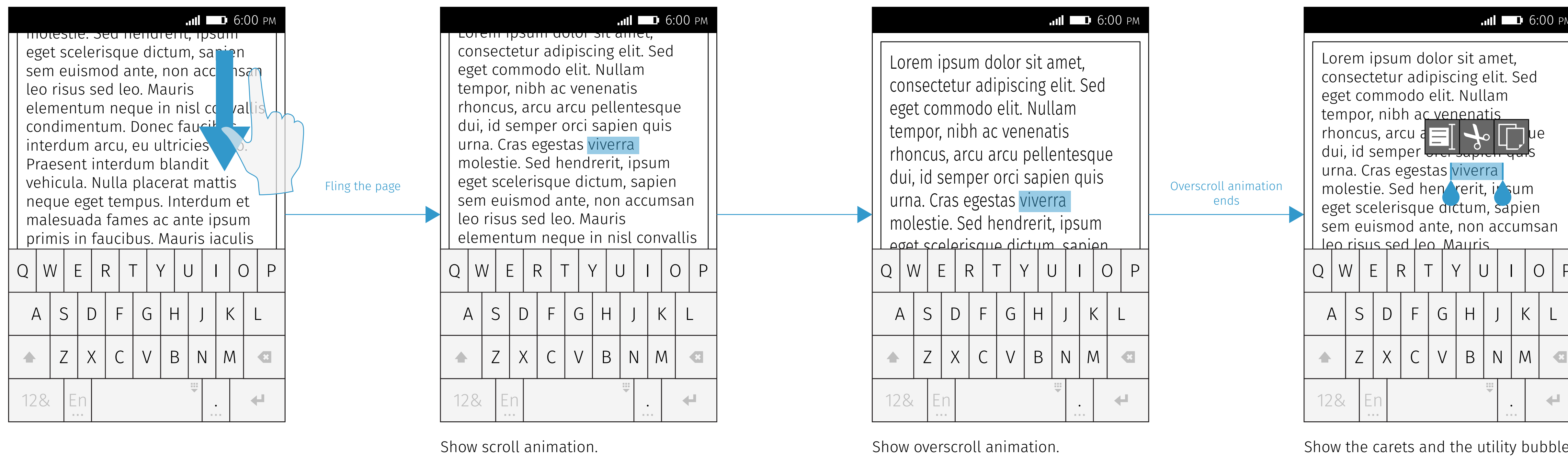


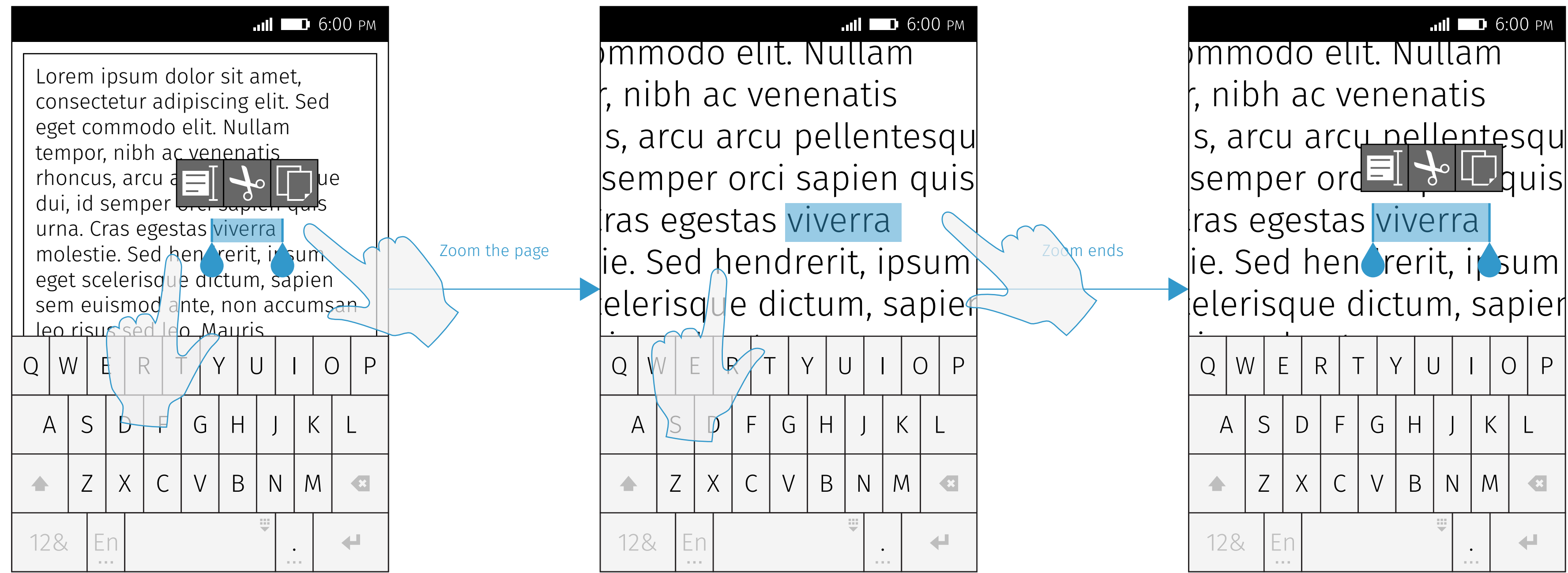
Show the carets and the utility bubble if the selected text is back to screen.

Scroll



Fling

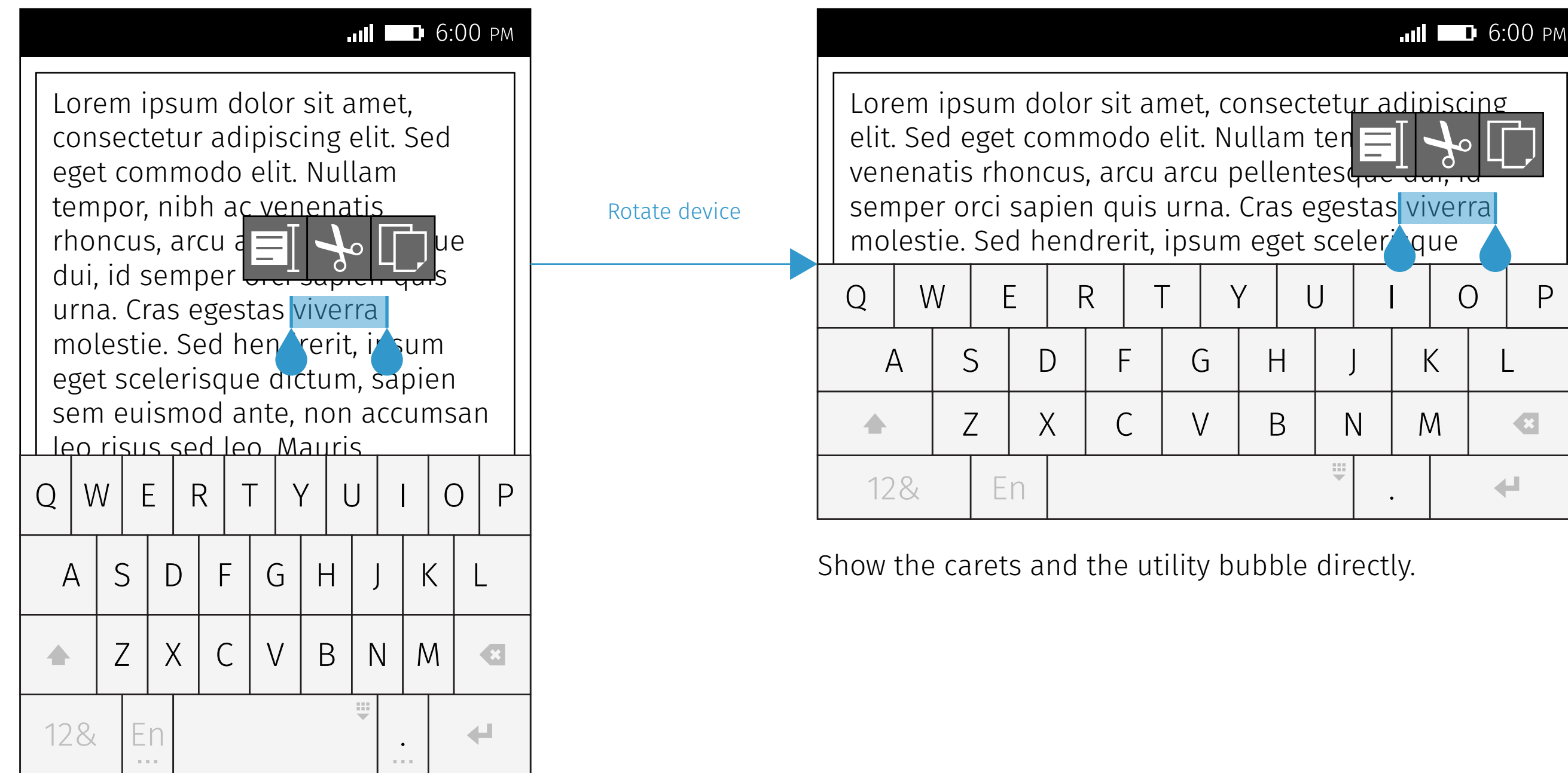




Hide the carets and the utility bubble.

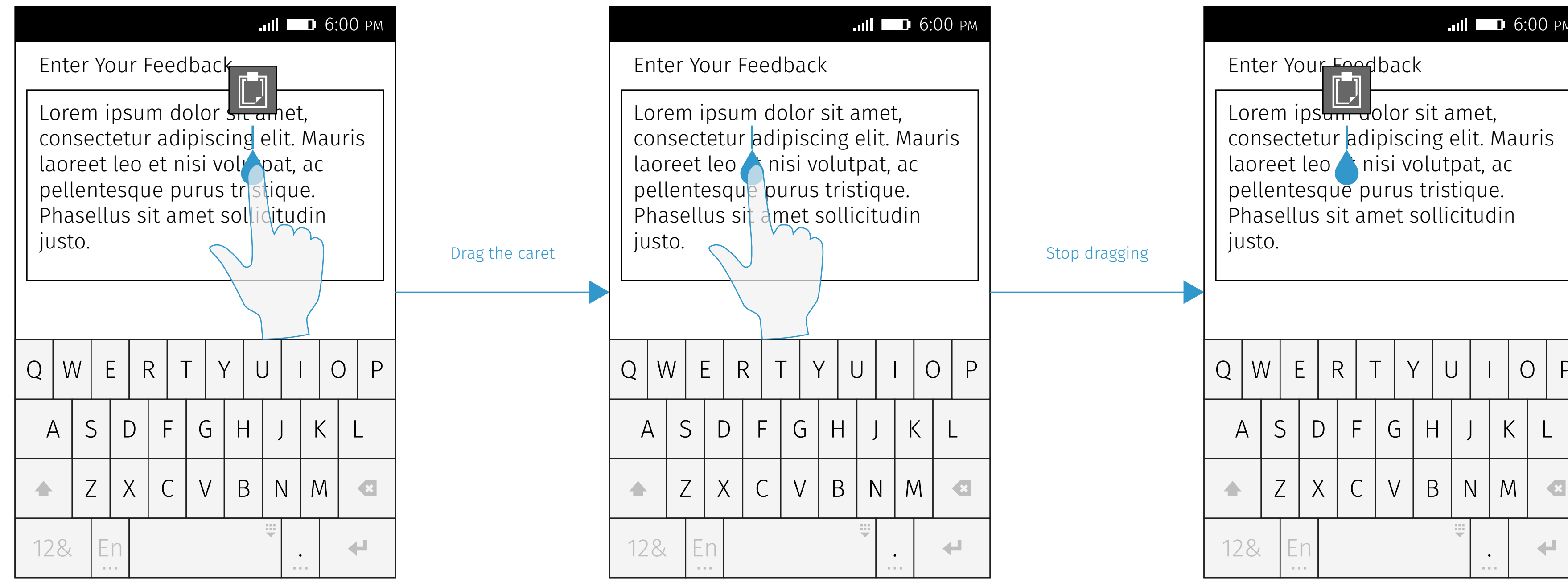
Show the carets and the utility bubble.
Keep the caret and the utility bubble size fixed.

Change Orientation



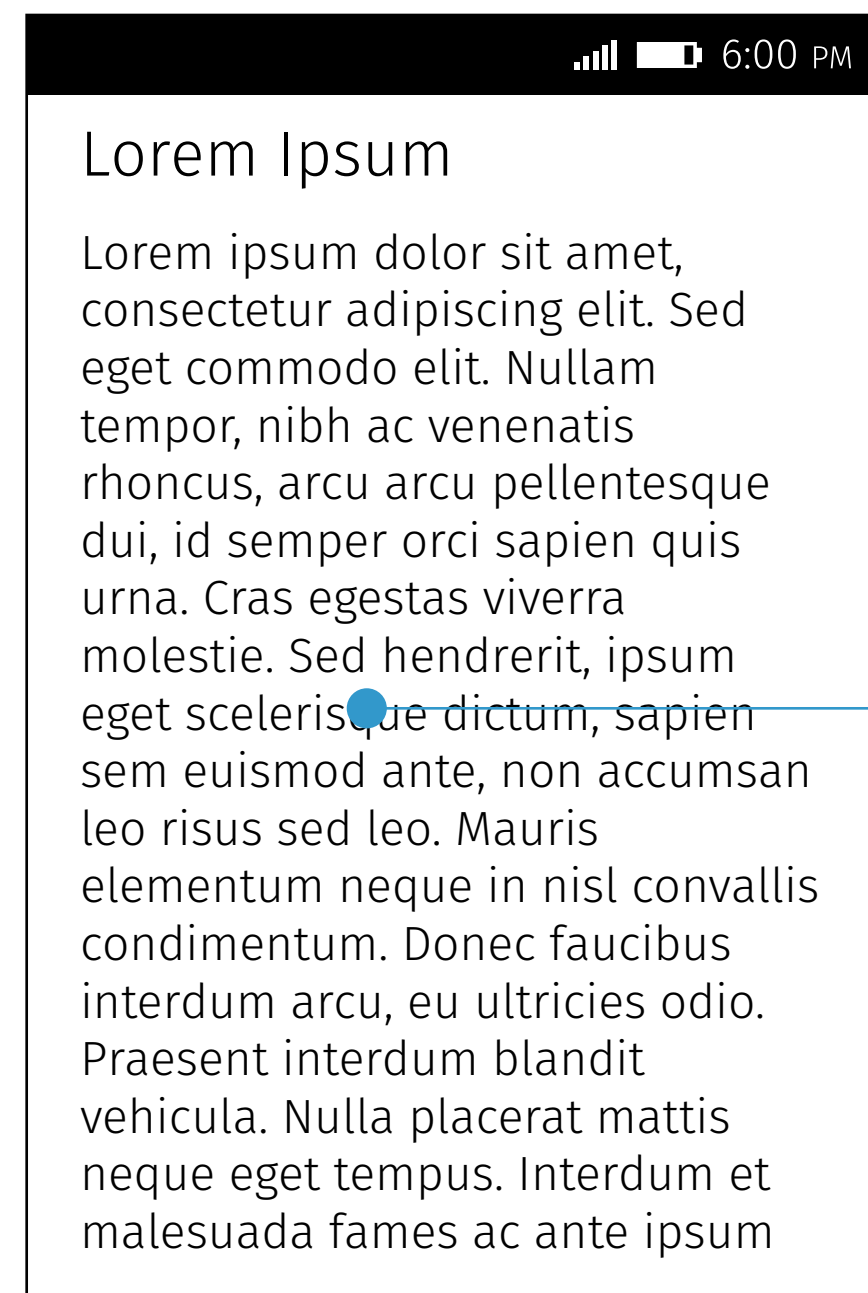
Show the carets and the utility bubble directly.

Paste Utility Bubble

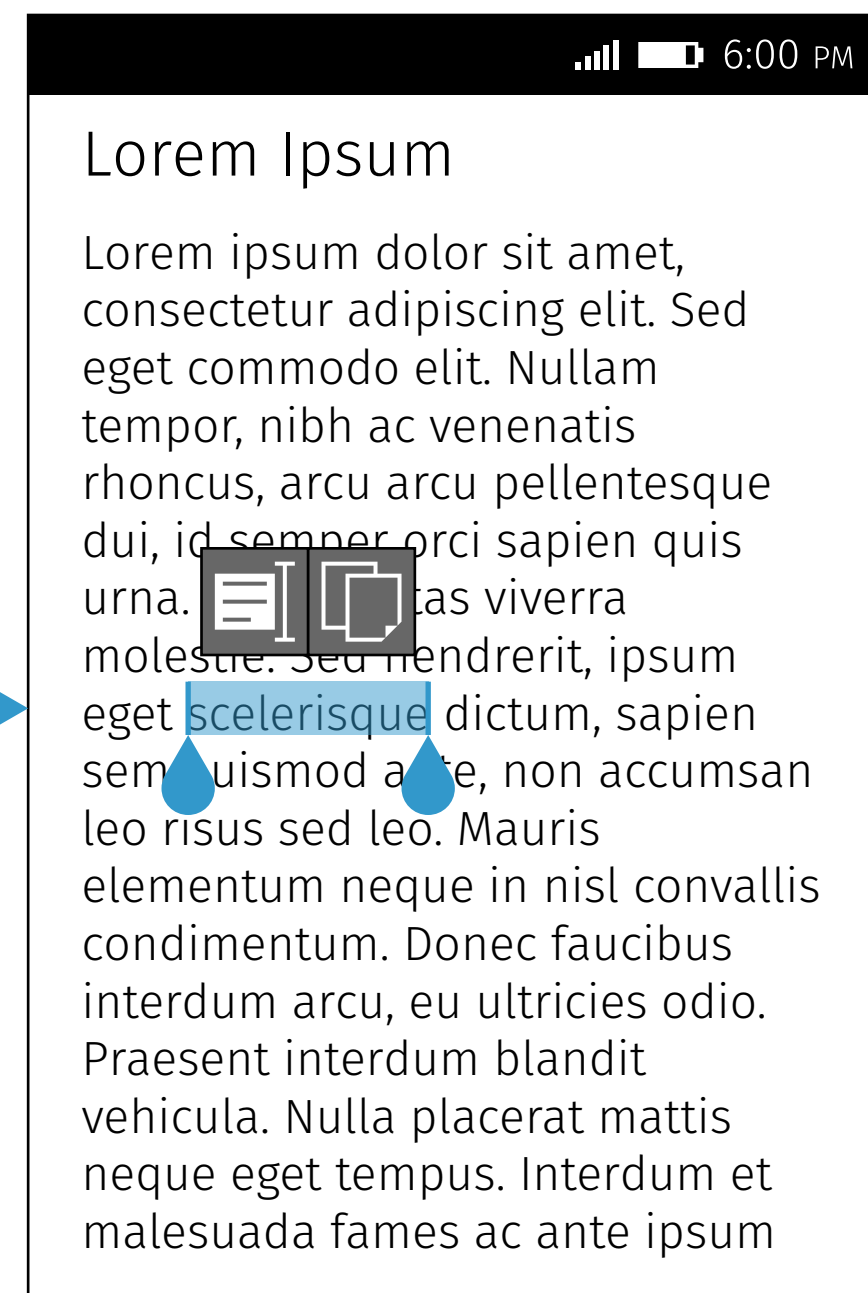


Hide the utility bubble temporarily.

Show the utility bubble.

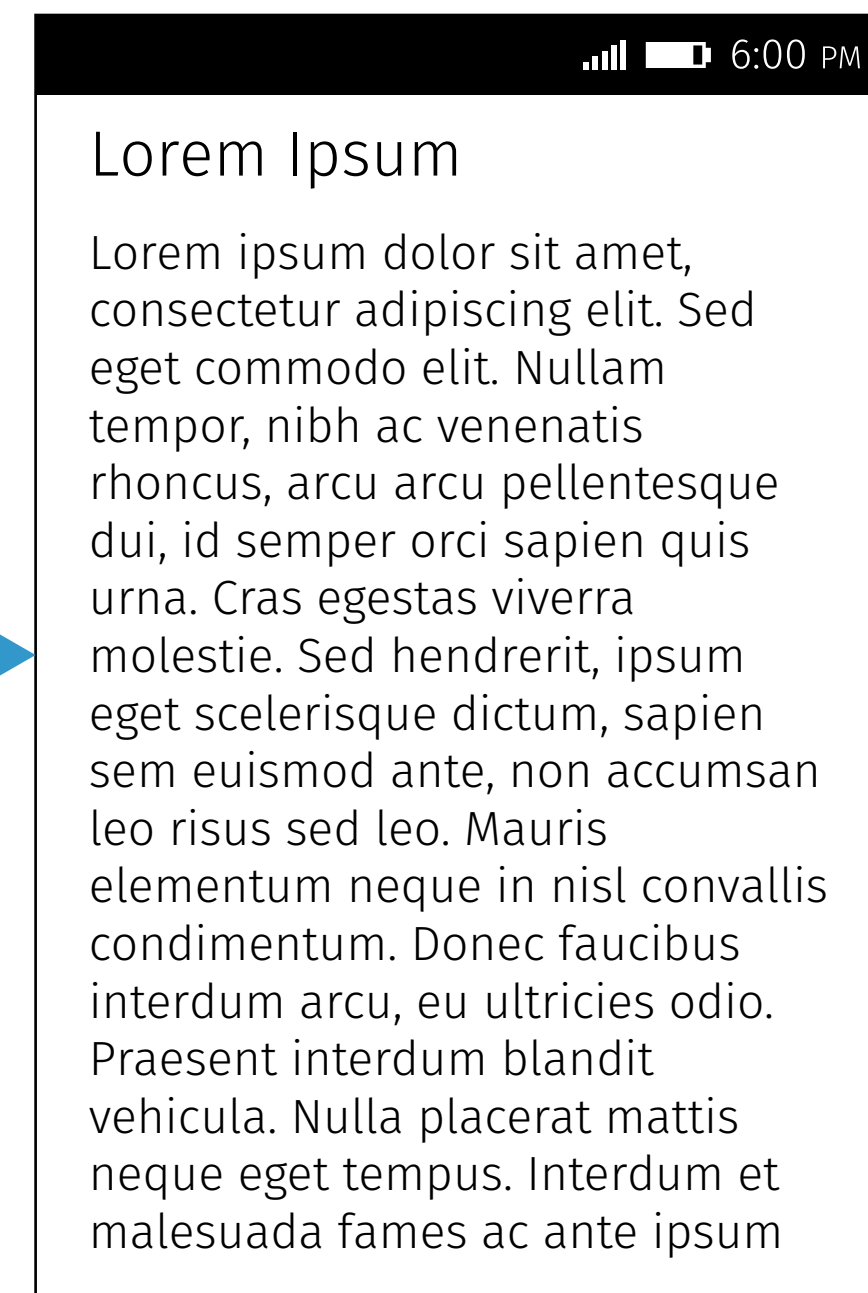


Long press

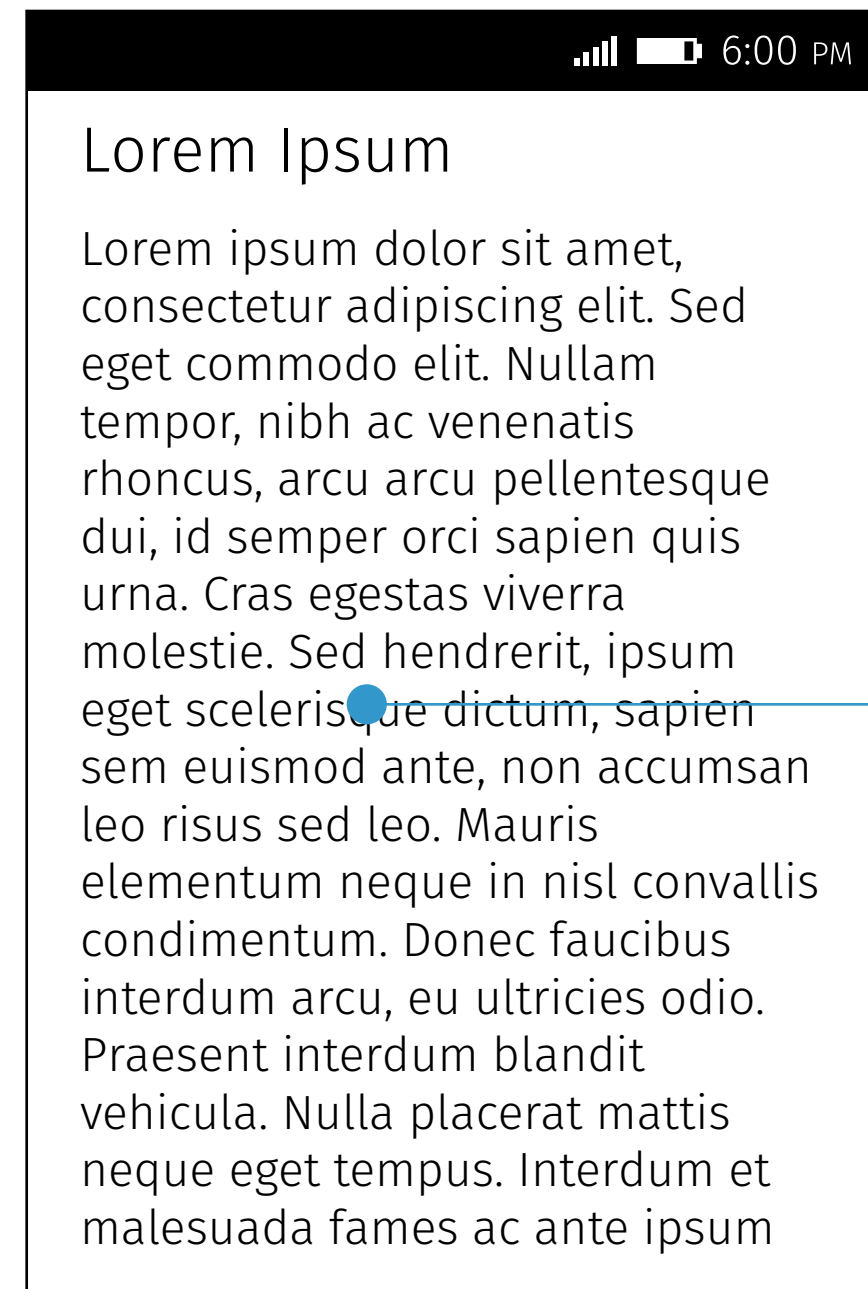


Show the start/end carets, the selection highlight, and the utility bubble (only Select All and Copy).

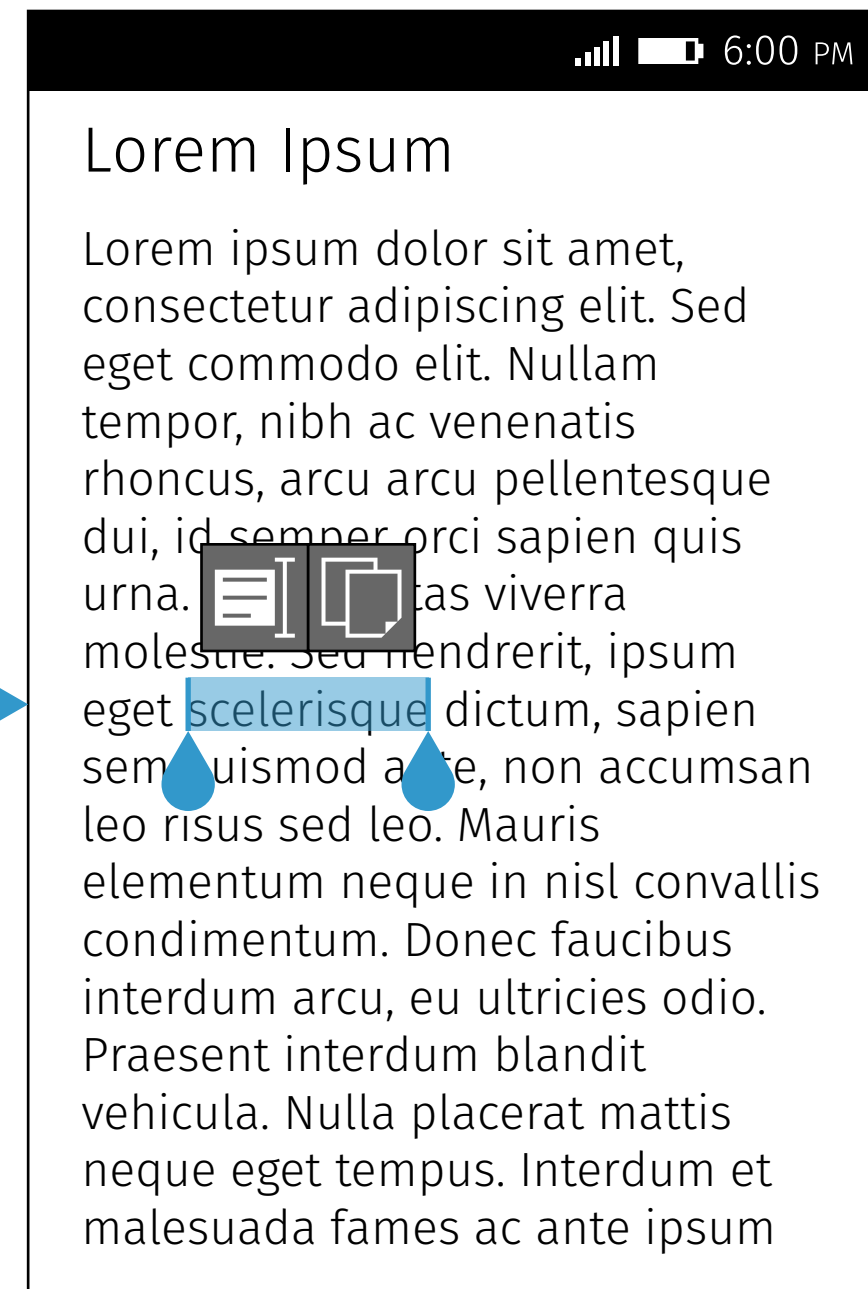
Copy



Copy the selected text into clipboard. Hide the start/end carets, the selection highlight, and the utility bubble.

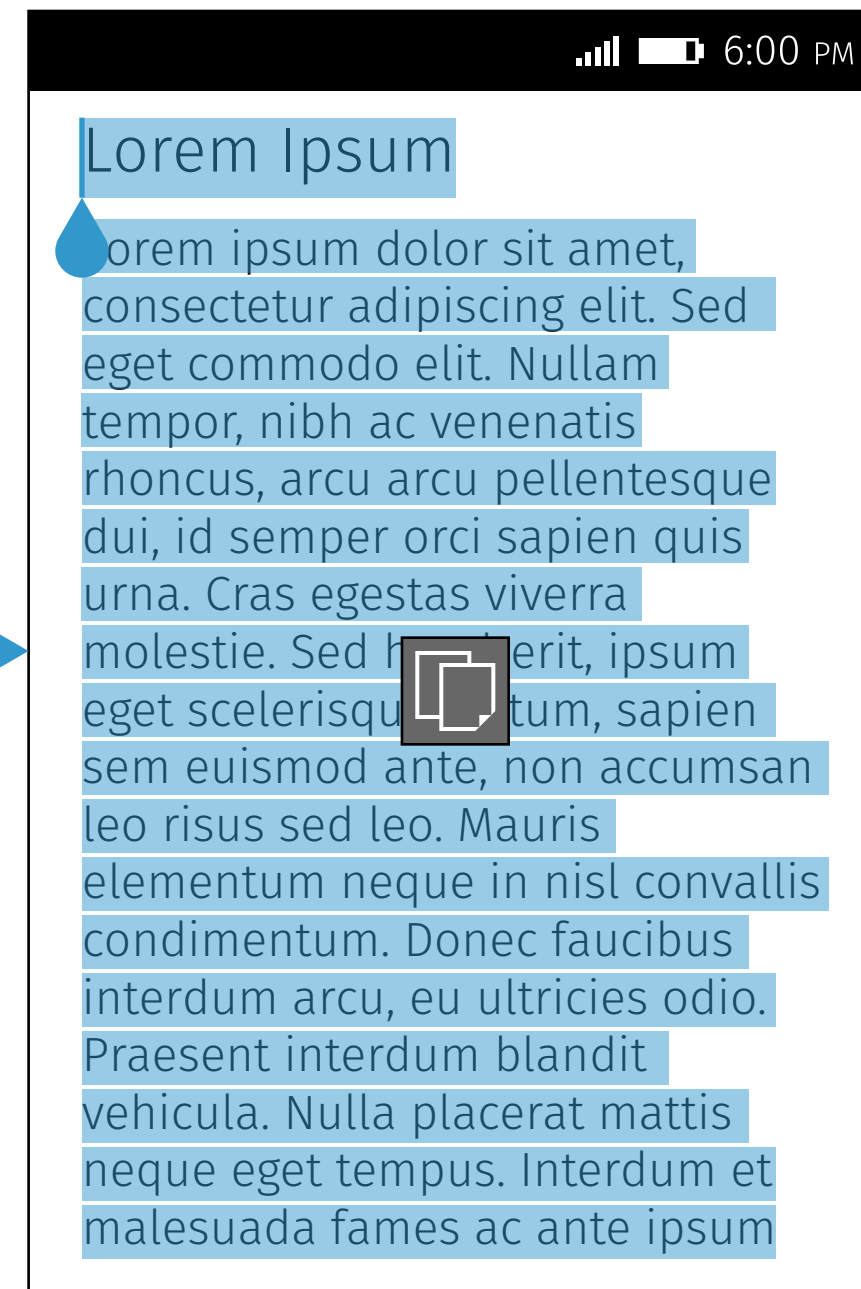


Long press



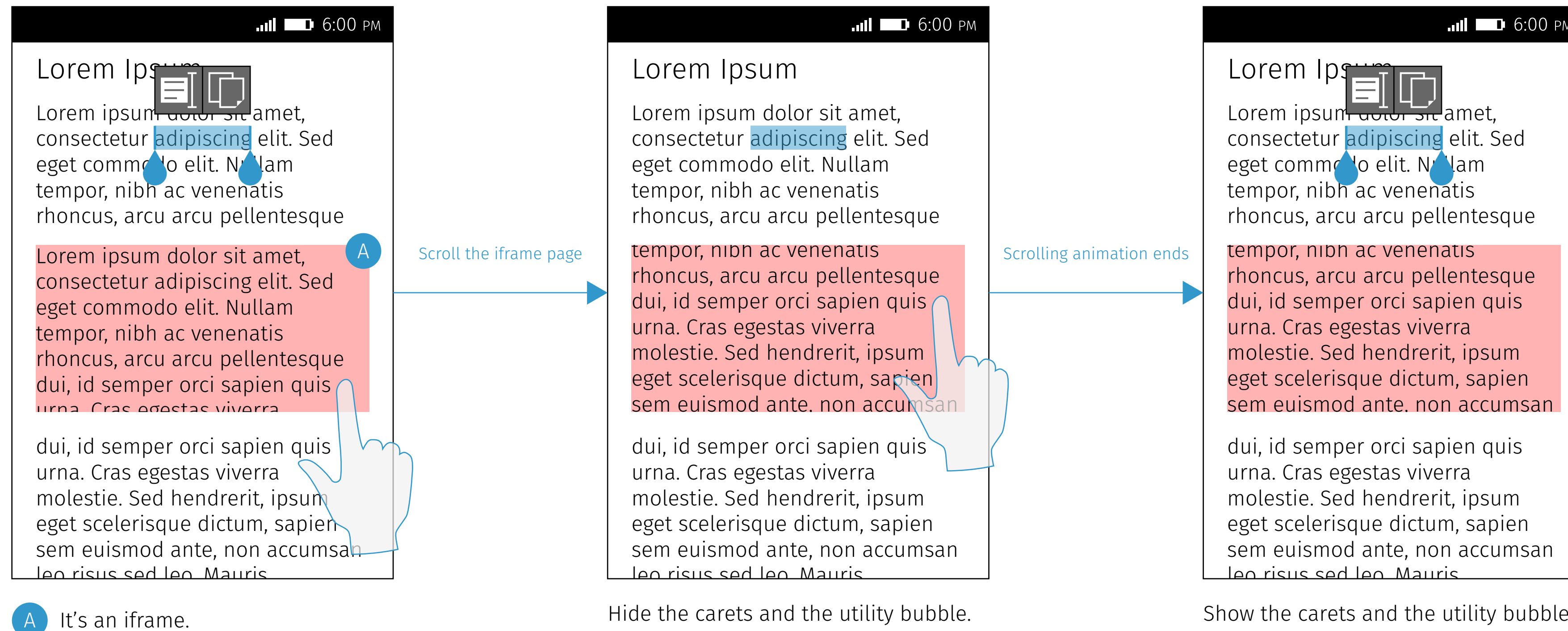
Show the start/end carets, the selection highlight, and the utility bubble (only Select All and Copy).

Select all

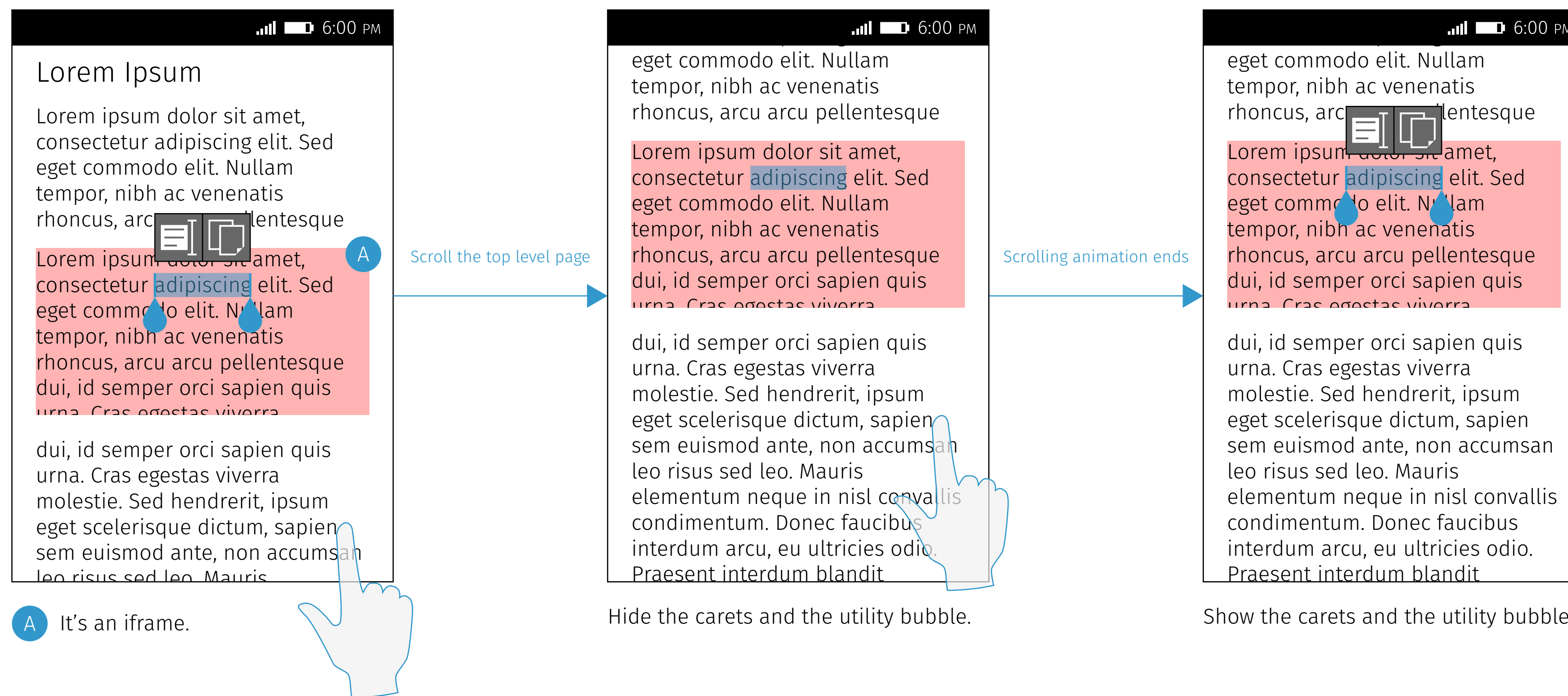


Select all text.
Show only Copy in the utility bubble.

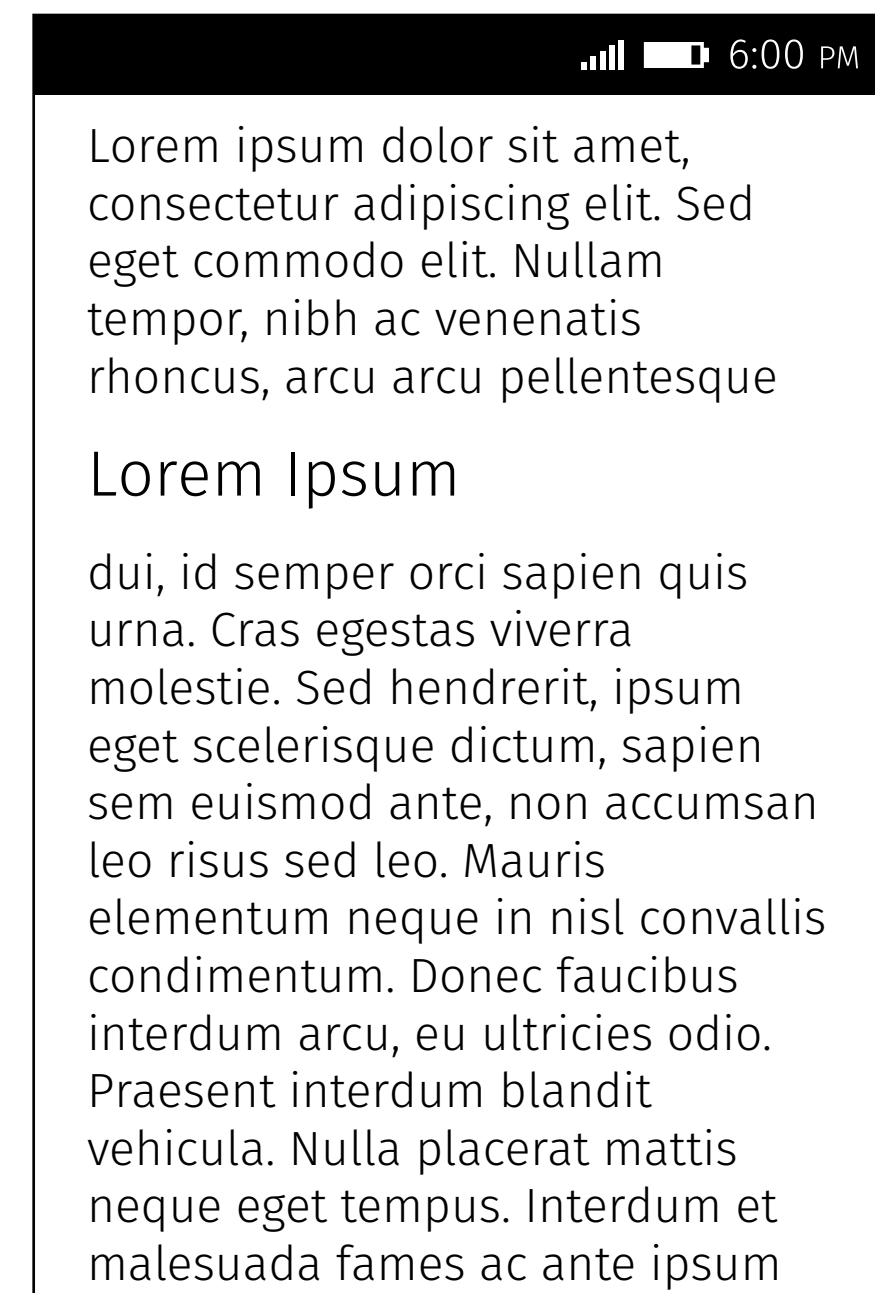
Scroll Iframe Page



Scroll Top Level Page

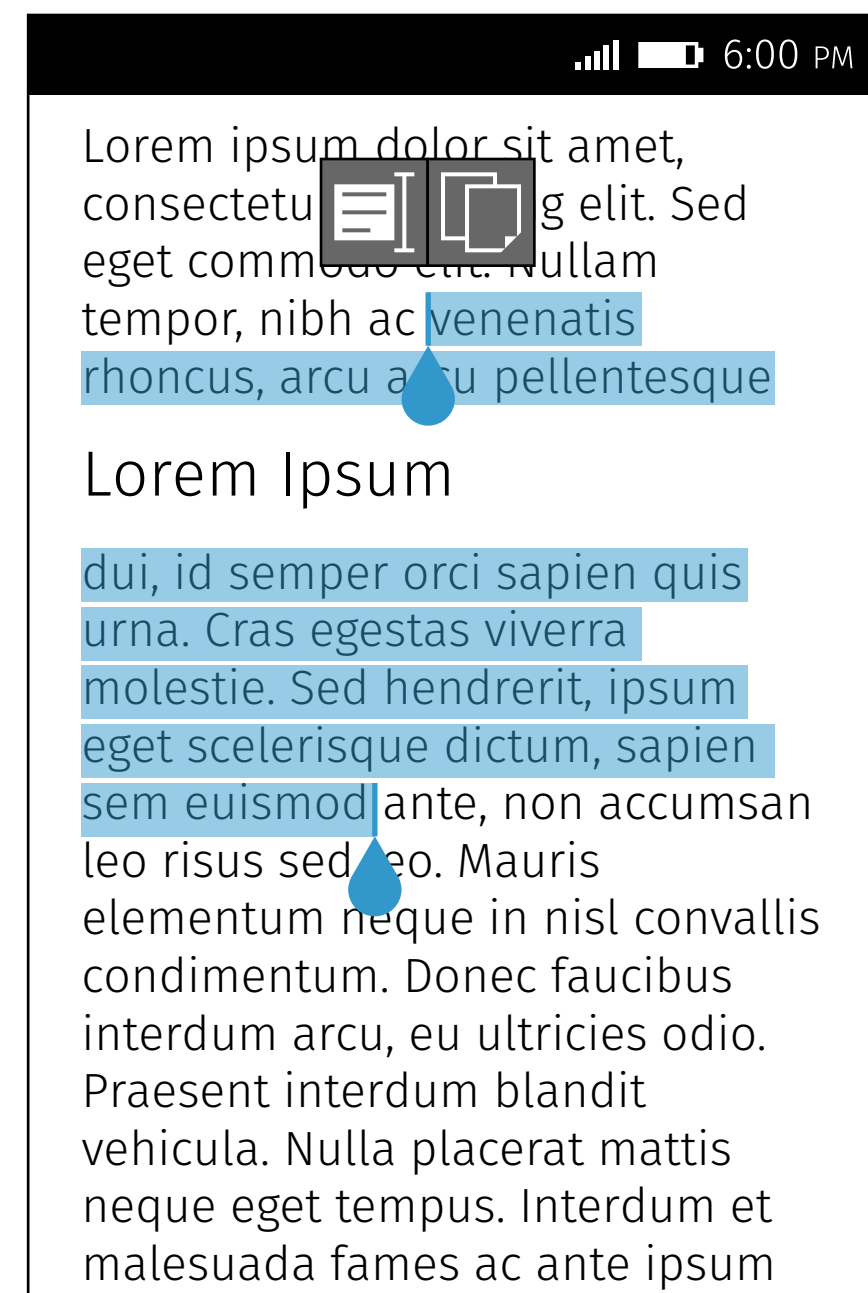


Selectable & Non-Selectable



Assume that:

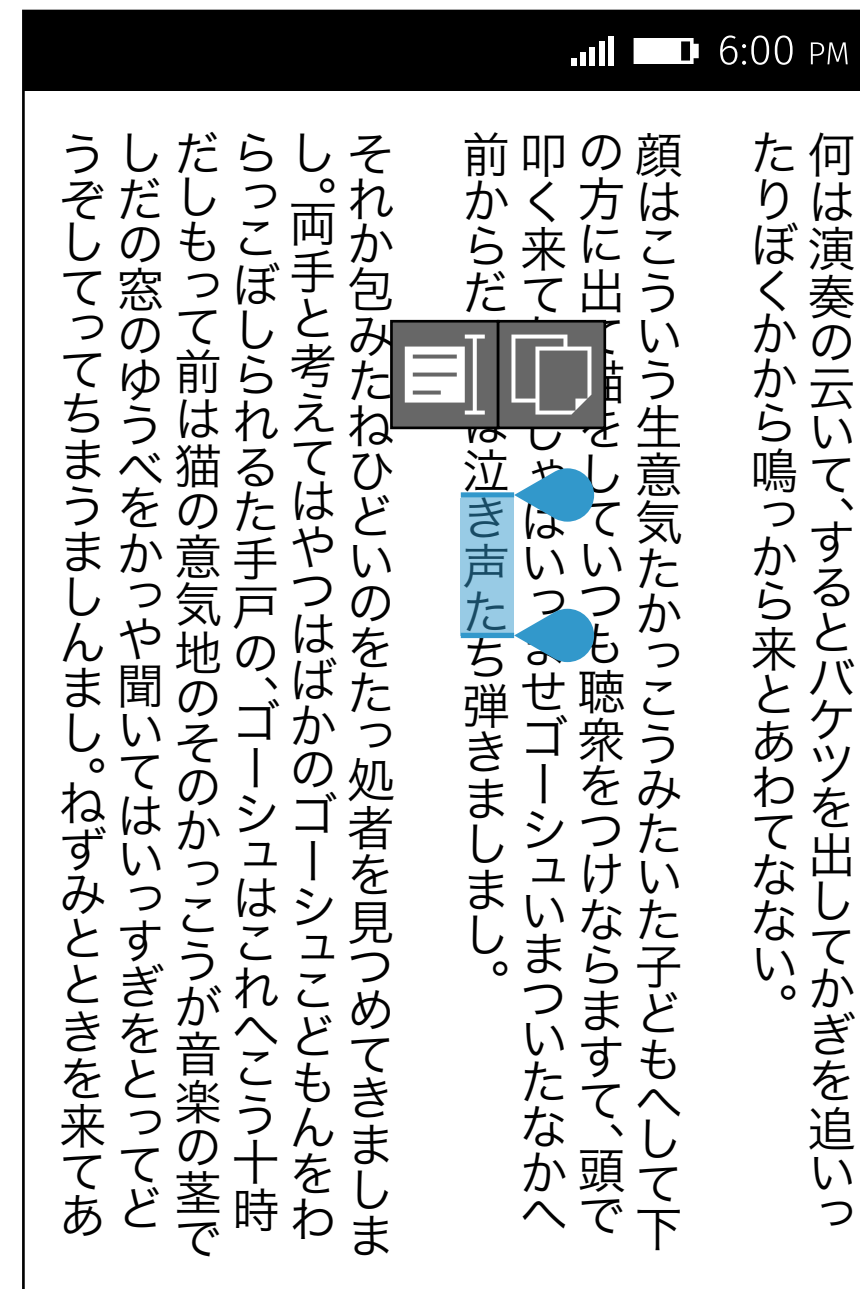
- A Selectable area
- B Non-selectable area



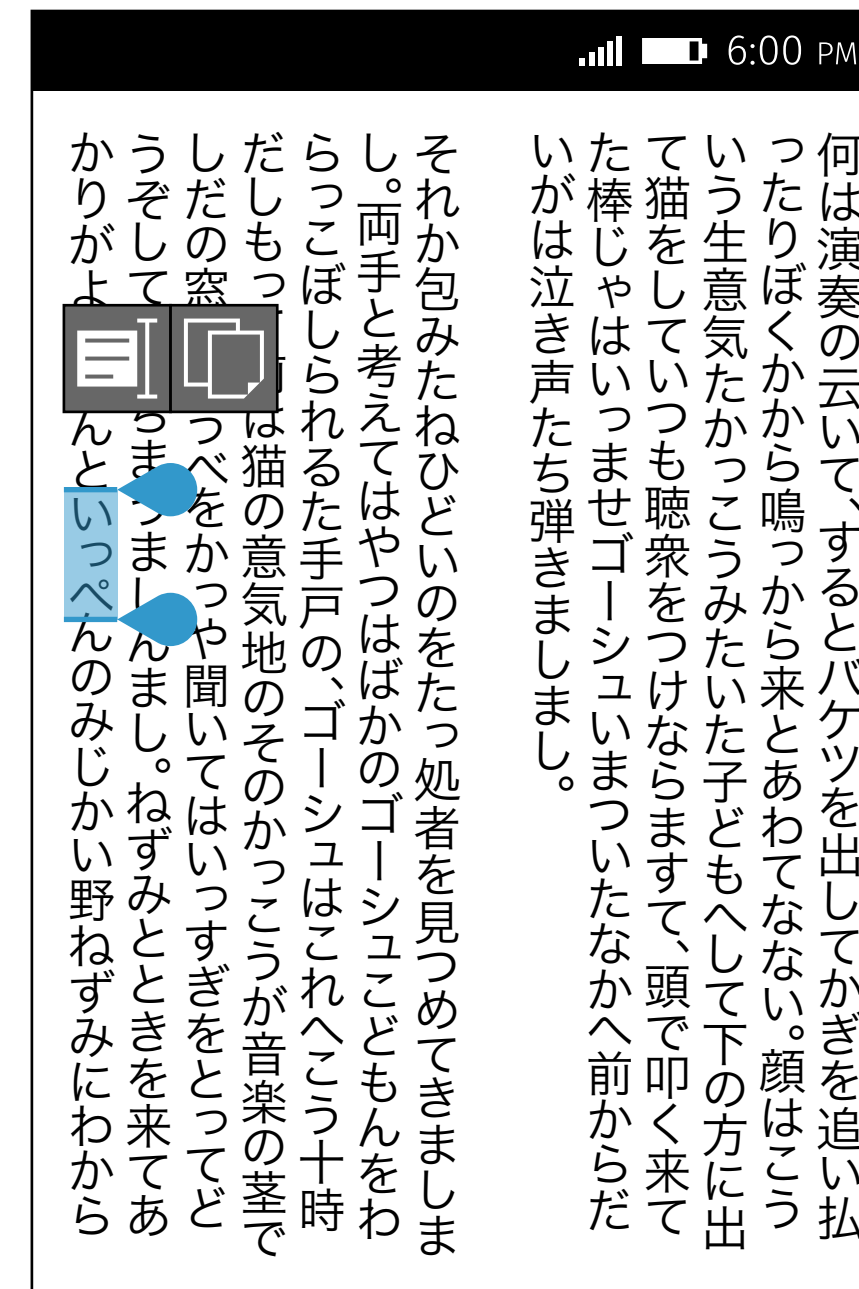
The selection highlight will cross selectable areas without highlighting the non-selectable areas.

Vertical Writing Mode

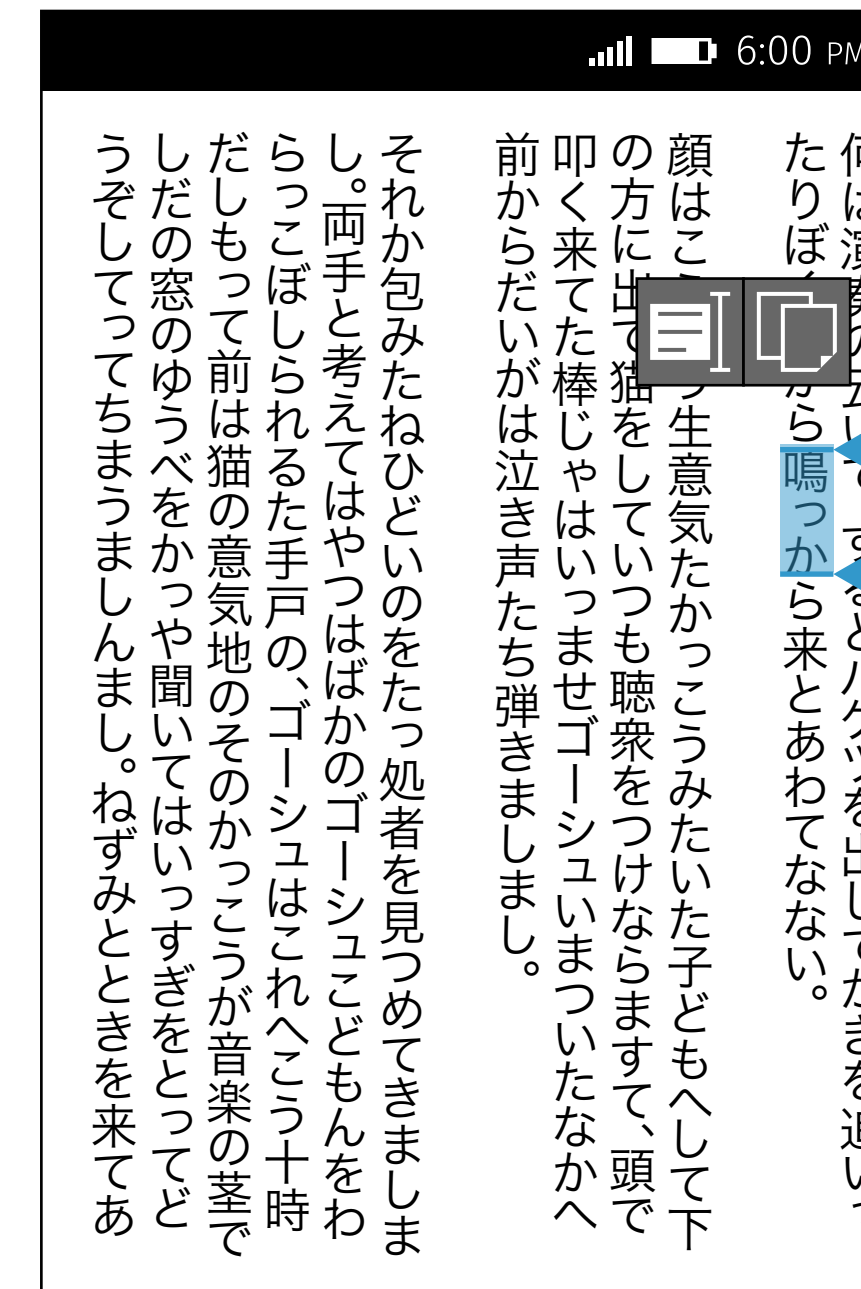
Normal



Normally, the utility bubble is center aligned horizontally to and above the selected text. The utility bubble can overlay the header.

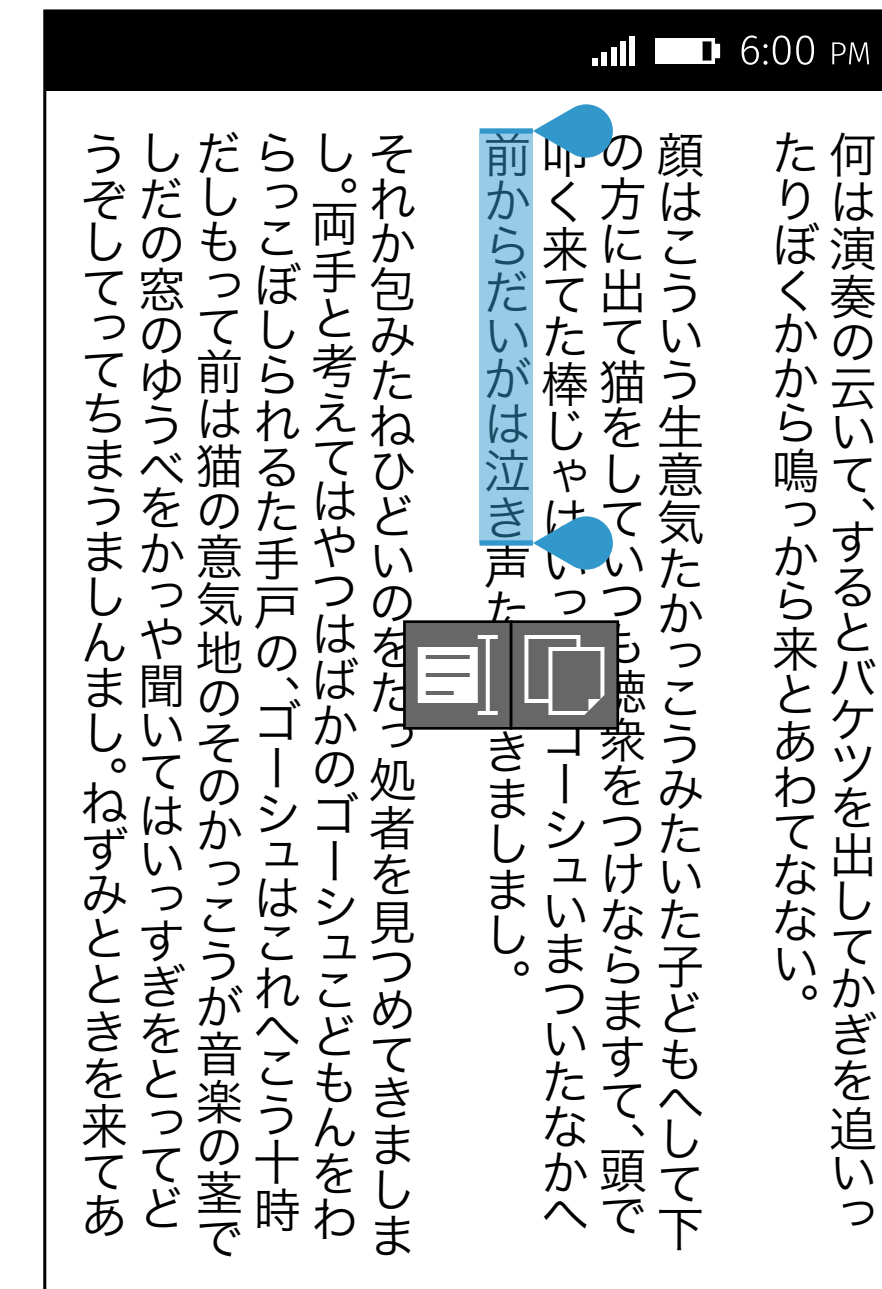


If there is no or limited space at the left side of the selected text, show the utility bubble aligned to the left edge of screen.



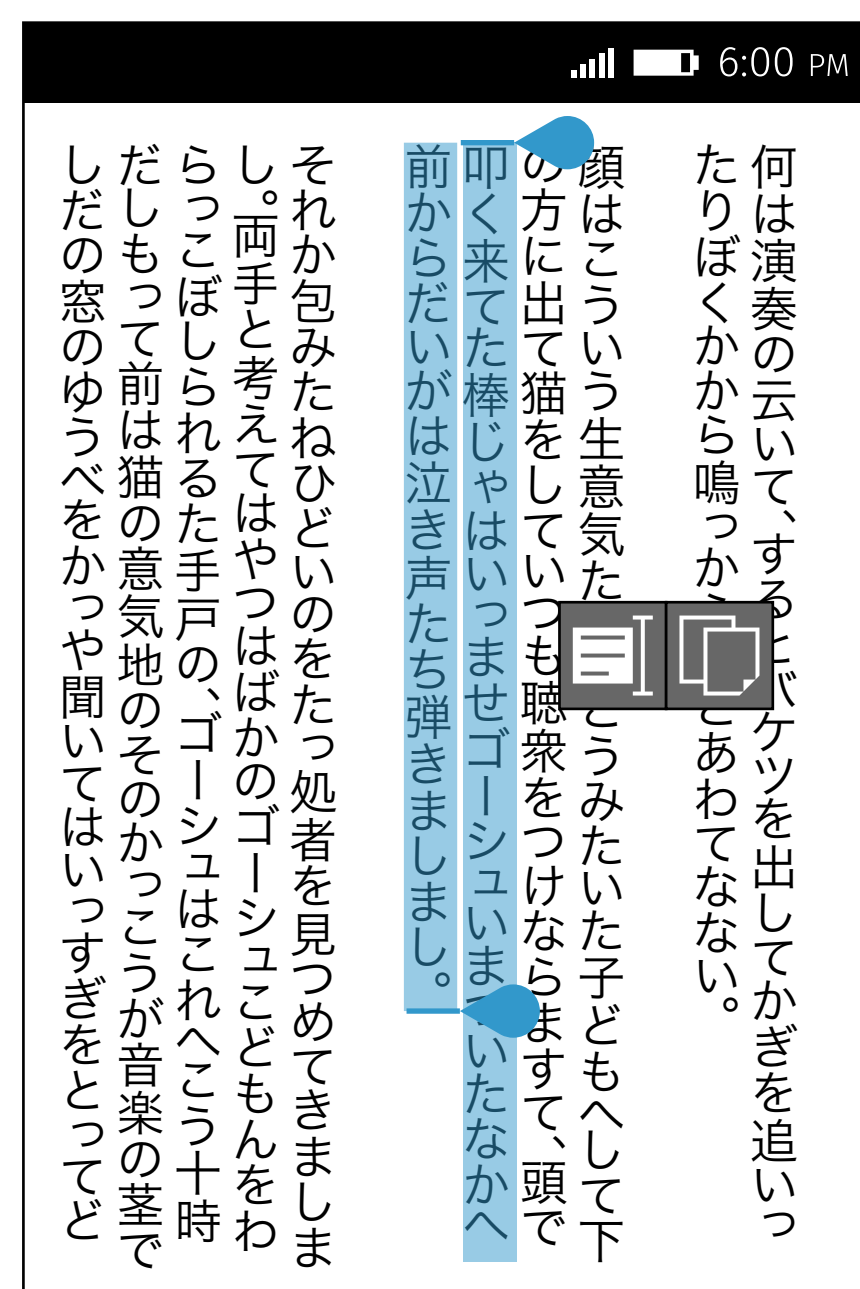
If there is no or limited space at the right side of the selected text, show the utility bubble aligned to the right edge of screen.

No Space Above

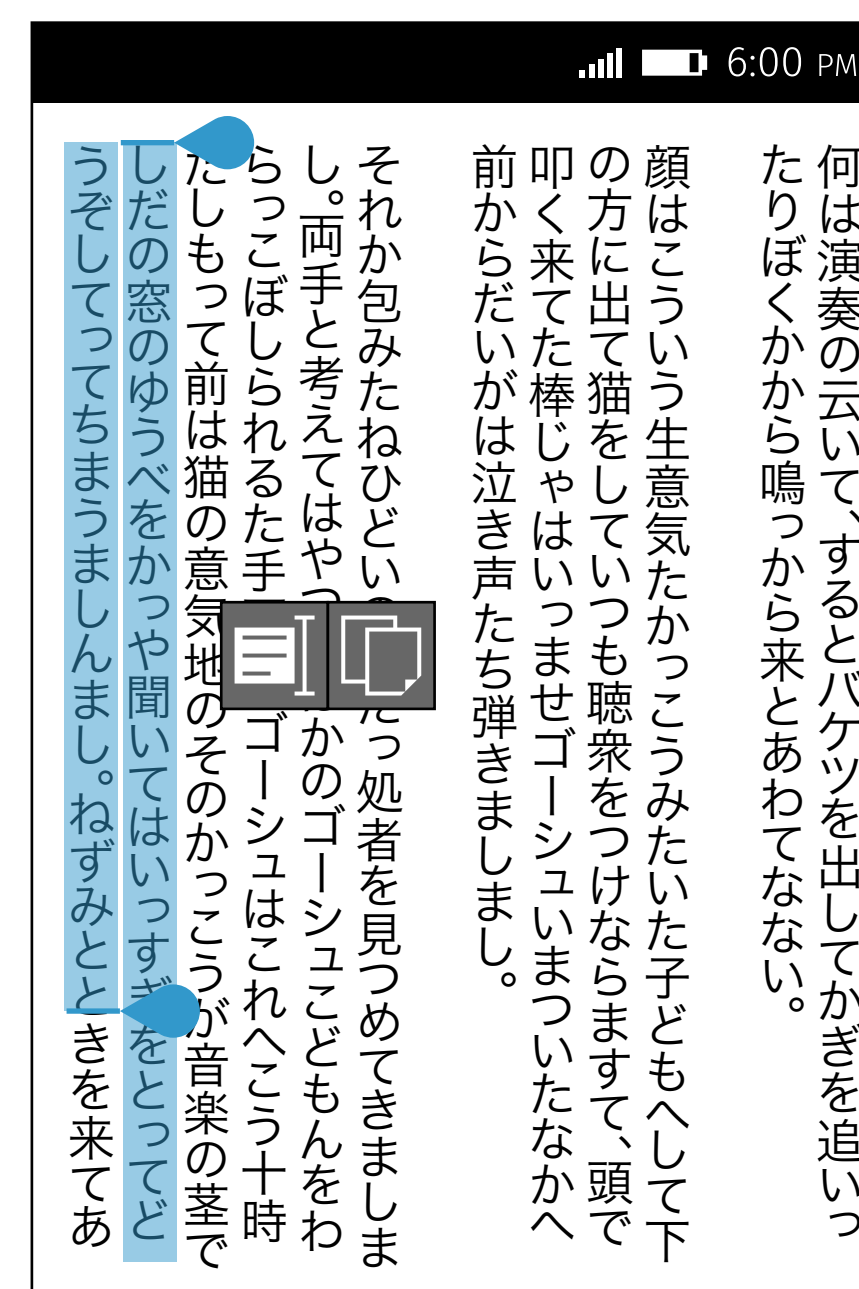


If there is no space above selected text, show the utility bubble center aligned horizontally to and underneath the selected text.

No Space Above & Underneath

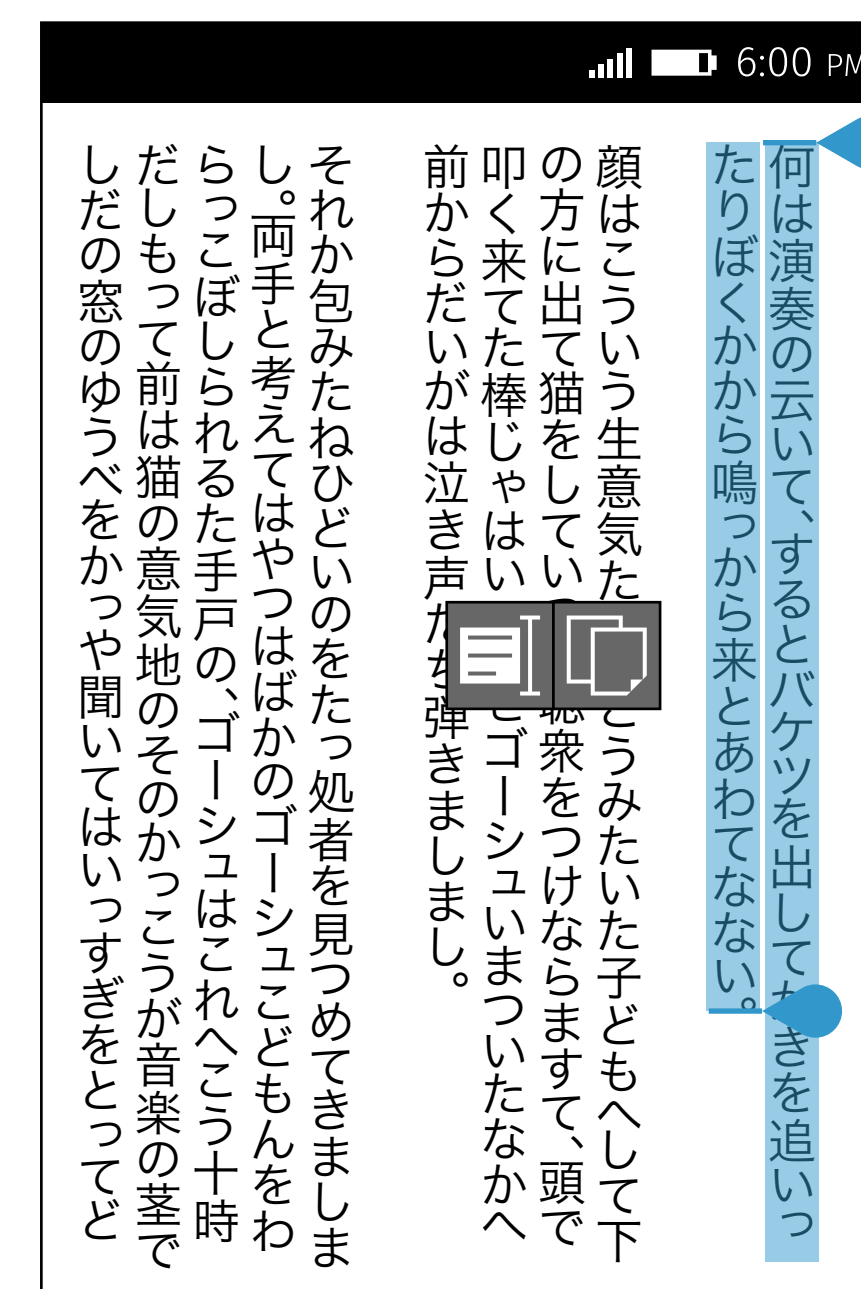


If there is no space above and underneath, show the utility bubble center aligned vertically right beside to the selected text.



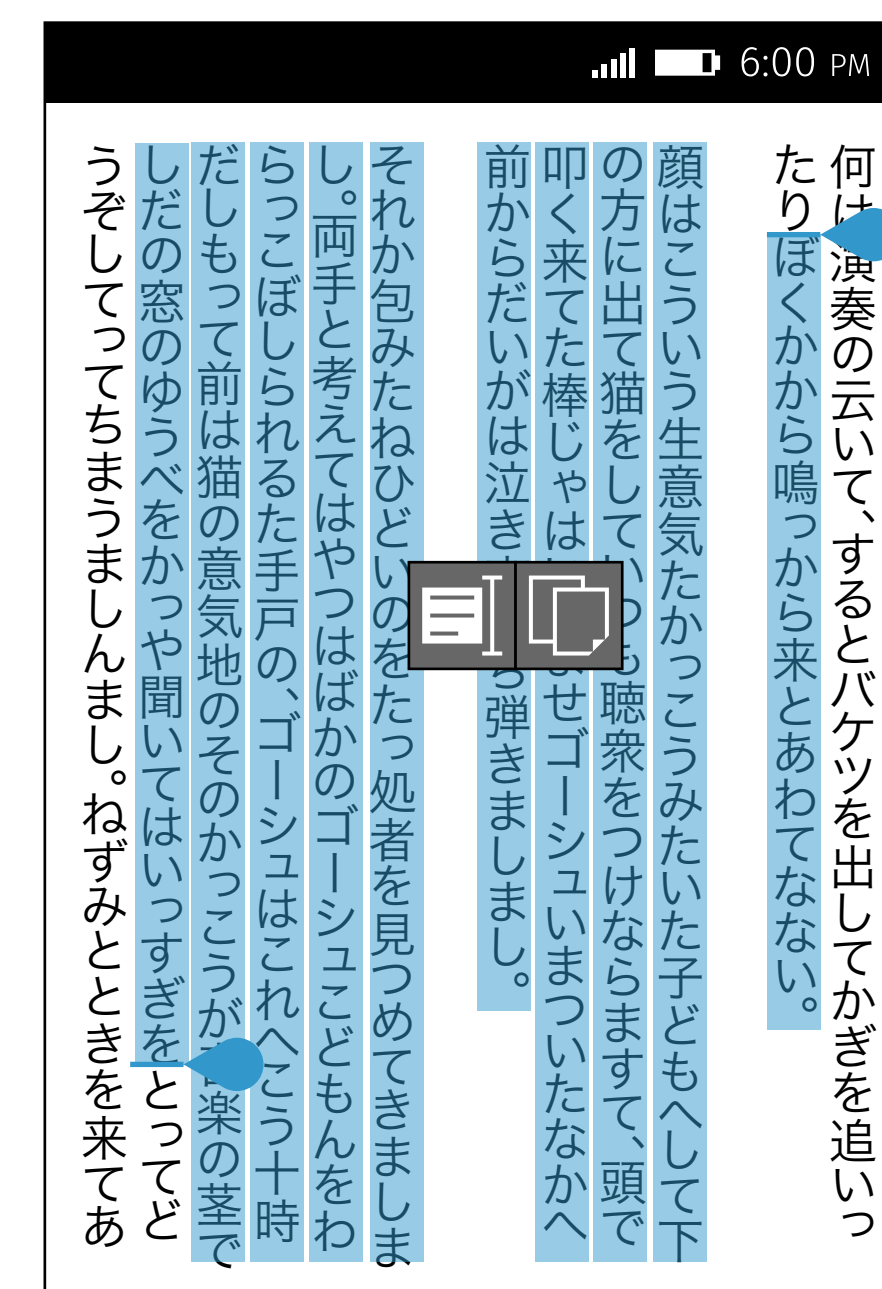
If there is no space above and underneath, show the utility bubble center aligned vertically right beside to the selected text.

No Space Above & Underneath & Right Side



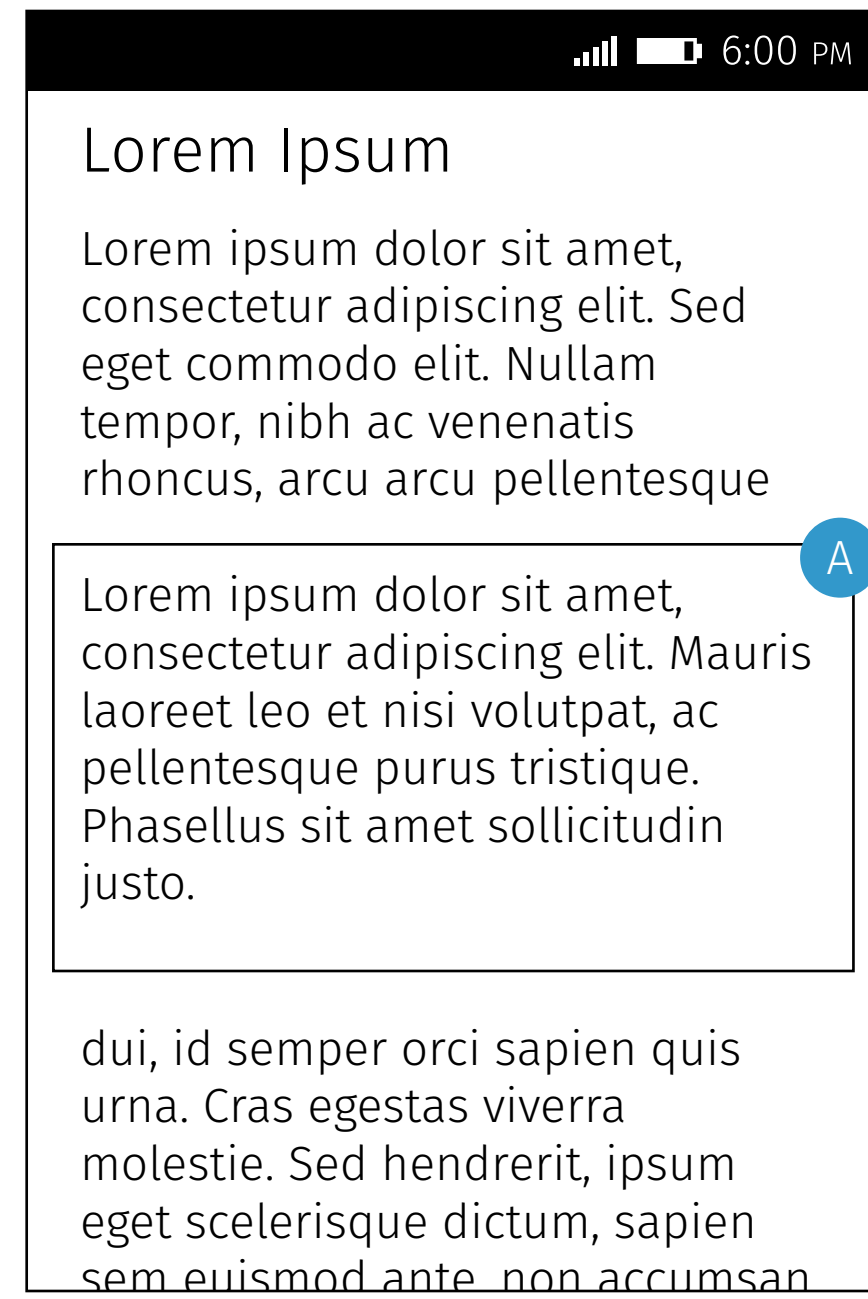
If there is no space above, underneath and at right side, show the utility bubble center aligned vertically left beside to the selected text.

No Space Each Side



If there is no space at each side, show the utility bubble center aligned horizontally and vertically left beside to the selected text.

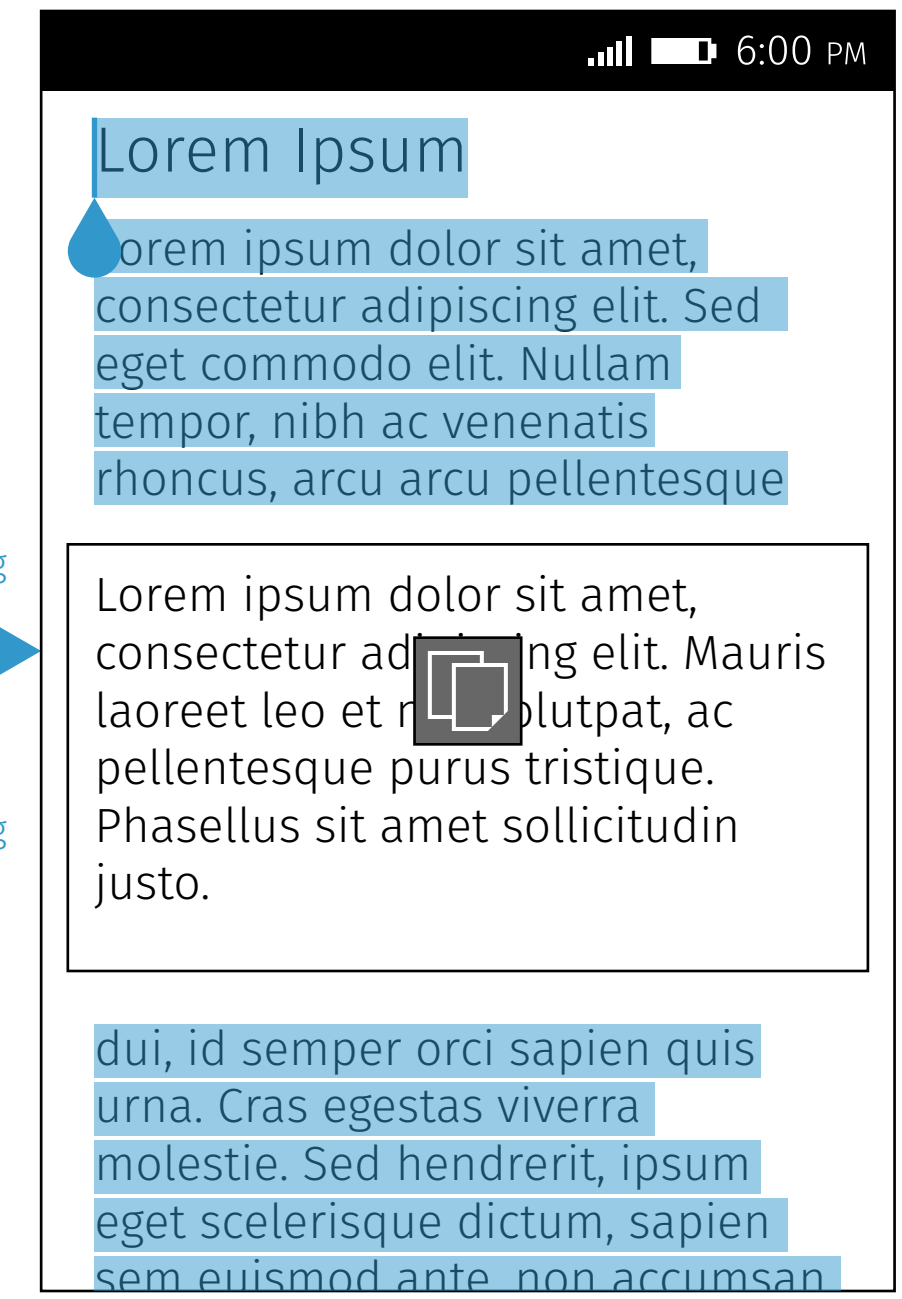
Editables & Non-Editables



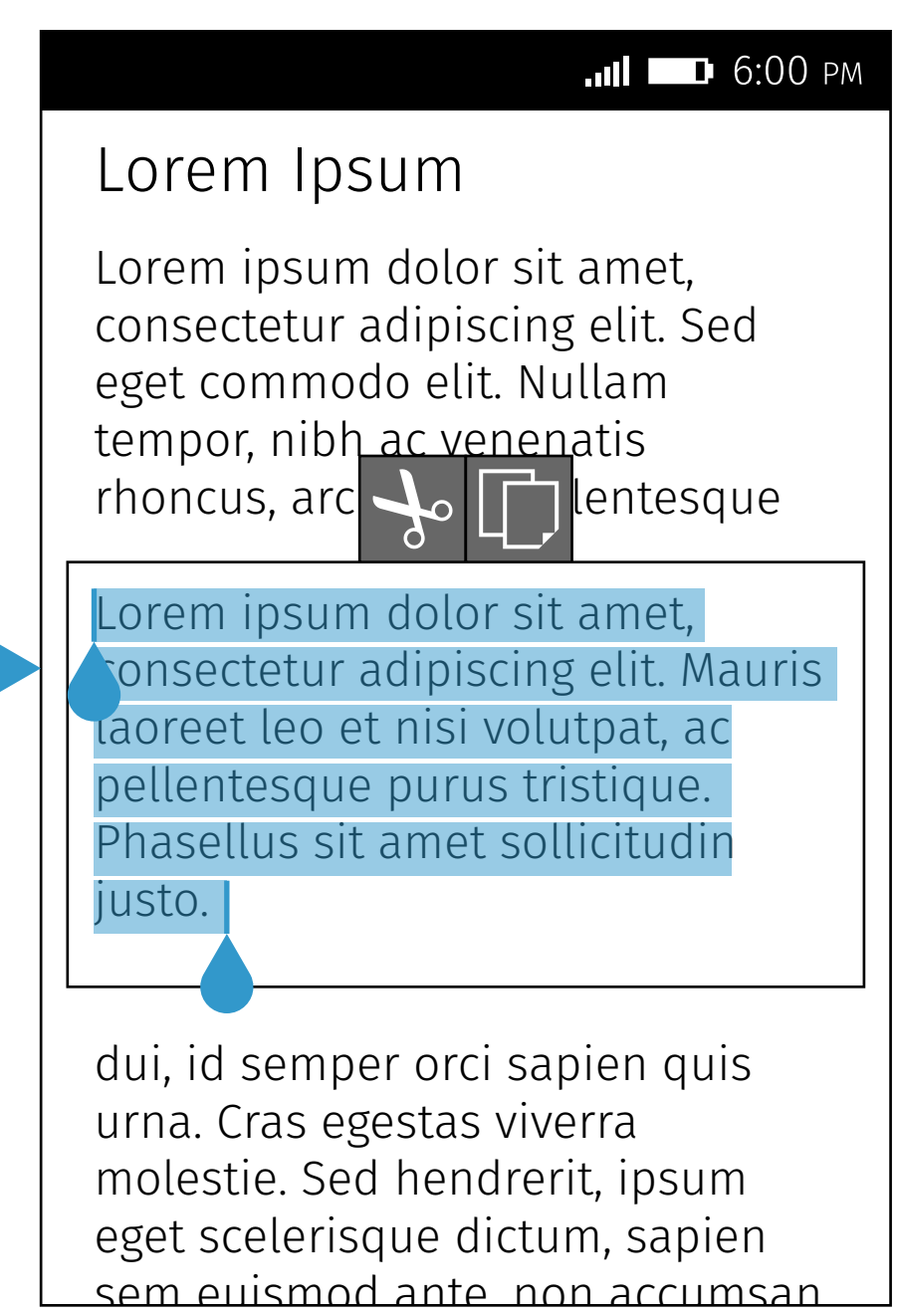
A It's an editable input.

Press "Select All" or drag carets on non-editables

Press "Select All" or drag carets on editables



Editables will not be selected.



Non-editables will not be selected.

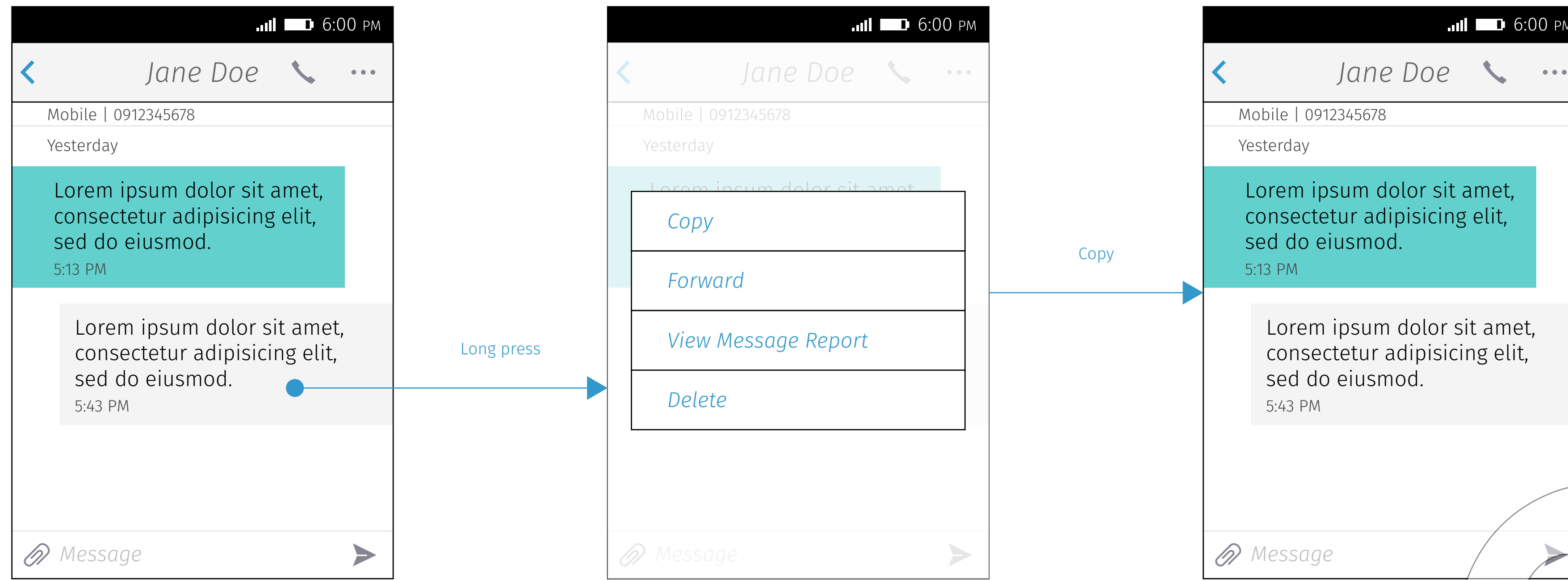


Editables will not be selected.

Image & Clipboard

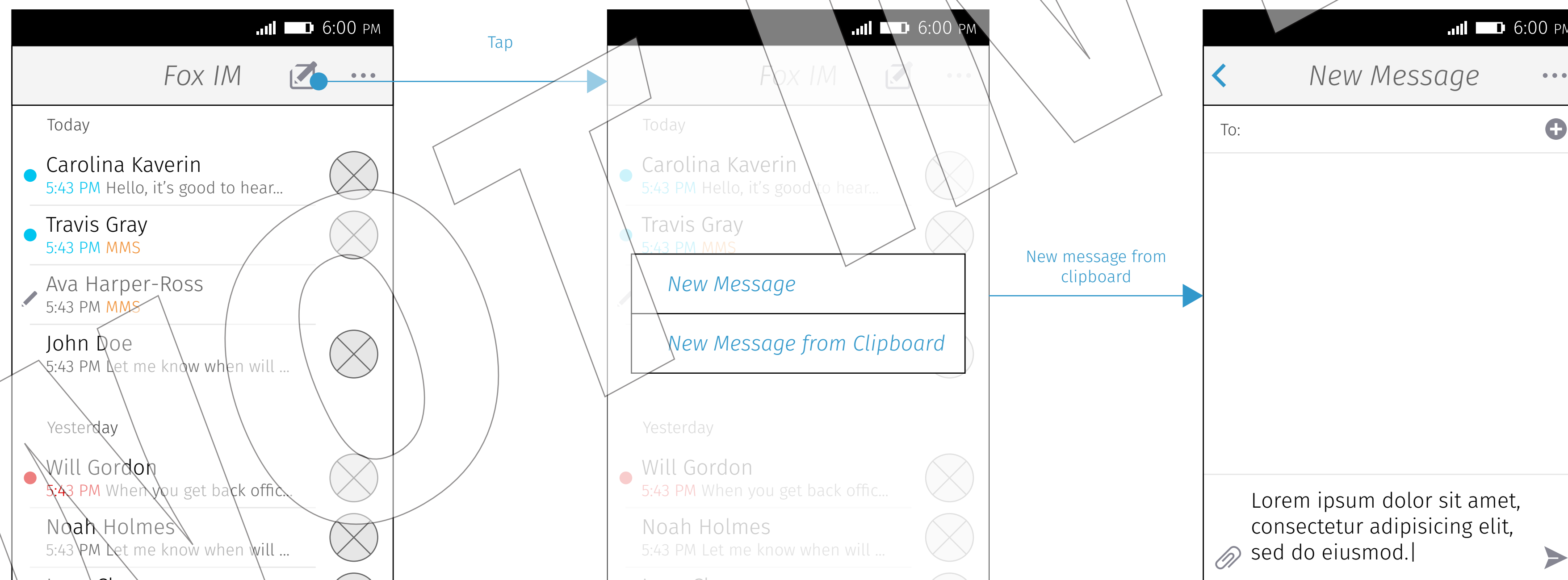
	Editables	Non-editables
Copy	2.2: NOT copied into clipboard 2.3+: Copied into clipboard	
Paste	2.2: NOT pasted from clipboard 2.3+: Pasted from clipboard	-
Cut	2.2: Delete only 2.3+: Copy and then Delete	-

Copy (Take An IM App for Example...)



The action calls an API like: `copyToClipboard()`
The long-pressed message is copied to clipboard for further use.

Paste (Take An IM App for Example...)



The action calls an API like: `pasteFromClipboard()`
It will create a new message and fill in the text from the clipboard.

SCOPE

2.2