# WritePad Handwriting Recognition Tutorial

#### WritePad Tutorial

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# **One: Program Overview**

WritePad is a new text editor for iPhone and iPad that utilizes advanced handwriting recognition input for the English language as well as iPad keyboard for text entry, and includes a spell checker, context analyzer, and standard editing operations such as copy, cut, paste, etc. WritePad's primary handwriting recognition-based input method integrates with the text editor and is developed specifically for iPad. It recognizes *cursive*, **print**, and **mixed** handwriting styles. To enter the text you can simply write with your *finger*<sup>1</sup> on the iPad screen or using the input panel in either landscape or portrait mode employing your own handwriting style. It also allows easily switching between the handwriting recognition and the standard iPad keyboard.

In the beginning, the recognition quality may depend on your style and how comfortable you feel writing on the iPad screen with your finger; however the more you use it, the better it will become as the software will adapt to your patterns. In addition, you can use simple finger gestures to select text, cut, copy, paste, insert special characters such as space and return, invoke the spell checker for the selected word, correct recognized text, and more (see the *Using Gestures* section below for a complete list of gestures).

The **Shorthand** feature offers a quick and simple way to insert often-repeated text and performs standard editing commands by writing the Shorthand name and drawing a circle around it. You can add new or modified Shorthands using the Shorthand Editor.

With WritePad you can create text documents and store them on your iPad. The built-in HTTP server allows you to exchange documents between iPad and iPhone devices connected to the same WiFi network, or to upload documents onto the desktop PC using the Internet browser. You can also send emails directly from WritePad and use copy/paste to transfer text between WritePad and other applications. In addition, you can translate your documents to other languages, obtain the current location address, create an event, and insert contact information.

The WritePad Twitter client allows users to send Twitter updates directly from WritePad. It can also display the Twitter timeline and replies to your updates, making it possible to copy, retweet, reply to Twitter updates, and search Twitter.

Synchronization with Dropbox allows sharing of WritePad text documents with other devices and computers. If you don't have a Dropbox account, just touch the **Create New Account** button in the Dropbox Login window when you synchronize WritePad for the first time.

<sup>&</sup>lt;sup>1</sup> You can get even better results by using a stylus for iPad Touch such as **AluPen** from just|mobile - http://www.xtand.net/alupen.html.

## Two: Full Screen Handwriting Mode

This tutorial introduces you to some of the **WritePad** full screen handwriting recognitionbased input method available on iPhone and iPad and how to use some 'gestures' developed specifically for iPhone and iPod Touch. Simply follow the steps outlined below to experiment and see for yourself some of the many things you can do using **WritePad**:

and

- 1. Open a document in WritePad.
- 2. Make sure you are in handwriting mode by tapping on the handwriting icon read the tips below before trying to complete the sentence.



#### Tips to improve recognition quality

- 1. Because iPhone does not support a stylus, writing with your finger may be a little more difficult at first. While the handwriting recognition engine is optimized for finger writing, a slightly longer learning curve is expected comparing to stylus text entry. Screen protection films may negatively affect digital ink flow and, therefore, quality of handwriting recognition.
- 2. Always write on the screen horizontally, not at an arbitrary angle. To help you write horizontally, turn on **gridlines**.

Draw Gridlines ON	
Gridlines may help to improve recognition.	
The,	
gui ck	
Grown	
fox	

3. Write large; do not be afraid to run out of screen space when writing long words because you can write characters of the *same word* on top of each other (the **Separate Letters** setting must be OFF).



4. Write legible. If you write 'n' like 'r', or 'u' like 'v', etc. you need to improve your style. Your handwriting does not have to be perfect, just readable.

**NOTE:** It will also help if you have Auto Learner turned on. It will learn your handwriting patterns in attempt to improve quality of recognition.

Auto Learner	ON
If ON recognizer will learn you	ur handwriting patterns.

5. You can write multiple words in each recognition session; however, if you always intend to write one word only, set the **Single Word Only** setting to **ON**.

Single Word Only	ON
If ON write one word per rece	ognition session.

- 6. Always complete the word in the current recognition session. Do not try writing only part of a word per session; it will result in bad recognition quality, because partial words are not found in the dictionary.
- 7. If you always print your characters, use the **Separate Letters** mode. Note that if this option is on, you cannot connect characters or write characters on top of each other.

Separate Letters	ON
If ON do not connect individ	dual letters.

8. Do not attempt to correct your handwriting if you made a mistake while writing, the result will be unpredictable. If you made a mistake while writing, use the **Cut** gesture to cancel the recognition session and start again.



9. The handwriting recognition engine and its dictionary are optimized for US English language only. If you use words that are not in the main or user dictionary, such as rare names, we recommend adding these words to the user dictionary.



10. If a wrong word was recognized, use the **Spell Check** gesture to bring up the **Alternatives** window. When you use the **Alternatives** window to correct the recognition mistake, the recognition engine will learn if the **Auto Learner** switch is ON.

8	Brown		Spell Checker Cance
	grown		brown
11	brawn		grown
	drown		drown
	frown		frown
	DIOWN	L	Brawn
iP	hone/iPod Tou	ch	iPad

11. To speed up the text entry, use the **Return** gesture at the end of each recognition session. Using this gesture will cancel the timeout and immediately send the recognition results to the editor.



12. Setting the **Only Known Words** switch to **ON** will improve the overall recognition quality, but this will make it impossible to write words, numbers, or any other character sequences that are not found in the user or main dictionary. If you make a spelling error in this mode the result is unpredictable, because the engine will try to find the closest word in the dictionary, which might not be the one you were trying to write.



13. If you are writing primarily numbers or capital letters, you can switch recognition modes by tapping on the **Mode** button on the toolbar.



- Numerical mode. This also includes punctuation.

NOTE: These modes are also available while using the keyboard.

- 3. Write the following sentence: "The quick brown fox"
- 4. If you have the Show Alternatives set to ON, you will see something as shown below:

8							
The	quack	grown	fox	Done	Becogniz	or Result	Cancel
the	Quack	Grown	Fox	Done	necoginz	er nesun	Calicer
Thi	quark	brown	fog		_	_	
Thr	quick	bran	for				
thi	quacks	Groin	foil	The	quack	grown	fox
she	whack	groin	FOX	the	Quack	Grown	Fox
<>	<>	<>	<>	Thi	quark	glown	toy
				Contraction in a contraction of the			

Show Alternatives ON - iPhone/iPod Touch.

Show Alternatives ON - iPad.

5. If **Show Alternatives** is set to **OFF**, then the sentence will appear without the Alternatives window. If this is the case, use the **Spell Check** gesture or tap on the

icon to invoke the Alternatives window.



The Alternatives window will appear.

The	quack	grown	fox
the	Quack	Grown	Fox
Thi	quark	brown	fog
Thr	quick	bran	for
thi	quacks	Groin	foil
she	whack	groin	FOX
<>	<>	<>	<>

Show Alternatives OFF- iPhone/iPod Touch.

The q	luack gro	wn fox		
	Done	Recognizer	Result	Cancel
1	_	_	_	
	The	quack	grown	fox
	the	Quack	Grown	Fox
	Thi	quark	glown	toy
	44.4			FOR

Show Alternatives OFF- iPad.

Of course, your results may differ, depending on how your writing is analyzed.

6. In this example, the first and last words are OK, so we don't need to change these. In the second column, tap on quick. In the third column, tap on brown. Now all your

desired words will be highlighted. Tap on the <sup>V</sup> icon or **Done** button to accept. You will now see the results below.



7. Now we will try some gestures. Use the **Select All** Gesture to select the entire sentence as shown below.



8. With the entire sentence highlighted, use the **Cut** gesture to delete the sentence.



9. Write or type the following sentence: The quick braun fox. The misspelling is intentional.



10. If you wrote the sentence and have Spell Checker turned on, there will be a wavy red

line under braun. Double-tap on the word to highlight it, then tap the **Line** icon to bring up the **Correction Window**.

The quick braun for	x	
8	braun	$\oplus$
	Braun	
<b>V</b>	broun	
	brain	
	brawn	
	bran	

Correction Window - iPhone/iPod Touch.

The quick	oraun fox	
	+ Spell Checker Cancel	
	braun	
	Braun	
	broun	
	brain	
	brawn	

Correction Window - iPad.

- 11. Since your selected word is not found in the dictionary, you will have an option to add it to the user dictionary by touching the Gor Houton.
- 12. If you choose to add it, it will appear in the user dictionary as shown below.

Options User Dictionary Edit
User Defined Words
braun
broun
iPhone
iPod
iTouch
Jim
PenCommander
PenOffice
PhatNotes

13. The User Dictionary is found in the  ${\it Options}$  window. To go to the  ${\it Options}$  window, tap

on If you decide you want to delete or add a word to the dictionary, touch Edit User Dictionary, then tap the Edit button. The User Dictionary will appear.

Opti	ons User Dictionary Done
Us	er Defined Words
•	<pre><enter new="" word=""></enter></pre>
•	braun
•	broun
•	iPhone
•	iPod
•	iTouch
0	Jim
0	PenCommander
	PenOffice

14. To add a new word, tap in the **enter new word** window. The keyboard will appear.

Type in your new word and tap on  $\bigoplus$  to add it to your dictionary.

To delete a word, tap on the  $\bigcirc$  next to the word to delete, then tap on the **Delete** button, then click **Done**.

Opti	ons User Dictionary Done
Us	er Defined Words
•	<pre><enter new="" word=""></enter></pre>
0	braun Delete
•	broun
•	iPhone
•	iPod
•	iTouch
•	Jim
•	PenCommander
	PenOffice

15. If you notice that a specific word is often recognized as a different word, you can add this word to the Autocorrector word list. Go to the **Options** window and touch **Edit Autocorrector List**, then tap the **Edit** button. The Autocorrector will appear.



16. Tap in the **new word correction** window. The **Edit Word** window will appear.

Autocorrector Edit Word				
Edit Autocorrector Word				
<pre><enter misspelled="" word=""></enter></pre>				
<pre><enter correct="" word=""></enter></pre>				
Always Replace ON				
Ignore Case ON				
Disabled OFF				

17. Tap in the **enter misspelled word** window. Type in your misspelled word. Do the same in the **enter correct word** window with the correct word spelling, then touch the **Done** button on the keyboard.

Autocorrector Edit Word				
Edit Autocorrector W	ord			
hep				
help				
Always Replace	ON			
Ignore Case	ON			
Disabled	OFF			

- If the Always Replace switch is ON, the word is always replaced; otherwise the word is replaced only if the recognition engine alternatives contain the replacement word.
- If the Ignore Case switch is ON, words are compared in lower case.
- If the **Disabled** switch is **ON**, the word replacement is disabled. This is useful to disable a specific word replacement without removing it from the list.
- 18. Tap **Autocorrector** when you are finished. The new word pair will appear at the top of the list.



**NOTE:** When returning to the autocorrector list, the new word correction will be in alphabetical order.

To delete a word pair, tap on the  $\bigcirc$  next to the word to delete, then tap on the **Delete** button, then click **Done**.

To change a word pair, tap on the pair (either in list or edit mode), and perform the changes as shown above when entering a new pair.

### **Three: More Gestures**

1. Our fox from the previous tutorial is not done yet. Write "jumps over a lazy dog." to add to the previous sentence you created.



- 2. Select "fox jumps over a lazy dog" by using one of the following two methods:
  - (1) Touch and hold your finger to the left of the word fox. After you hear a sound or the device vibrates (depending on chosen options), drag your finger to the end of the sentence to select the text.
  - (2) Draw a line from the first character you want to select to the last character and hold your finger at the last character until you hear a sound or the device vibrates The selected words are now highlighted.
- 3. Now use the **Backspace** gesture as shown below.

The quick brown fox jumps over a lazy dog.	
←	

The selected text is erased.



4. Now, insert a carriage return (equivalent to pressing [ENTER]) by using the Return gesture. Make sure that the horizontal part of the gesture is at least twice as long as the vertical part.



Note that the cursor moves down one line.



- 5. Now use the **Backspace** gesture again to erase the carriage return and move the cursor back to the top line.
- 6. To add a character in the middle of a word, position the cursor by touching once at the desired location. For instance, tap the word **brown** between the **b** and the **r** to position the cursor, then use the **Space** gesture.







7. Use the **Backspace** gesture to remove the space.



8. You may use your finger to change individual letters. For example, highlight the letter **b** in **brown** by touching and holding your finger on the screen until the **Edit** menu appears, then touch the **Select** button. Now drag your finger to the desired end location to select the text (in this case, drag to the right of the letter **b**). The letter **b** is now highlighted. Write the letter **c**.



The word changes to crown.



9. To delete a character to the right of the cursor, in this example place the cursor between the w and n in crown, and use the **Delete** gesture.



The n will be deleted.



**NOTE:** To avoid interference with handwriting, both the **Backspace** and **Delete** gestures must have a minimum length as set in the **Scroll Gestures** option.

Scroll Gestures	
Minimum length of scroll/dele	ete gestures (100-300pt)

10. You may also select and replace entire words. For example double tap on the word **crow** and write **red**.



This produces the following result:



11. To copy selected text, highlight quick by double tapping on it, and use the Copy gesture to copy the word.

The quick r	ed	
	<b>&gt;</b>	
	←───	

12. Now tap between quick and red, then use the Paste gesture.



quick appears twice.



13. To undo the previous action, use the **Undo** gesture.



The sentence reverts to only one quick.

The quick red		

NOTE: You can undo and subsequently redo your last 20 editing actions.

14. The best way to write a period or any other punctuation such as a comma, backslash, etc. is to use the **Punctuation Keyboard**. To bring up the keyboard, use the **Keyboard** gesture when nothing is selected in the editor.



The Punctuation Keyboard appears.

The quick red	
, : ; ! ? " "   @ & % # \$ /   \\   @ & % # \$ /   \\   @ & % # \$ /   \\   @ & % # \$ /   \\   @ & % # \$ /   \\   = - + * ^ ~ _ \ \   [ ]  > [ ] { } \	

15. Tap on the **period** button to add the period. It will be inserted at the current cursor location. The keyboard will automatically disappear after you touch the desired key or touching anywhere outside the keyboard window when not entering any characters.



16. You can also use Scroll gestures to scroll up or down a page for large documents, as you normally would with an iPod or iPod touch. However, in order to avoid interference with your handwriting, the scroll gesture has to be a minimum length as defined in the Scroll Gestures setting in the Options window. This will also be the setting for your Delete and Backspace gestures.





## Four: Correcting Individual Words

If you make a mistake while writing or want to use a different word? No problem. **WritePad** allows you to correct individual words quickly and easily as shown in this tutorial:

- 1. Open a document in WritePad.
- 2. Write "The quick brown fox".



3. Highlight the word **brown** and use the **Spell Check** gesture or tap on **brown** to launch the spell checker window for the selected word with possible alternatives. Move the stroke from left to right and make the gesture large, with the right leg much higher than the left one as shown below.



The Correction Window appears.

The quick brown fox		
8	Brown	
	grown	
<b>V</b>	brawn	
	drown	
	frown	
	blown	

*Correction Window - iPhone/iPod Touch.* 

The quick b	rown fox			
	Spe	ll Checker	Cancel	
	brown			
	grown			
	drown			
	frown			
	Brawn			

Correction Window - iPad.

4. The window displays multiple alternatives returned by the spell checker for the highlighted word. For the *iPhone/iPod Touch*, tap the word grown and tap . For the *iPad*, just tap the word grown. grown will replace brown.

#### The quick grown fox

## Five: Handwriting Panel

The WritePad handwriting panel is available only on iPad devices.

1. To enter the Handwriting Panel mode, tap on the *section* icon on the top toolbar.



2. To enter text, write on the input panel between the lines in your preferred handwriting style (the Input Panel supports a single line of handwritten text). You can write one or more words per recognition session, but always complete the entire word in each session and ignore intermediate results because the dictionary is used to find best results, which will appear in the recognition results window (the pane above the input panel). Write "The quick brown fox"

My Documents	A 😵	Writel	Pad: WritePad	
WritePad fo mixed hand	r iPad Advance writing styles.	ed handwriting recogr	iition software for iPa	d for cursive (script), print, and
5 9 4	~ A 👫	Q	Q	\$
The qui	ck brown	fox		
The	eq	vick	Gro	WN fox

When you are done writing, touch the Return button to insert the recognized text at the cursor location.



NOTE: If you always print, you may want to enable the Separate Letters option.

- 4. Insert a period at the end of the entered sentence by touching the button.
- 5. With the input panel blank, touch the **Return** button . This will insert a return at the current cursor location to move the cursor down to the next line.
- 6. Now write "The quick brown foxy" in the input panel.

My Documents 🛛 🎸 🌎	WritePad: WritePad	
WritePad for iPad Advanced har mixed handwriting styles. The quick brown fox.	ndwriting recognition software for iPad for cur	sive (script), print, and
🔊 🔍 🖌 👫 🔍	् ् ्	٥
The quick brown for	xy	
The qu	ick Grown	(foxy

7. Now we want to remove the y from foxy. Touch the **Backspace** button twice. You need to touch the button twice since the **Backspace** button *deletes only the last stroke*, and it usually takes two strokes to write the y. The recognition results window will adjust the results for each touch of the Backspace button.

My Documents 🧼 🌎 WritePad: WritePad		
WritePad for iPad Advanced handwriting recognition software for iPad for cursive (script mixed handwriting styles. The quick brown fox.	), print, and	
	٥	3
The quick brown foci	_ <b>←</b> ←	L
The quick Grown F	o_X_\	

First backspace touch.

My Documents 💝 🌎	WritePad: WritePad
WritePad for iPad Advanced handwriting mixed handwriting styles. The quick brown fox.	recognition software for iPad for cursive (script), print, and
🔊 🛯 🖌 🛧 🔍	Q 🔅
The quick brown fox	$\vdash \rightarrow$
The quic	K Grown Fox

Second backspace touch.



- 8. Touch the Return button \_\_\_\_\_ to insert this sentence.
- 9. For this sentence, we want to insert an exclamation point at the end of the sentence

instead of a period. Hold the button until the punctuation keypad appears, then touch the !button.



- 10. Touch the Return button again to move the cursor to the next line.
- 11. If the recognizer returns an unexpected result, touch the incorrectly recognized word in the recognition results window to view alternatives. Write "The quick broun fox" Touch broun in the recognition results window.

My Do	cuments 🎯 🅎	WritePad: WritePad
Writ mixe The	ePad for iPad Advanced handwri ed handwriting styles. :	ting recognition software for iPad for cursive (script), print, and
Inc	broun	
	Broun	
	brown	
	Braun	
5	Brown	0 ä
The	e quick broun fox	. ← .
	The qu	ick brown fox

- 12. Select brown.
- 13. But since we already have this sentence in the document, to clear the input panel and

cancel the recognition session, touch the space button

14. To use the built-in calculator, write "23.4+11.3=" in the input panel. The = symbol at the end of the equation is required to invoke the calculator. The answer automatically appears in the recognition results window.



Touch the Return button to add the calculation to the document. Touch the Return button again to move the cursor to the next line.

15. Finally, we want to end the document with a signature block. Touch the Shorthand button



The Execute Shorthand dialog appears.

My Documents 🧼 🌎	WritePad: WritePa	xecute Shorthand Cancel	
mixed handwriting styles.	User-De	fined Commands	
The quick brown fox.	addr		
The quick brown fox!	info		
<u>23.4+11.3</u> =34.7	sign		
1	url		
	Predefin	ned Commands	
	an		
	com		
\$ \$ \$ \$ \$ \$ \$ \$ \$	сору		۵
		·	⊢⊣

16. Touch sign to add the signature block to the document.



See the Users Guide to learn about adding user-defined commands.

# Six: User Dictionary and Autocorrector

- The User Dictionary is found in the Options window. To go to the Options window, tap on
- 2. If you decide you want to delete or add a word to the dictionary, touch **Edit User Dictionary**. The **User Dictionary** will appear.

Options User Dictionary Edit
User Defined Words
braun
broun
iPhone
iPod
iTouch
Jim
PenCommander
PenOffice
PhatNotes

3. Tap the **Edit** button.



4. To add a new word, tap in the **enter new word** window. The keyboard will appear.

Type in your new word and tap on  $\bigcirc$  to add it to your dictionary.

To delete a word, tap on the  $\bigcirc$  next to the word to delete, then tap on the **Delete** button, then click **Done**.

Opti	ons User Dictionary Done
Us	er Defined Words
•	<pre><enter new="" word=""></enter></pre>
0	braun
•	broun
•	iPhone
•	iPod
•	iTouch
•	Jim
•	PenCommander
	PenOffice

5. If you notice that a specific word is often recognized as a different word, you can add this word to the Autocorrector word list. Go to the **Options** window and touch **Edit Autocorrector List.** The **Autocorrector** will appear.

Options Autocorrector	Edit
Autocorrector Word List	
1'm -> I'm	>
1m -> I'm	>
aboot -> about	>
abouta -> about a	>
aboutit -> about it	>
abscence -> absence	>
accessories -> accessories	>
accidant -> accident	>
accomodate -> accommodate	>

#### 6. Tap the Edit button.



7. Tap in the **new word correction** window. The **Edit Word** window will appear.

Autocorrector Edit Word	
Edit Autocorrector Wor	ď
<pre><enter misspelled="" word=""></enter></pre>	
<pre><enter correct="" word=""></enter></pre>	
Always Replace	ON
Ignore Case	ON
Disabled	OFF

8. Tap in the **enter misspelled word** window. Type in your misspelled word. Do the same in the **enter correct word** window with the correct word spelling, then touch the **Done** button on the keyboard.

Autocorrector Edit Wo	rd
Edit Autocorrector W	/ord
hep	
help	
Always Replace	ON
Ignore Case	ON
Disabled	OFF

- If the Always Replace switch is ON, the word is always replaced; otherwise the word is replaced only if the recognition engine alternatives contain the replacement word.
- If the Ignore Case switch is ON, words are compared in lower case.
- If the **Disabled** switch is **ON**, the word replacement is disabled. This is useful to disable a specific word replacement without removing it from the list.
- 9. Tap **Autocorrector** when you are finished. The new word pair will appear at the top of the list.



**NOTE:** When returning to the autocorrector list, the new word correction will be in alphabetical order.

To delete a word pair, tap on the 🗢 next to the word to delete, then tap on the **Delete** button, then click **Done**.

To change a word pair, tap on the pair (either in list or edit mode), and perform the changes as shown above when entering a new pair.

# Seven: Using Shorthand Commands

The Shorthand feature offers a quick and simple way to insert often-repeated text and performs standard editing commands by writing the Shorthand name and drawing a circle around it. You can add new or modify Shorthands using the **Shorthand Editor**, which is accessible from the Options dialog.

WritePad offers several built-in Shorthands:

- cut copies selected text to the clipboard and deletes it
- **copy** -copies selected text to the clipboard
- paste inserts the text from the clipboard at the current cursor location
- undo undoes last editing action
- redo redoes previously undone action
- date inserts the current date using the current locale at the current cursor location
- time inserts the current time using the current locale at the current cursor location
- dt inserts date and time using the current locale at the current cursor location
- com inserts www..com at the current cursor location and places the cursor between the dots
- org inserts www..org at the current cursor location and places the cursor between the dots
- net inserts www..net at the current cursor location and places the cursor between the dots
- www inserts *http://www*. at the current cursor location
- **ftp** inserts *ftp://ftp*. at the current cursor location
- all selects all text in the note editor
- save saves the current file without prompt, assigns generic name if name is not specified.
- new creates a new Shorthand from the selected text

For example, let's take our sample from the previous tutorial and add a url to learn more about quick brown foxes:

The quick brown fox can be found at:

Use the **com** command to add the necessary parts of any url:



This command results in:



Notice the cursor is conveniently located where you can simply add the address.

The quick brown fox can be found at: <u>www.brownfox.com</u>

Now let's add a date to the end of our document. Write the date command:



This will add today's date at the cursor position:



Since we seem to be typing "The quick brown fox" frequently, we can do this quicker by creating our own Shorthand command. To do this, highlight "The quick brown fox", then use the **new** command.



The Shorthand Editor will appear with the highlighted text.

Cancel	Shorthand	Save
Enter	Shorthand Name>	
The quic	k brown fox	
QWE	RTYU	ΙΟΡ
AS	DFGHJ	KL
ۍ ک	XCVBN	M 💌
.?123	space	Done

Now just add a shorthand command in the Enter Shorthand Name box, and touch Save.



So now anytime you feel the need to begin a sentence with this phrase, just use your new **qbf** shorthand command.

(-f)	
(9, D)	

This results in the following:

#### The quick brown fox