

Input Devices

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Intro HCI
04/11/2013

Input Devices

Keyboard and Mouse

Keyboard and Mouse

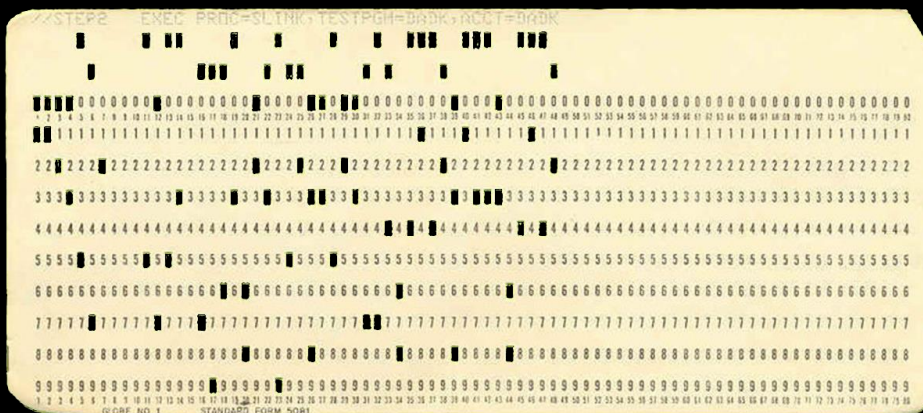
Switches and Dials



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Keyboard and Mouse

Keypunch and punch cards



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Keyboard and Mouse

First keyboards

**Touchdown™ Keytop Expanders**

Increases hard-to-reach and reduced-size keytops to maximum surface area. Keytop Expanders fit neatly over present control keys and are secured by a special adhesive which won't damage keyboards if keytops are removed. Keytops are constructed of rigid plastic in black or gray for compatibility with IBM PC or PC look-alike keyboards. Each command is printed in English in addition to the original arrow symbol.

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Keyboard and Mouse

Mechanical to membrane



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Keyboard and Mouse

Variations



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Keyboard and Mouse

Even more variations



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Chorded keyboard



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QWERTY



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Old keys: System request



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Old keys: Scroll lock



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Keyboard and Mouse

Old keys: Pause / Break



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Keyboard and Mouse

Alternative layouts: Dvorak

~ `	! 1	@ 2	# 3	\$ 4	% 5	^ 6	& 7	* 8	(9	) 0	{ [	}]	← Backspace
Tab ⇐⇐	" ,	< ,	> .	P	Y	F	G	C	R	L	? /	+ =	 \
Caps Lock ⇧	A	O	E	U	I	D	H	T	N	S	- _	Enter ↵	
Shift ⇧	:	Q	J	K	X	B	M	W	V	Z	Shift ⇧		
Ctrl	Win Key	Alt								Alt Gr	Win Key	Menu	Ctrl

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Keyboard and Mouse

Alternative layouts: Colemak

~	! 1	@ 2	# 3	\$ 4	% 5	^ 6	& 7	* 8	(9	) 0	_ +	= <	Backspace
Tab	Q A	W A	F A	P O	G	J D	L L	U U	Y U	: O	{ <	} >	;
Backspace	A A	R	S	T	D	H	N N	E E	I I	O O	" O	'	Enter
Shift	Z A	X	C C	V E	B	K	M	< >	= >	? /	Shift		
Ctrl	Win Key	Alt	Space NBSP					AltGr	Win Key	Menu	Ctrl		

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Keyboard and Mouse

Mouse 1.0



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Keyboard and Mouse

Mouse 2.0



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Keyboard and Mouse

Mouse layout



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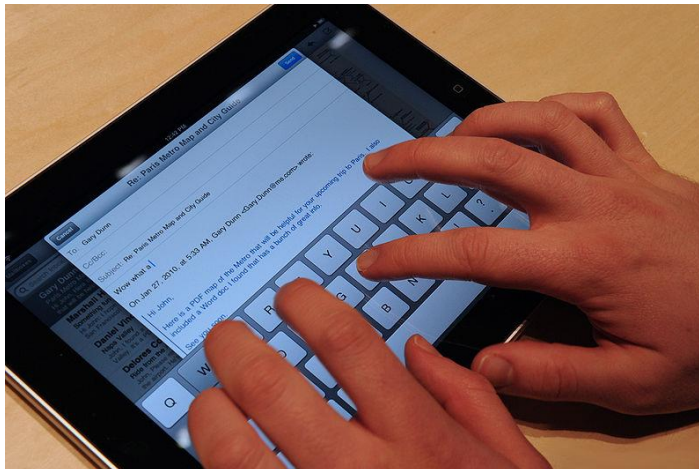
Input Devices

Alternatives

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Alternatives

Touchscreen



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Alternatives

Voice



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Alternatives

Gesture



KINECT™
for  **XBOX 360.**

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Beyond: Mouse and Keyboard

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orbiTouch



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Metamorphe Keyboard



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GaussBits



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Beyond: Mouse and Keyboard

iRing



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Beyond: Mouse and Keyboard

Magic Finger



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MetaSkin



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Beyond: Touchscreen

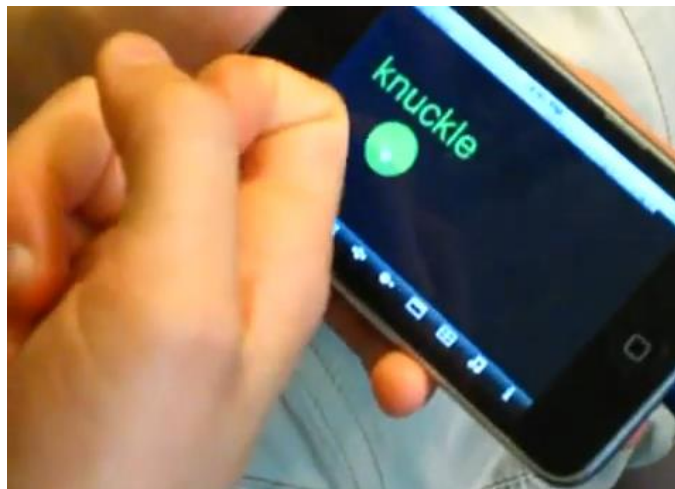
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Shear input



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TapSense



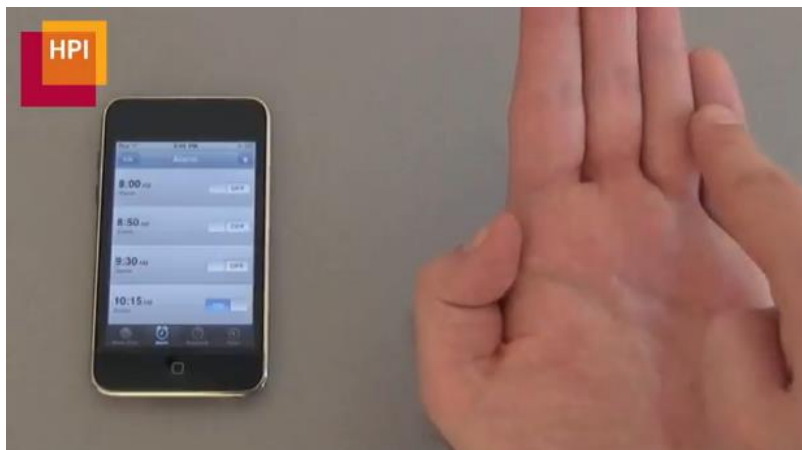
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Multitouch forcefield



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Imaginary Phone



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Skinput



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Beyond: Gestures

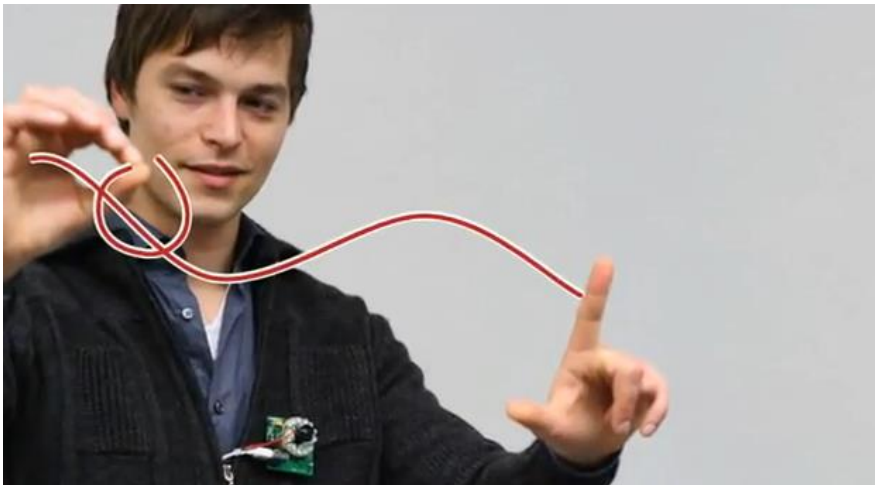
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Wired glove



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Imaginary interfaces



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SpaceTop



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Picture References

Information and Pictures:

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