

# Handwriting in Digital Age



Satoru Shinagawa

# Handwriting



# Handwriting

Helps memorization

More Creative

Can concentrate effectively

Nihei (1986), Medwell, Wray (2010)

Konnikova (2014)



# Digital Age How's handwriting?



Most people  
type

Less time to  
write with pen





# iPad Pro - Sept. 2015

\$799.00



Pressure Sensitive Apple Pen

# iPad Pro - Sept. 2015



32 GB - \$799

128GB - \$949

256GB - \$1099



Pencil - \$99

# iPad (6th gen) - March 2018



32 GB - \$329  
128GB - \$429

32 GB - \$799  
128GB - \$949  
256GB - \$1099

# Apple Pencil

20 ms latency  
pressure sensitivity and angle detection

Virtually no lag  
Increase Pressure for Thicker Lines  
Tilt for Shading





# Handwriting Input

2 Ways



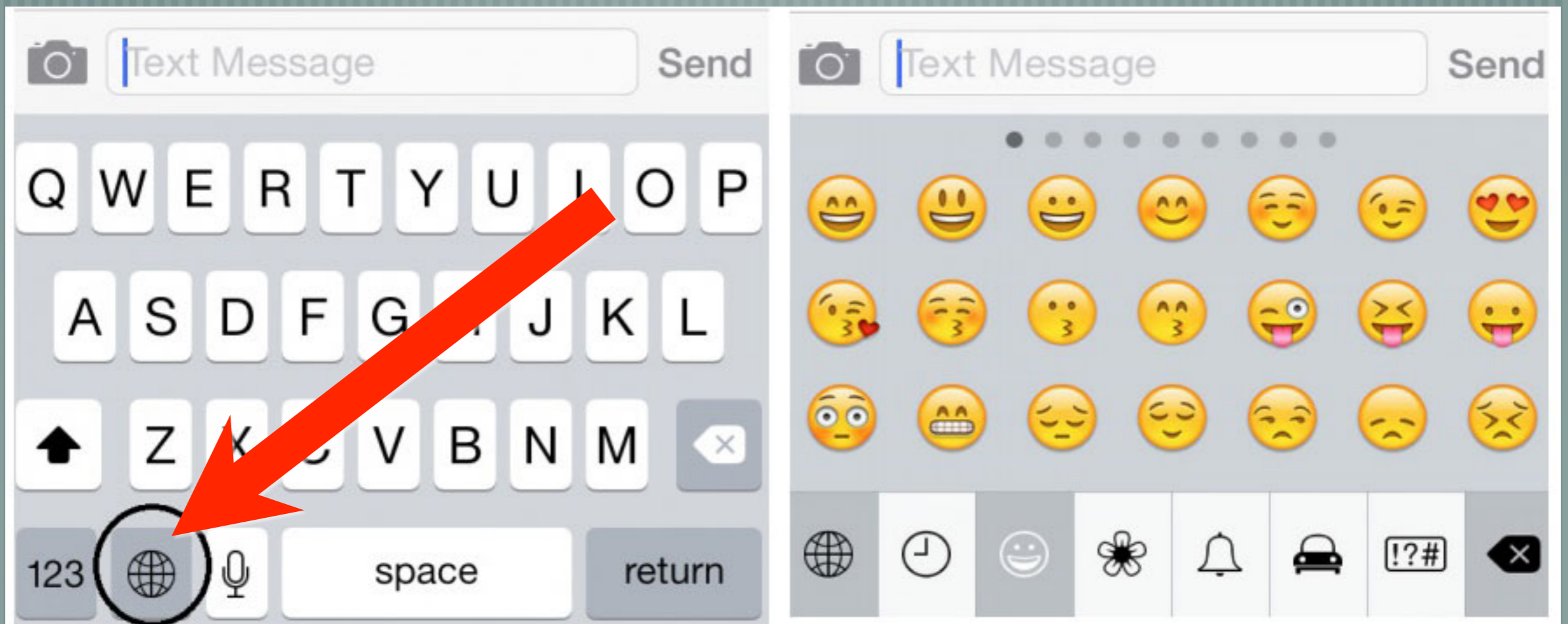
Add handwriting input system

Add handwriting App

# Handwriting Input System

Similar to Choosing Emoji

Change English Keyboard to Emoji input menu

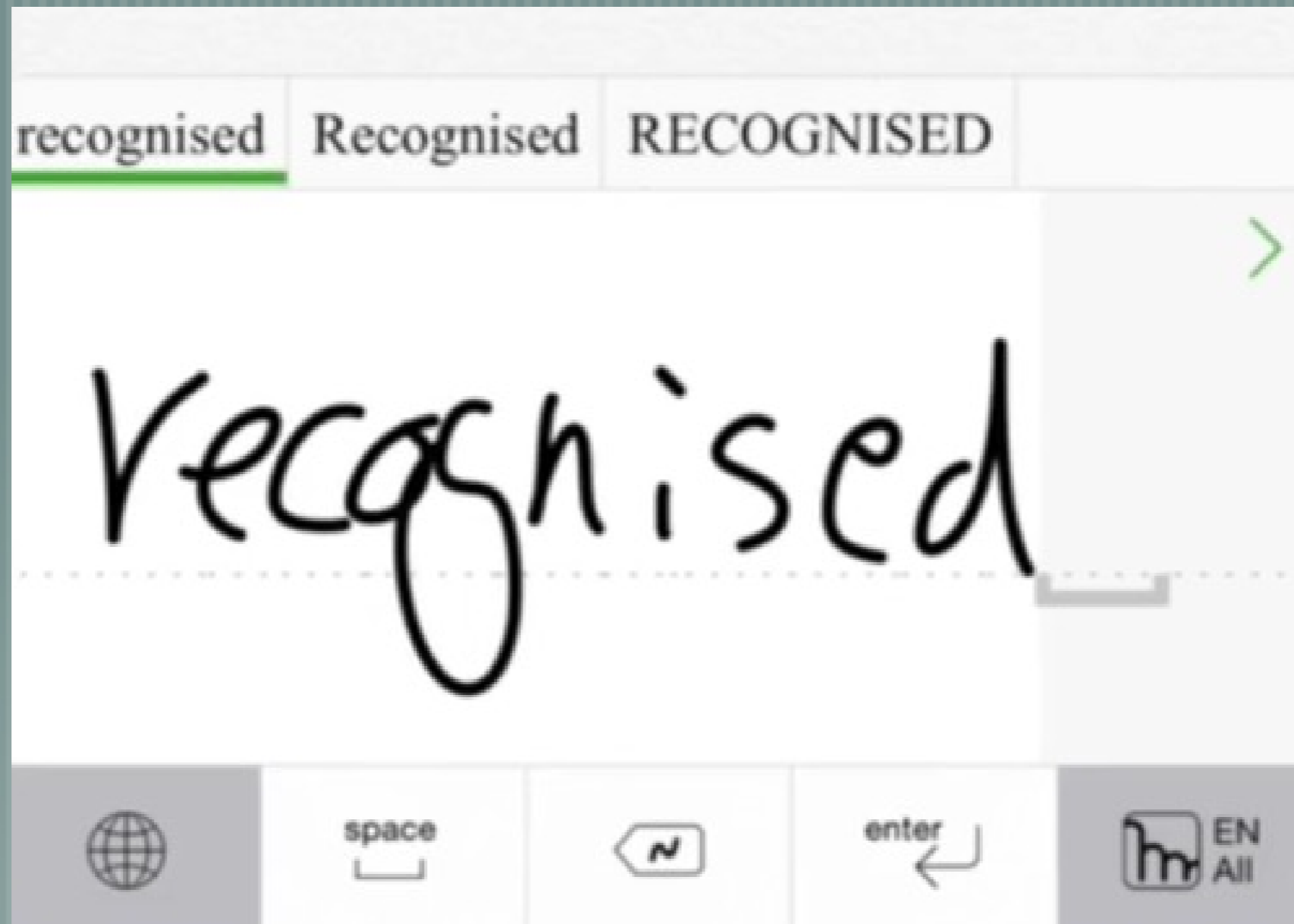


# Handwriting Input System

mazec \$12.99 (iOS, Android, Windows)  
Handwriting \$3.99 (iOS)



# mazec



English, Japanese, Spanish, French,  
German, Chinese, Russian, Korean,  
Portuguese, Italian



# Handwriting App



Note App

Write Characters



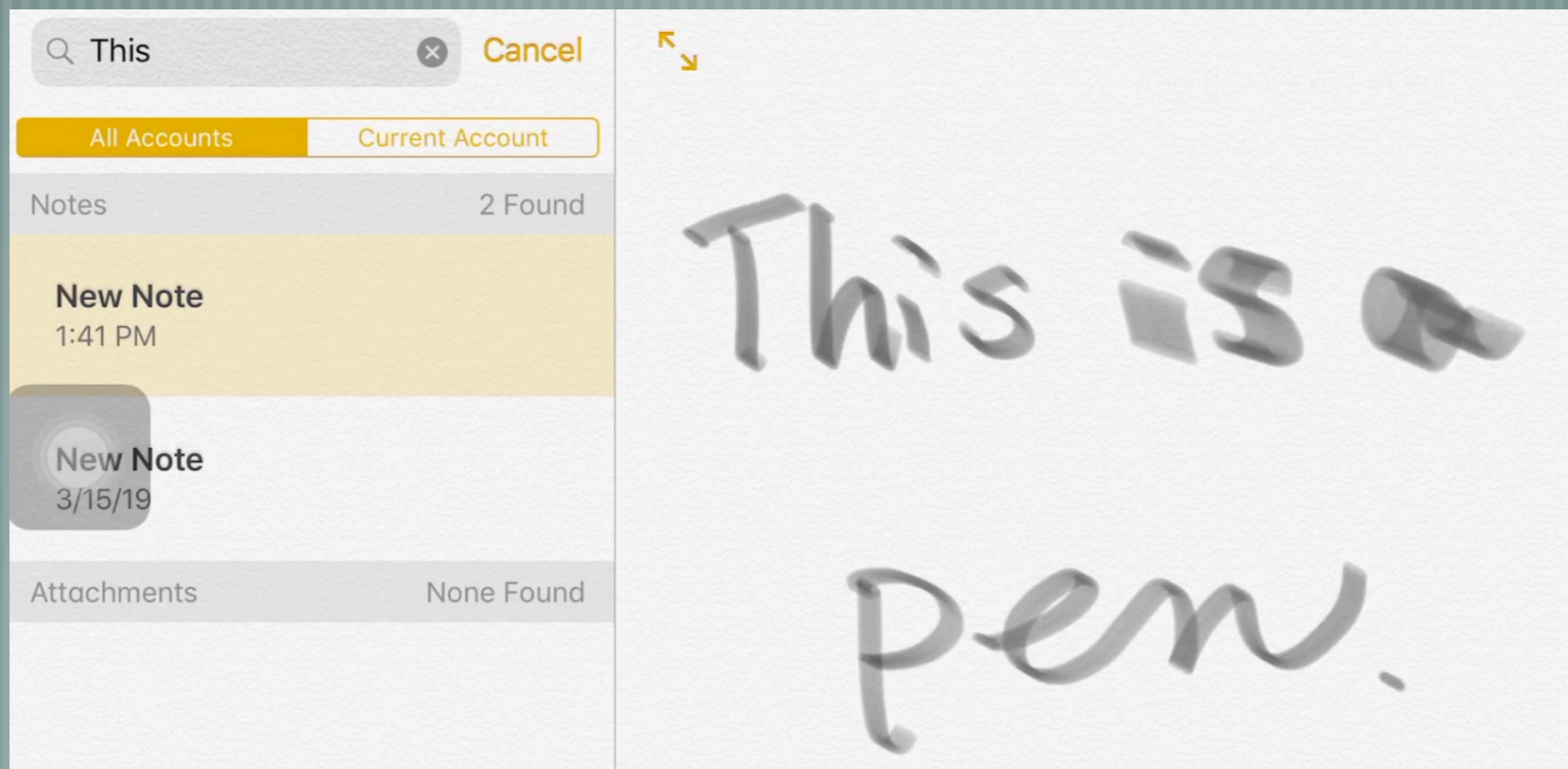
Memo  
Notability  
Speak Me

筆談 (communication by writing)

# Memo (built-in)



Search handwritten characters - English only





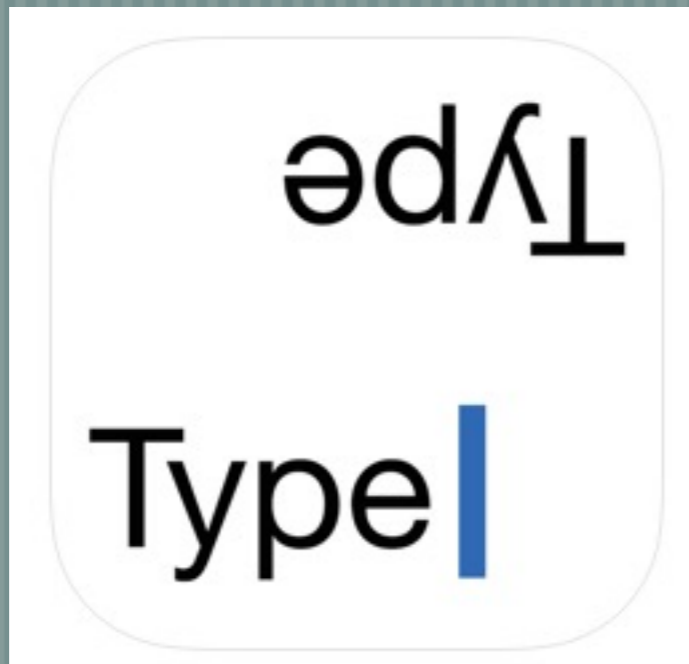
# Speak Me

\$11.99

Speak out handwritten sentences

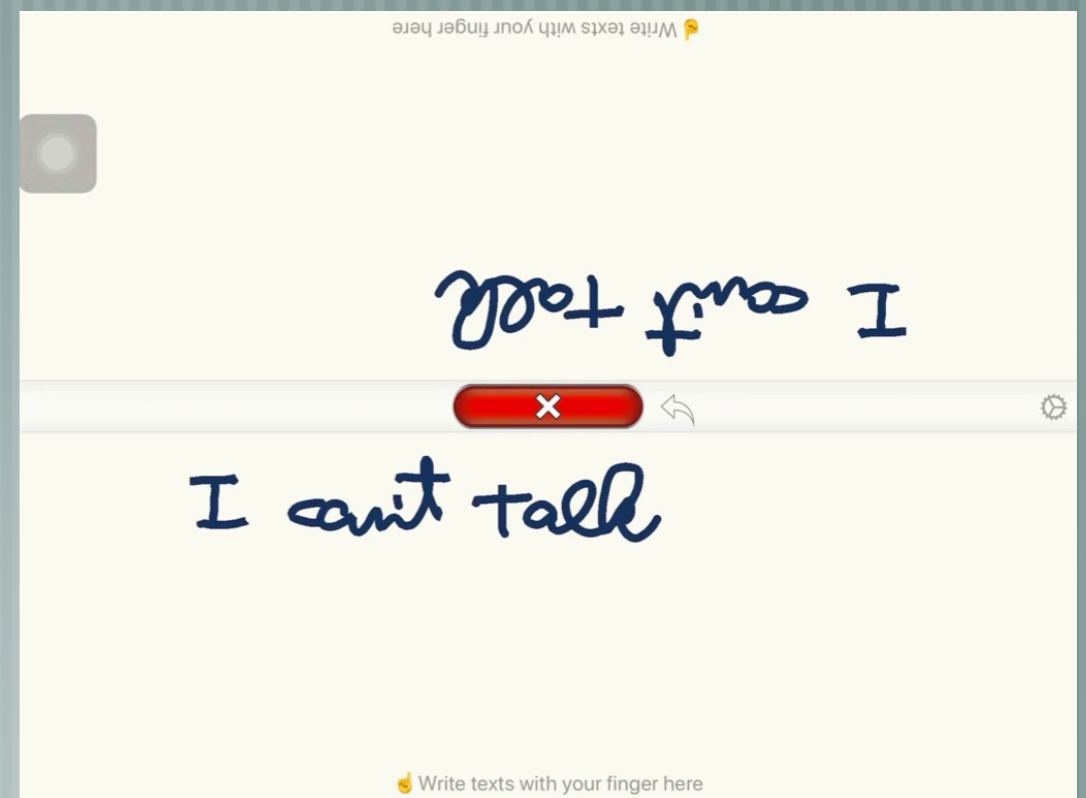






free

For people who  
can't hear or talk



# Handwriting Input

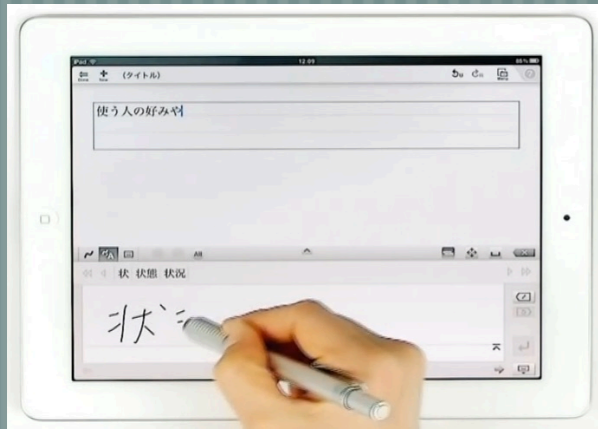
2 Ways



Add handwriting input system

Add handwriting App

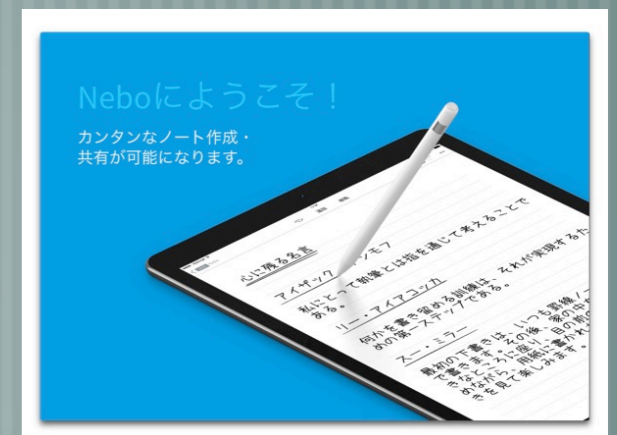
# App's for handwriting



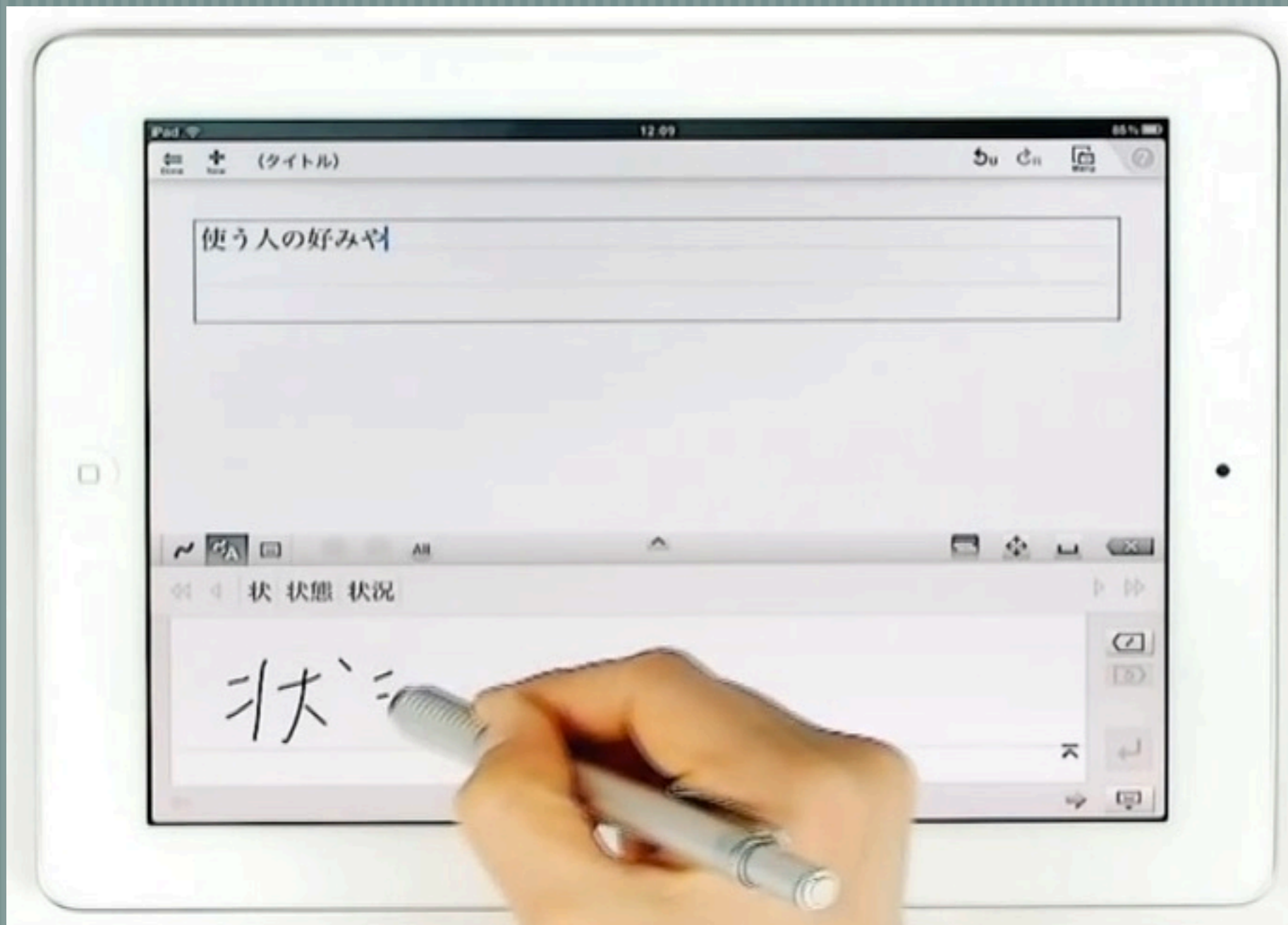
7 notes SP - \$9.99

Notes Plus - \$9.99 (iOS, Android)

Nebo - \$7.99 (iOS, Android)



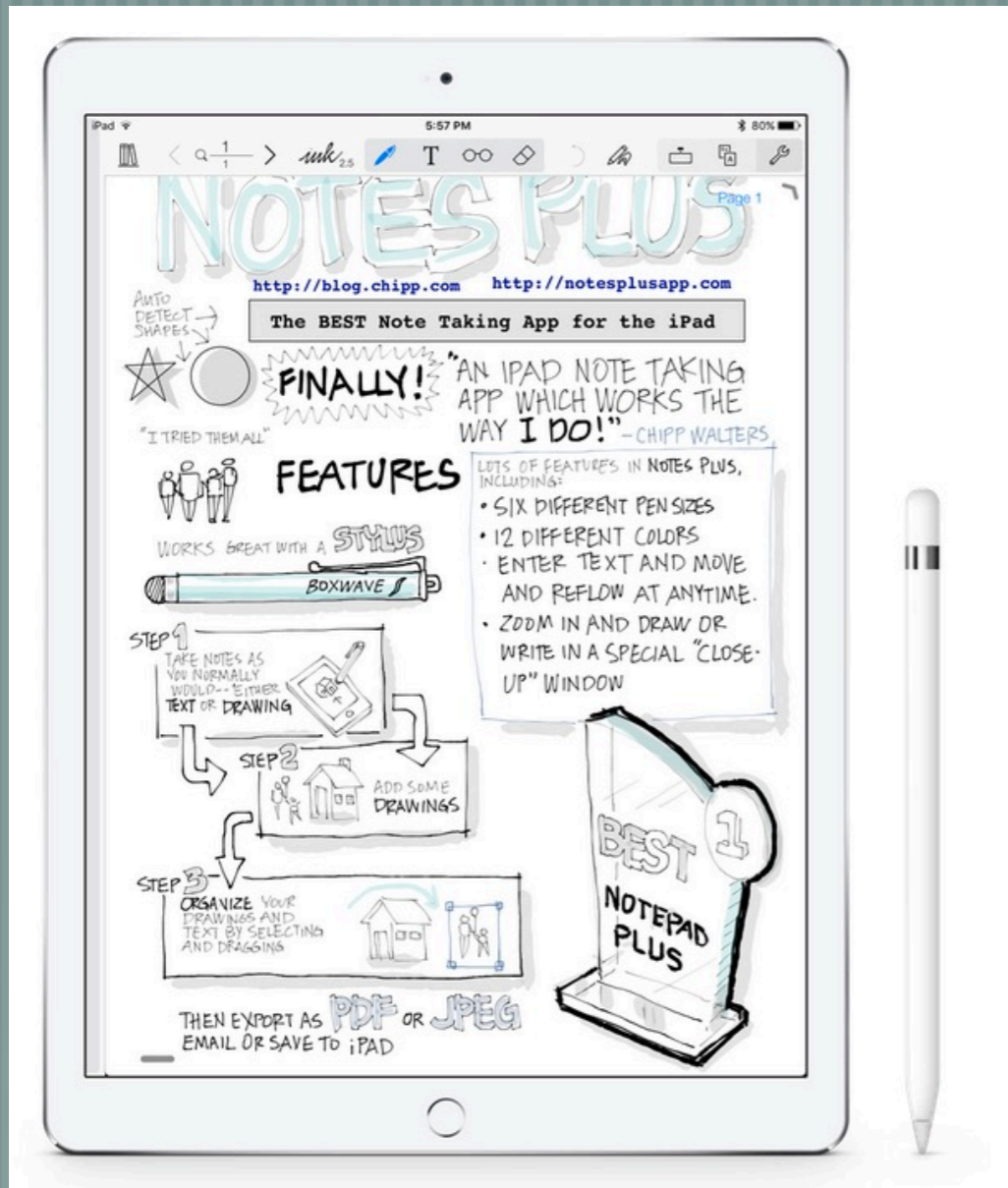
# 7notes SP - Handwriting App



\$9.99  
English  
Japanese



# Notes Plus



\$9.99

English, French, German, Italian, Japanese, Korean, Portuguese, Russian, Simplified Chinese, Spanish, Vietnamese

# Nebo

\$7.99

English,  
French,  
German,  
Italian,  
Japanese,  
Korean,  
Portuguese,  
Russian,  
Simplified  
Chinese, Spanish,  
Traditional  
Chinese

Neboによろこそ！

カンタンなノート作成・  
共有が可能になります。



# Nebo

Nebo / My folder / Nebo vide reduxdux / Page 1 of 1

EN-US Nebo vide reduxdux

Pen

Add

Search



0.35



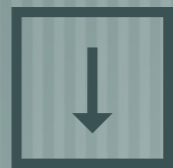
Every time you see the text recognized, that's a double tap

Every time you see the text recognized, that's a double tap

Every time you see the text recognized, that's a double tap

# How can this be used for language teaching?

Correct  
Stroke Order



Important

- can write faster
- can write beautifully
- easy to identify
- Palm writing-reading



# 音

音

音

音

音

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音

音 音樂 音源 音声 音感 音響



JP

All

音

盲 盲目 盲学校 盲導犬 盲腸 盲



JP

All

盲

音

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晴 晴れる 晴れ 晴れて 晴天 晴雨兼用



JP

All

晴

暗 暗記 暗号 暗黙 暗闇 暗い 暗く



JP

All

暗 晴 ...

晴



晴

晴

晴 暗 ...  
晴

樂

樂 樂 樂 樂 樂

樂 樂 樂 樂

樂 樂 樂 樂

楽 楽だ 楽器 楽しい 楽しく 楽しみ



JP

All

楽

弄 弄び 弄ぶ ろう



JP

All

楽



樂

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樂

Handwriting App  
can be used to  
follow correct  
stroke order

# Thanks for listening



satoru@shinagawa.us

