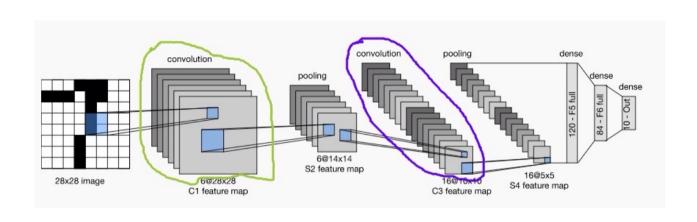
### CNN

- \* Convolution Neural Network
- \* Convolution of ?



#### CWTI

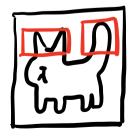
Convolution/sampling of the start fully connected layerst mast 72.

Convolution & Subsampling

- 靴====-

> feature extraction

£x>



feature extraction

>影告!!

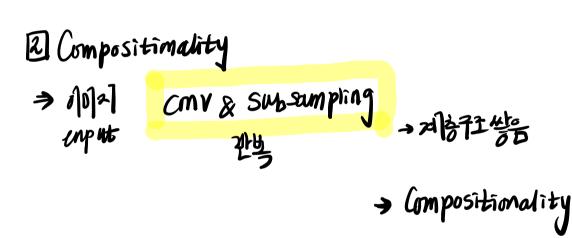
fully connected > 是初十"叶灯光" 217 世社,

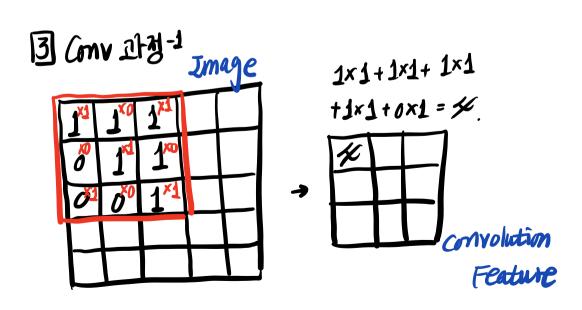
CNN의 建筑之间方。

[] Local invariance (まなからまれのかはなきな)

⇒ Loosely speaking.

convolution filter , sliding





## 31 Conv 27 27 2

CONV是时 → feature

해당판결하지만.

만층 차하다면 response 가 높지나는 것하다.

! 한가 하습니다는 것은 기 팔네 모아이다.

?活觉的对对的是影对网 Conv放准 对的金.,

→ Zero padding / Stride / channel

相急等到 影行中 变计,

# 图Zero-padding-1

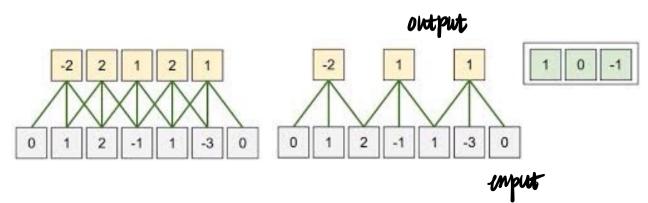


图 zero-padding 元
con v 를 가장자리에서 한 籽

- 고에서 鸡용한라고 하면 것이 부3...
그래서 4 양 분건,

2021

input size:

output size:

filter size:

zero padding size:

filter 가 5至性时型 zero padding >?

捌

Nout = Nin + Mpadding + Nfitter +1.

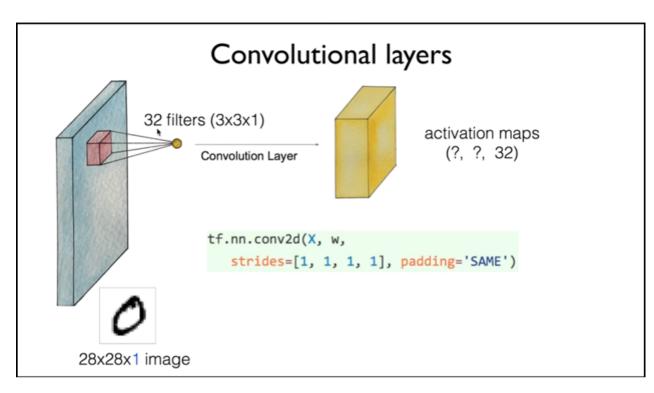
⑤Stride

विणे ३ - स्याम्य

5×5 升级社社工 Stride : 名对工部门,

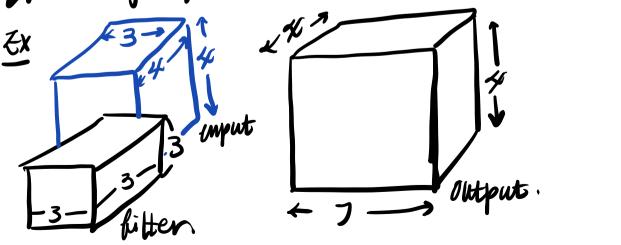
Conv > 5/2=25 才到 23→3 joutput =3 B Pos Stride size of filter Aolien 플랑리다던 overlapping×

### 图超到



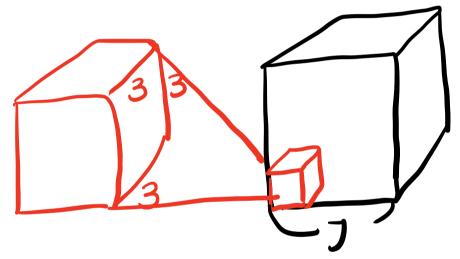
能力[batch, un-height, un-ruidth, in\_chennel]

[filter-height, filter-width, in\_channels, out\_channels]



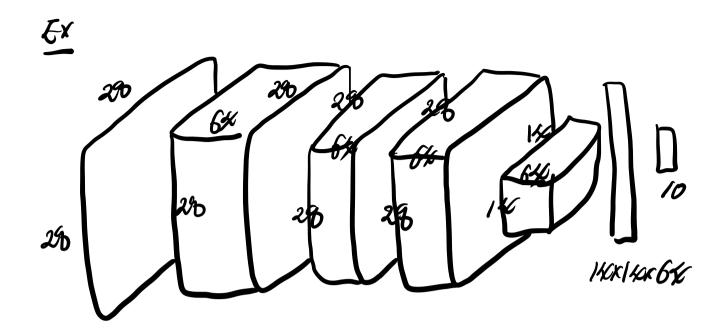
[batch, unheight = , un-width = 4, unchannel=3]
uput

Glitter height=3, filter-width=3, an\_channels=3, out-channels=11
out-channels=11



파라이전 3×3×3×1

?! 파小阳代 险思 多於到 一次和此 学园 学验马子孙, 一对 如此 二年之刊,



级的级型影到。

