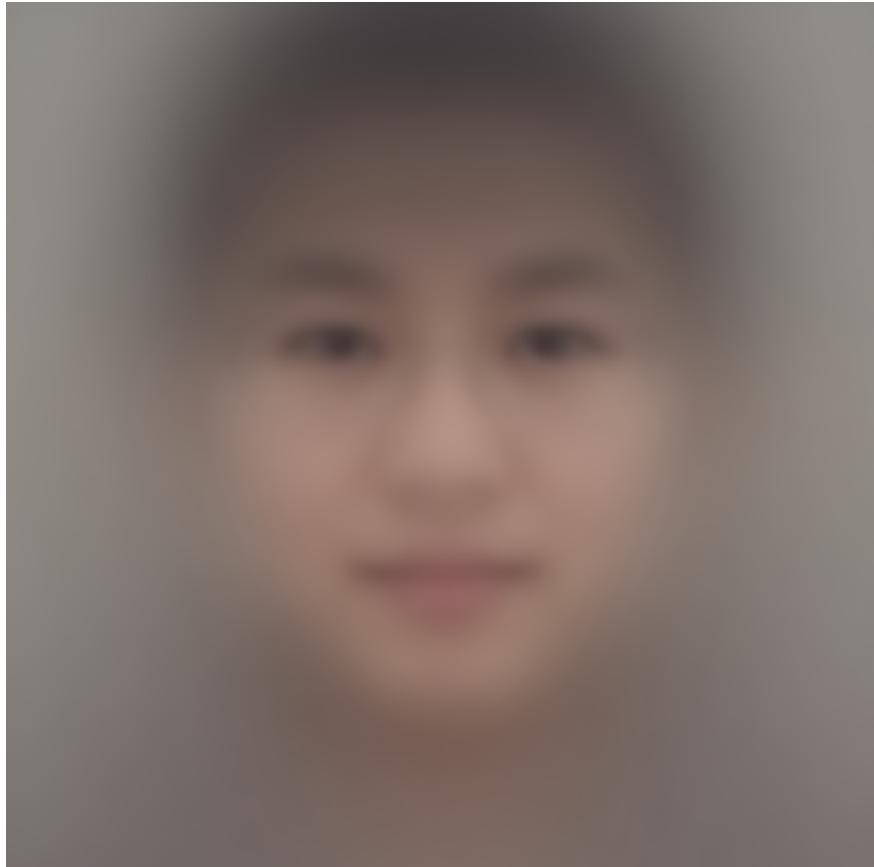


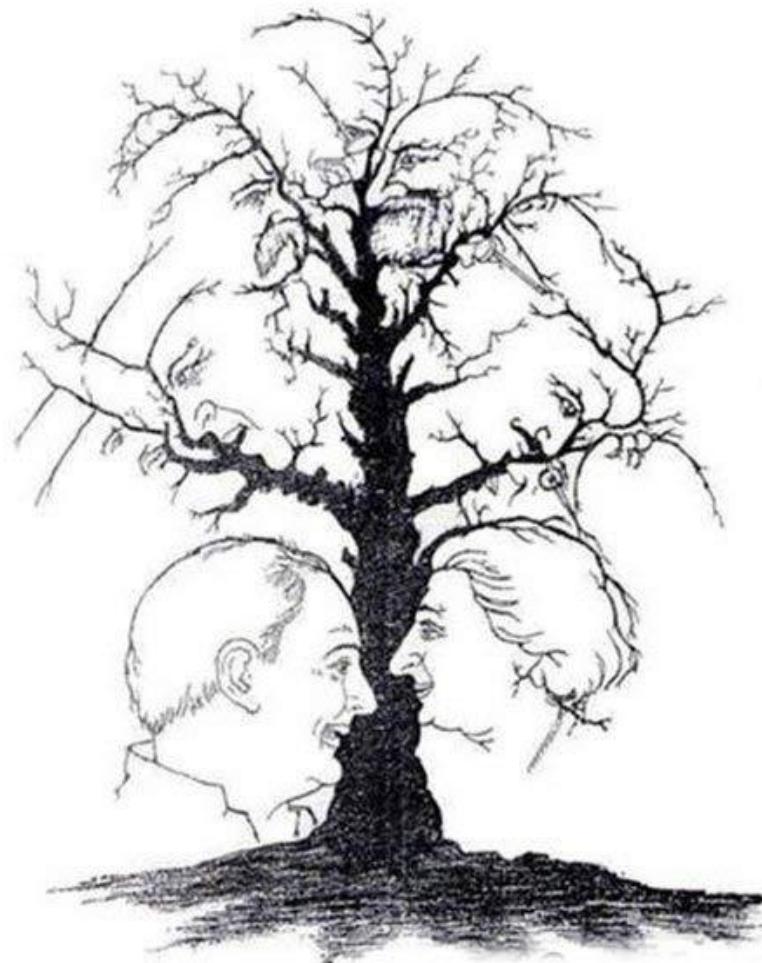
Understand Face with GPU *and beyond*

Shuchang ZHOU
zsc@megvii.com
Jan. 27, 2015

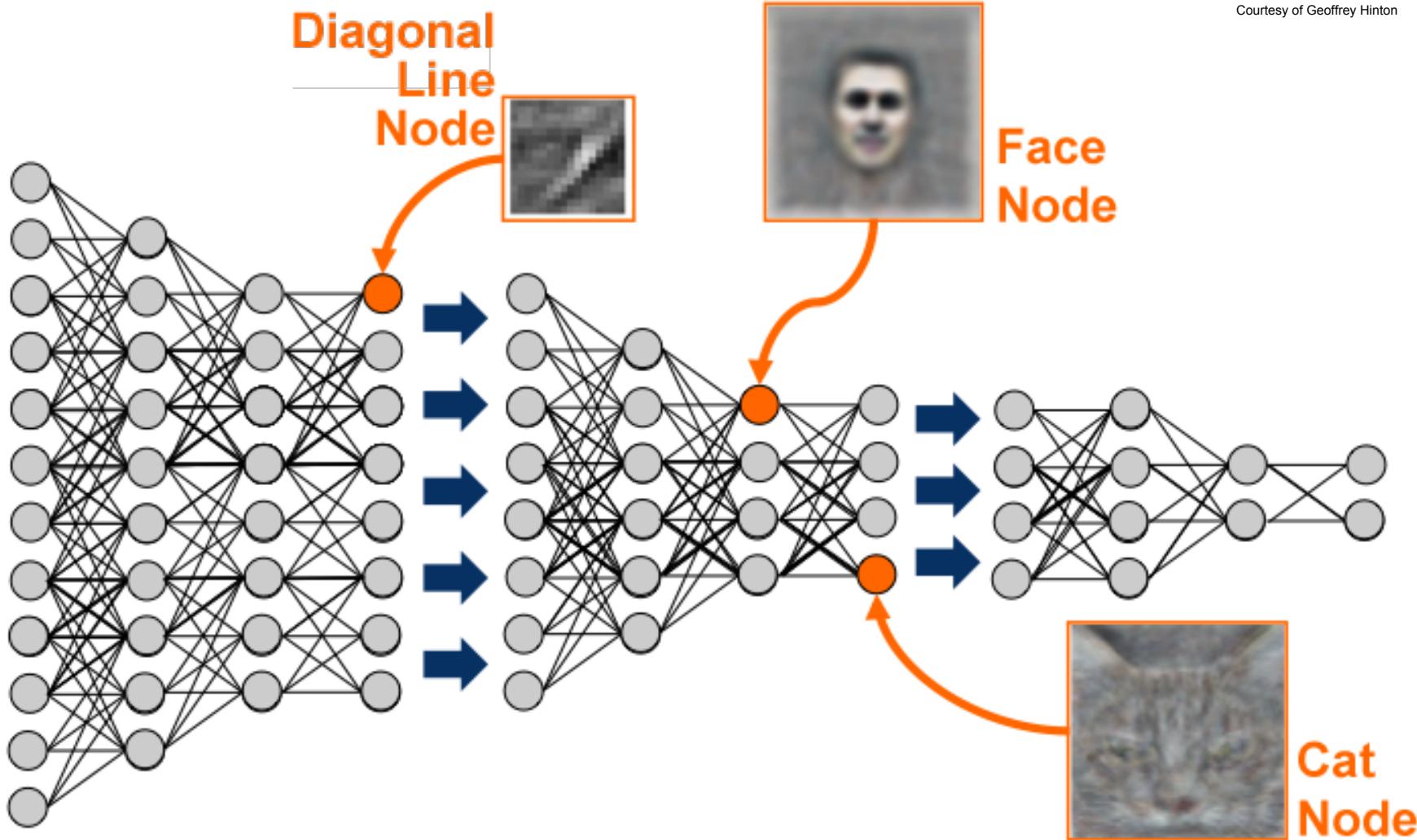
Face



Average of 4839 aligned faces

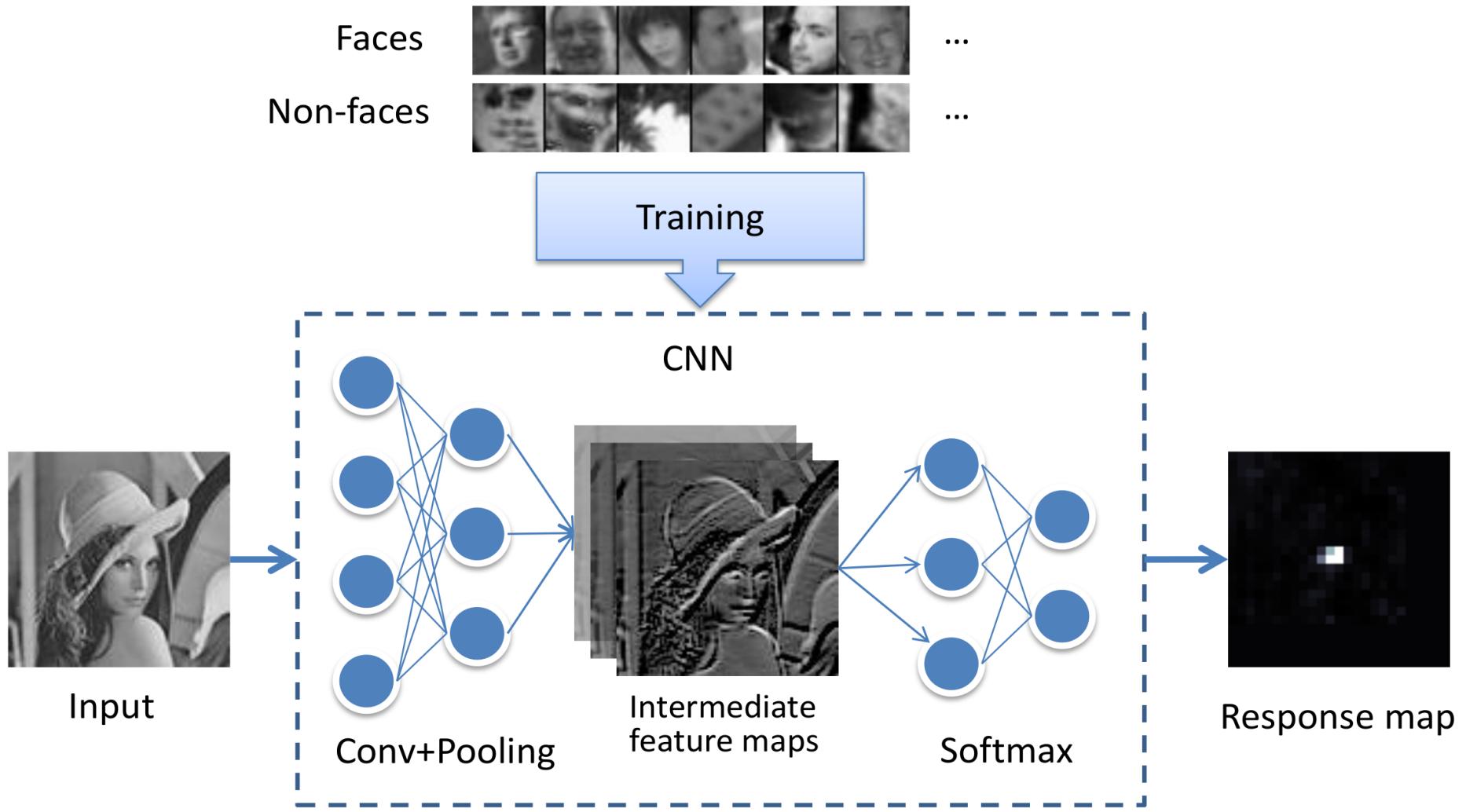


Brain





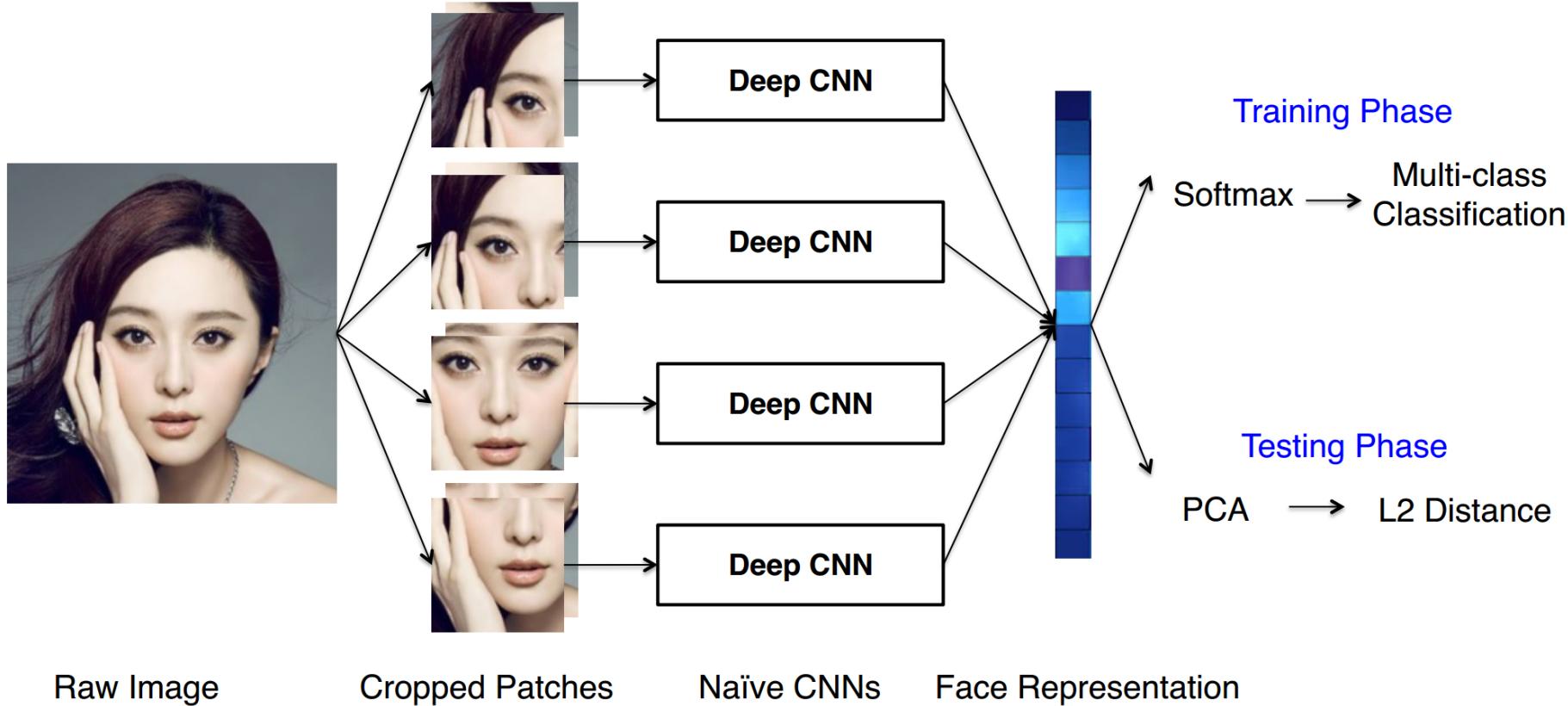
Face Detection

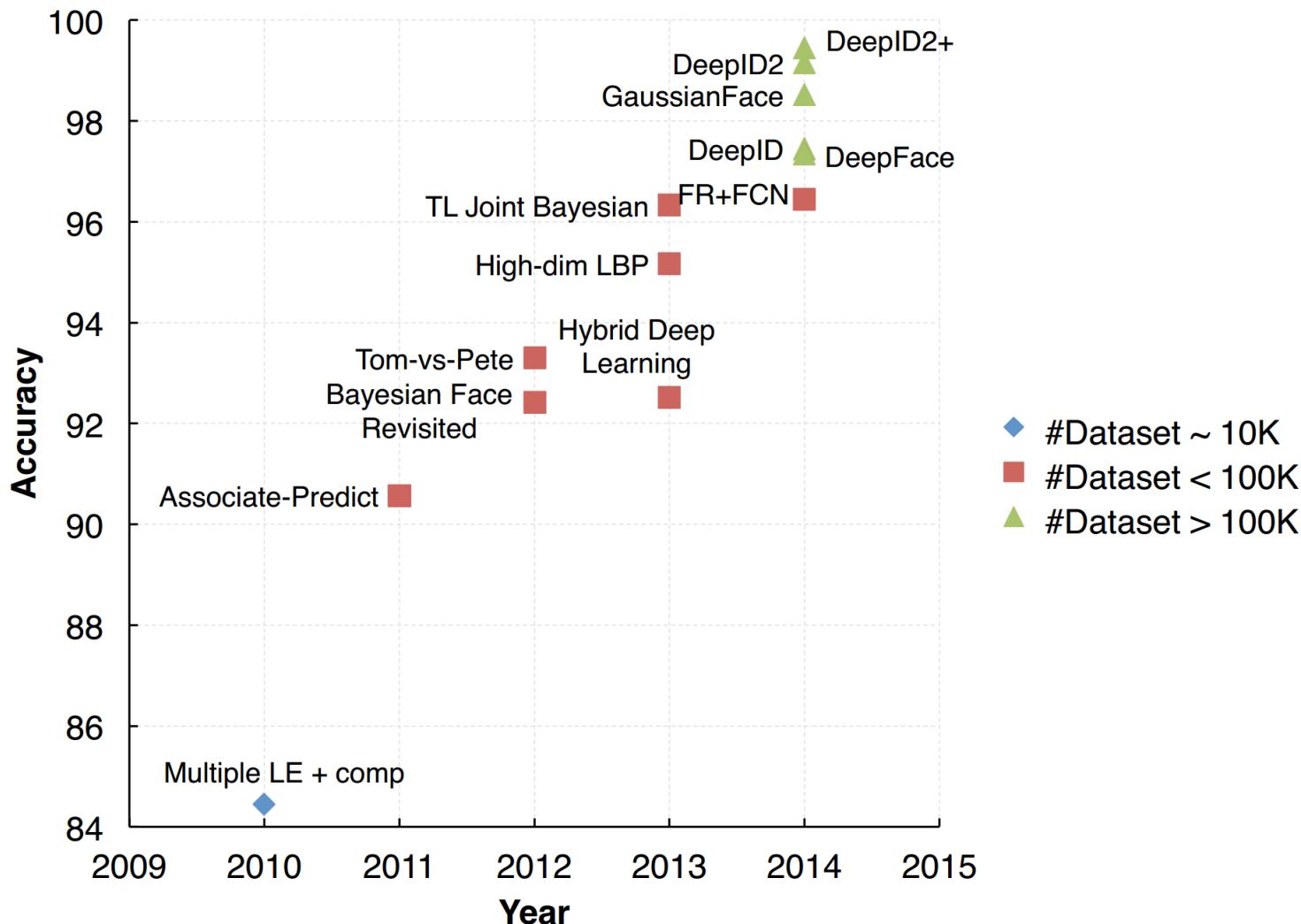


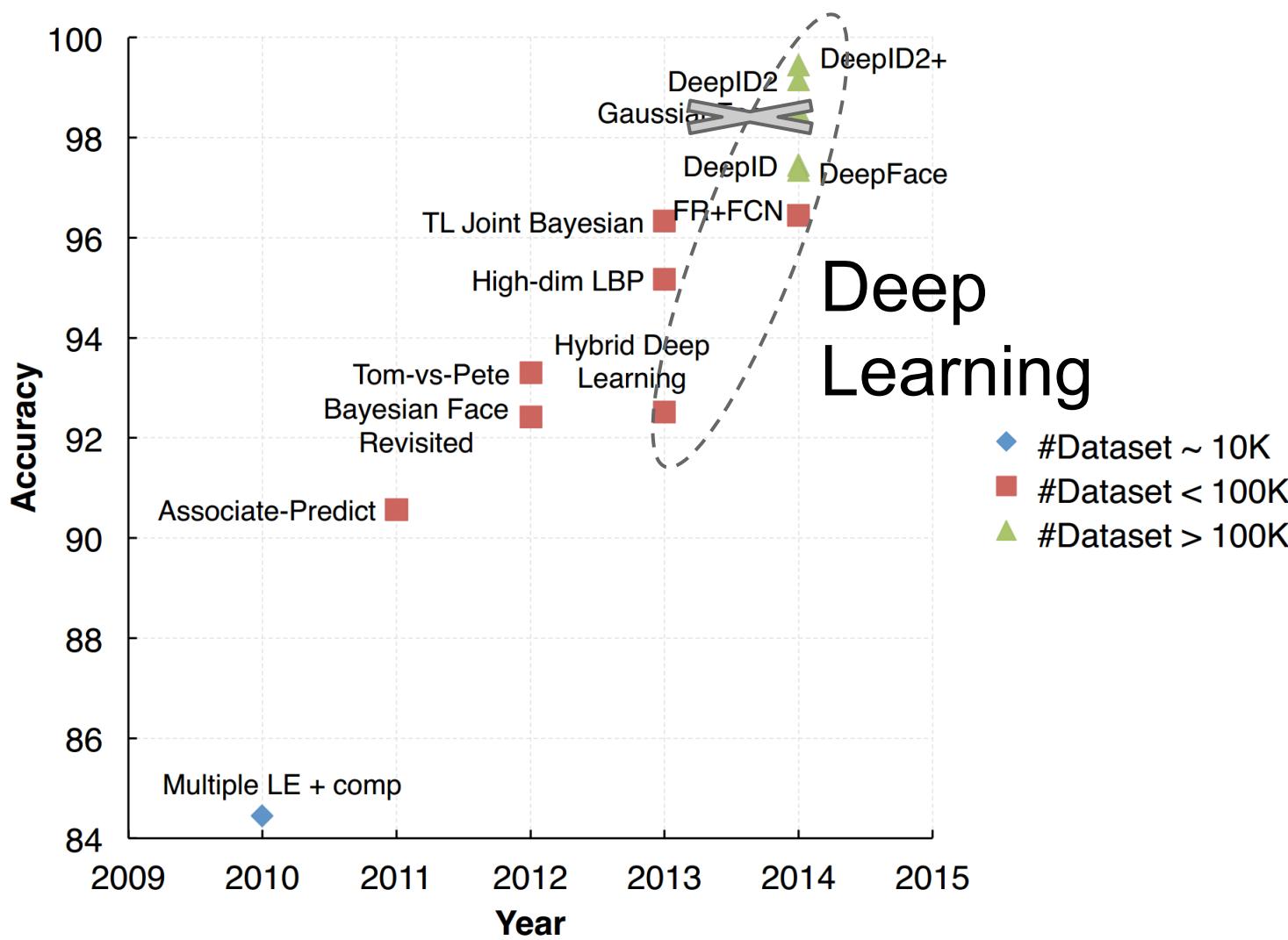


<http://en.wikipedia.org/wiki/Pareidolia>

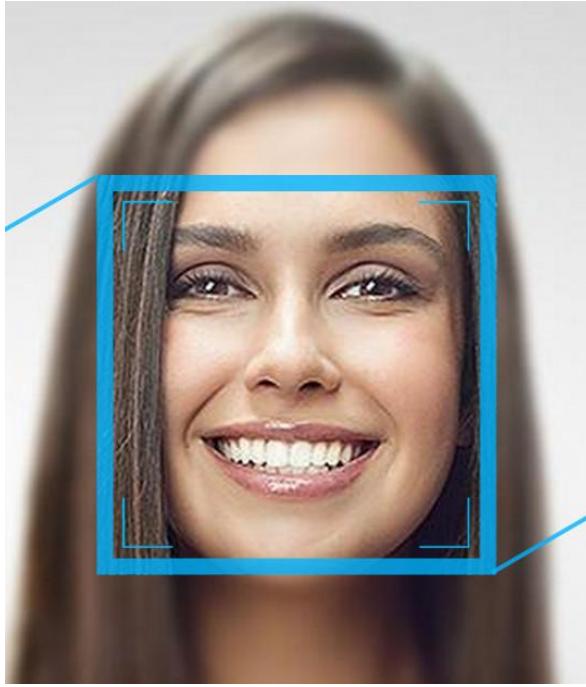
Face Recognition



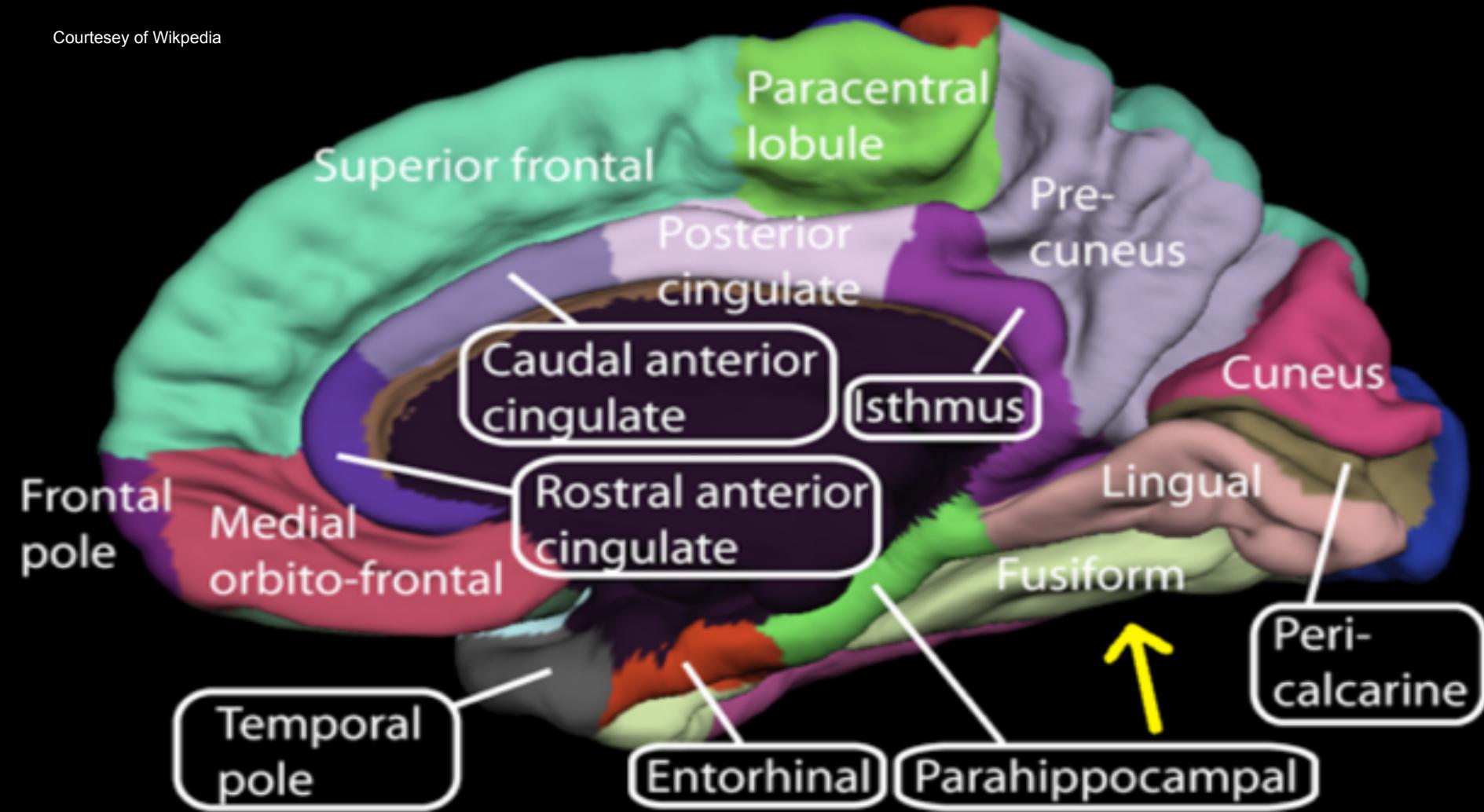




Text



凹



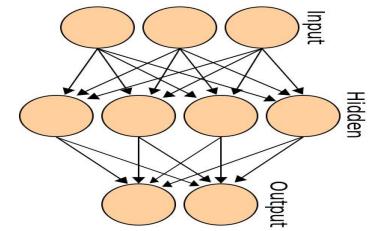
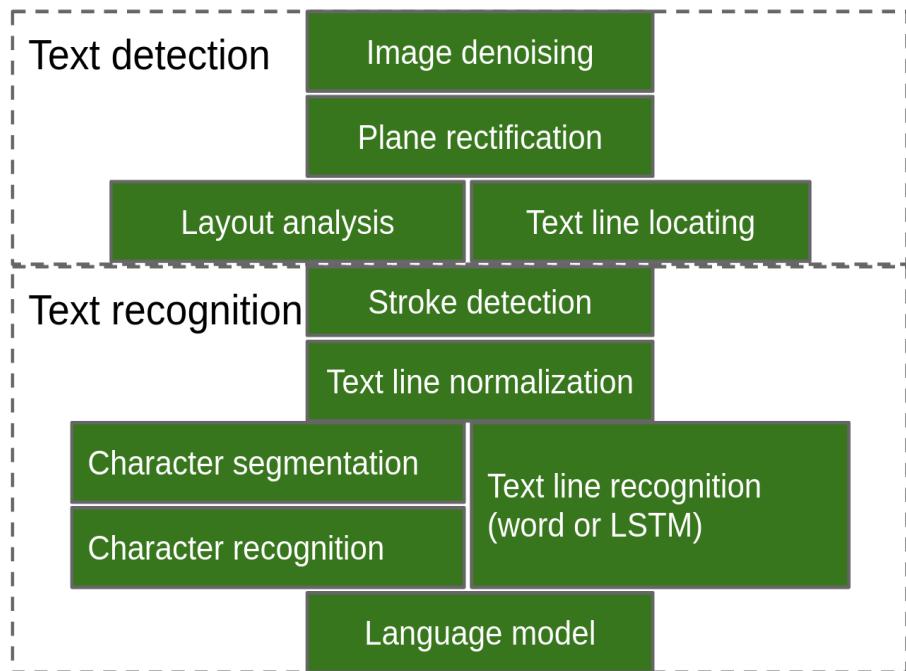
Low recall result for visualization

永和九年歲在癸卯暮春之初會於會稽山陰之蘭亭脩禊事也羣賢畢少長咸集此地有崇山峻領茂林脩竹又有清流激湍映帶左右引以為流觴曲水列坐其次雖無絲竹管絃之盛一觴一詠亦足以暢敘幽情是日也天朗氣清惠風和暢仰觀宇宙廣之大俯察品類之盛所以游目騁懷足以極視聽之娛信可樂也夫人之相與俯仰一世或取諸懷挹悟言一室之內或因寄所託放浪形骸之外雖趣舍萬殊靜躁不同當其欣於所遇暫得於己快然自足不知老之將至及其所之既倦情隨事遷感慨係之矣向之所欣已矣猶不能不以之興懷況脩短隨化終期於盡古人云死生亦大矣豈不痛哉每覽昔人興感之由若合一契未嘗不臨文嗟悼不知何足以妄齊彭殤爲妄作後之視今亦猶如今之視昔悲夫故列叙時人錄其所述雖世殊事異所以興懷其致一也後之視今亦猶如此悲夫

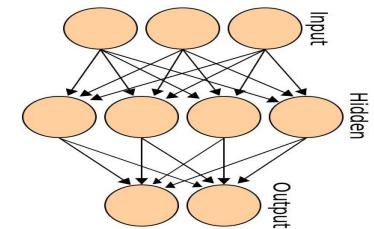
patch

P	P	P	o	o	u	u	y	y
a	a	a	u	u	s	s	n	n
3	3	3	l	l	C	C	R	R
o	o	o	f	f	o	o	H	H
E	E	E	C	C	Z	Z	h	h
I	I	I	i	i	U	U	y	y
s	s	s	A	A	A	A	a	a
a	g	g	H	H	N	N	h	h
W	W	W	Y	Y	i	i	F	F
s	s	s	n	n	u	u	L	L
U	U	U	i	i	A	A	O	O
P	P	P	W	W	o	P	x	X
e	e	e	w	w	Q	Q	C	c
f	f	f	c	c	N	N	n	n

Modern OCR Engine



Greenstead

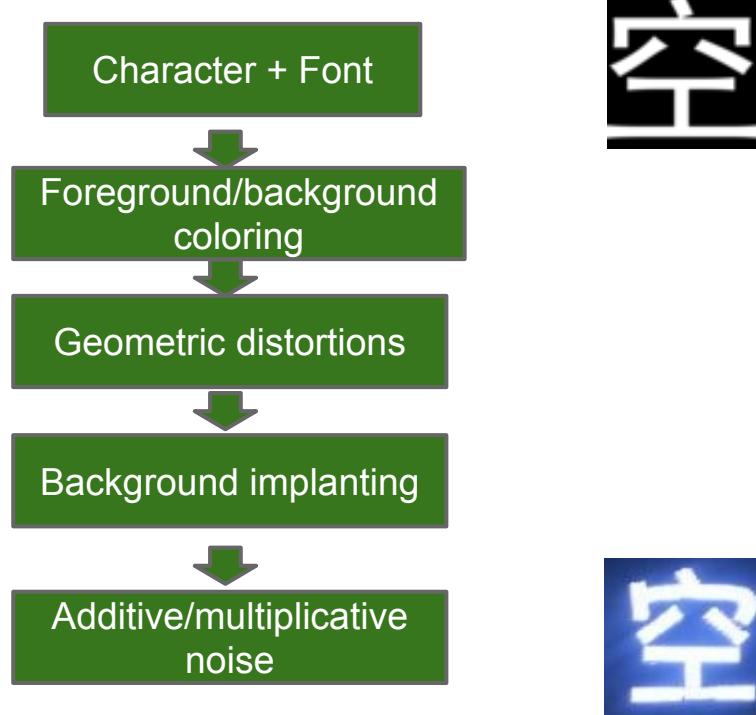


Greenstead

Synthesis

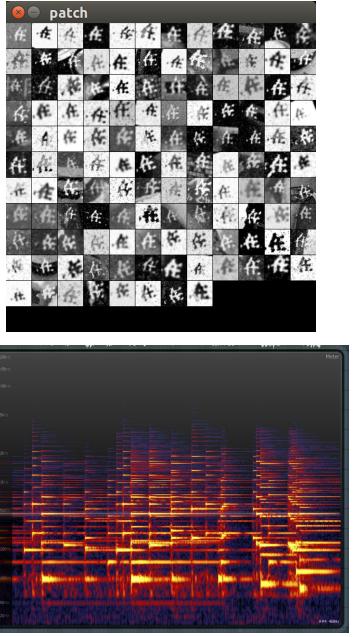
The image displays a grid of Chinese calligraphy samples for the character '謝' (Xie). The grid is organized into several rows. The first row contains eight large characters, each with a corresponding artist's name above it: 陸東之, 欧阳询, 蔡襄, 村上三岛, 杜牧, 近人, 敬世江. The second row contains eight medium-sized characters with names: 李邕, 李邕, 林瀚, 柳公权, 陆東之, 梅调鼎, 米芾. The third row contains eight medium-sized characters with names: 米芾, 米芾, 米芾, 米芾, 唐寅, 王铎, 王铎. The fourth row contains eight medium-sized characters with names: 王羲之, 王羲之, 王羲之, 王献之, 王献之, 文征明, 谢庄. The fifth row contains three large characters with names: 徐渭, 颜真卿, 曾布. The bottom section of the grid features a large, stylized, decorative font for the character '謝'.

Synthesized data

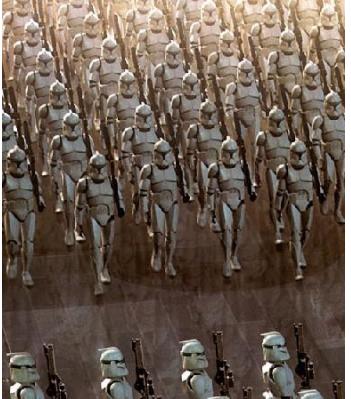
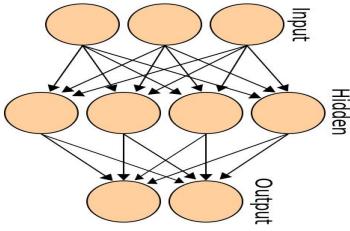




Synthesis



Training



Beyond



Human Recognition



Object Recognition



Face Recognition



Image Search



Text Recognition

/Product/

Face++

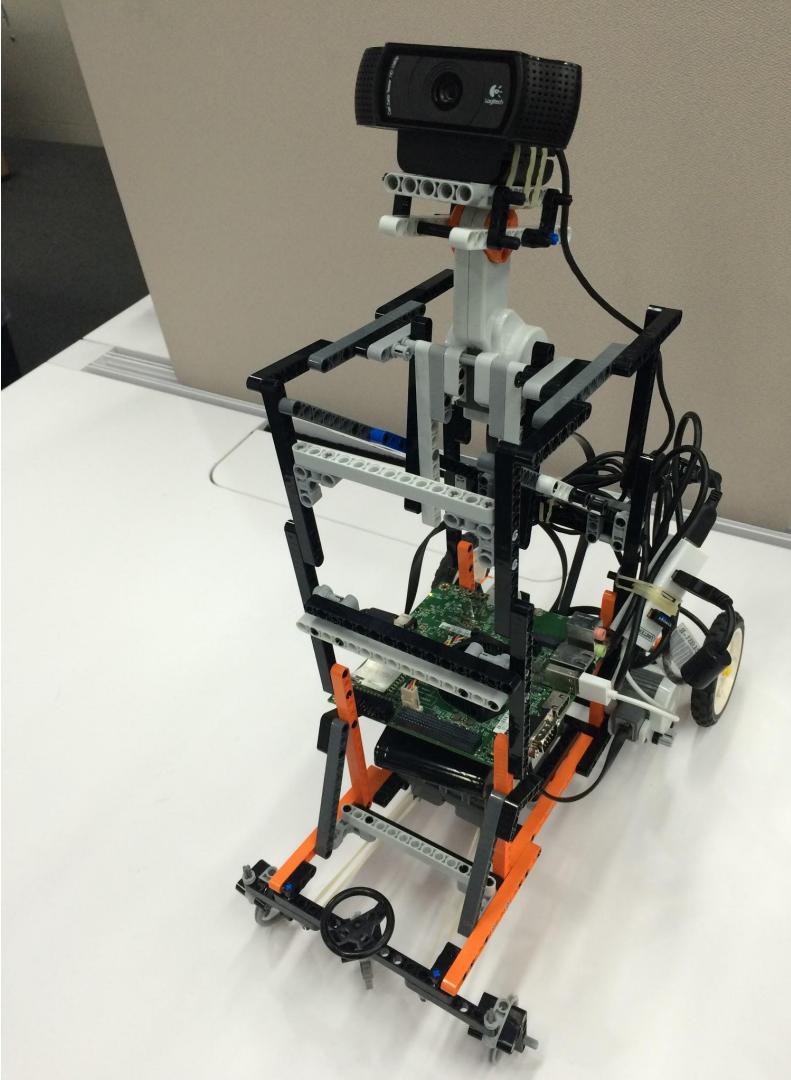
Face++ is now the leading platform for face recognition service. It provides cutting-edge face technologies to a wide range of enterprises and developers.

Image++

Image++ is the upgraded platform for image recognition. It will provide fine-grained human, text, object recognition technologies and general image tagging.



To be continued.



megvii.com

Best is endless.

zsc@megvii.com

linked.in/in/zhoushuchang

Backup