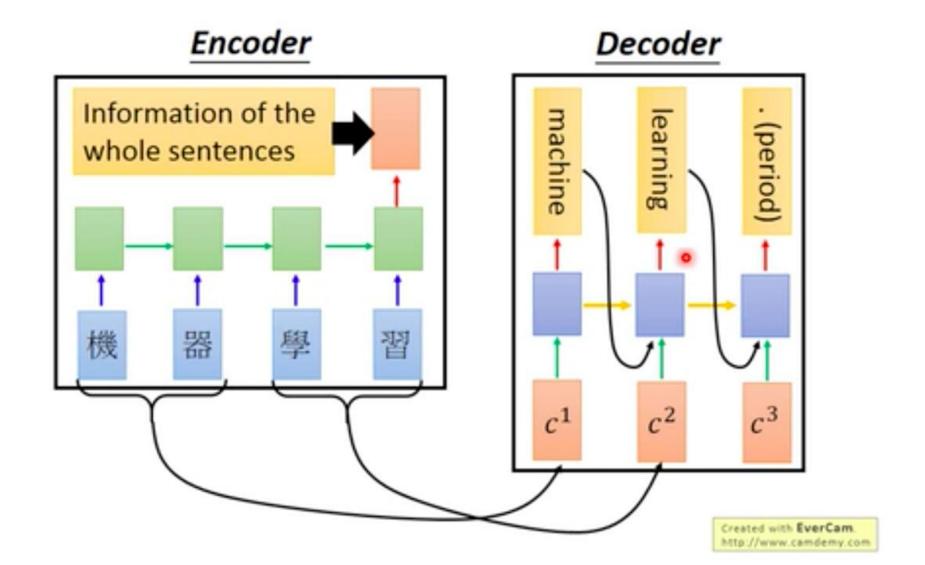
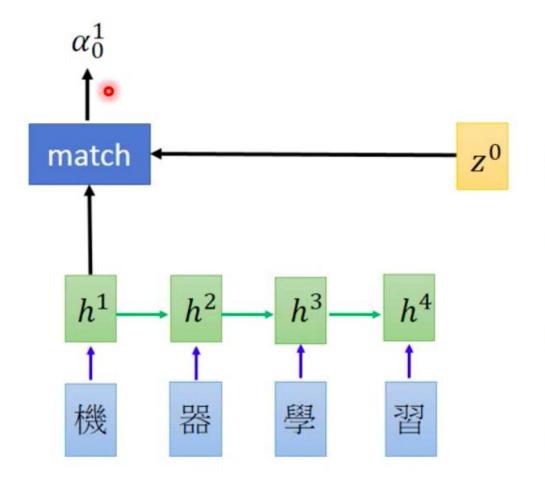
Dynamic Conditional Generation



Machine Translation

Attention-based model



What is match ?

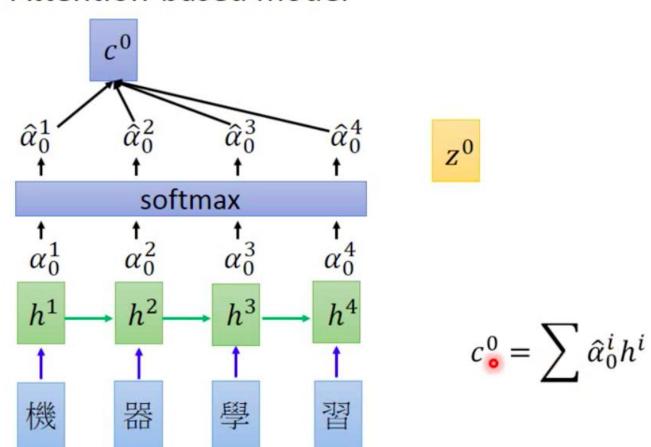
Design by yourself

- Cosine similarity of z and h
- Small NN whose input is z and h, output a scalar
- $> \alpha = h^T W z$

Created with EverCam. http://www.camdemy.com

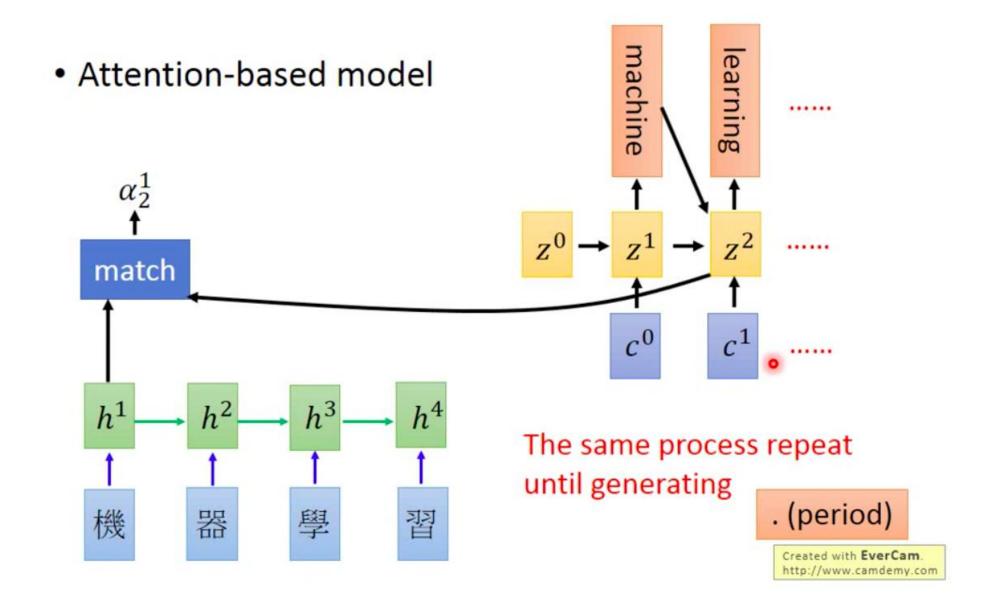
Machine Translation

Attention-based model

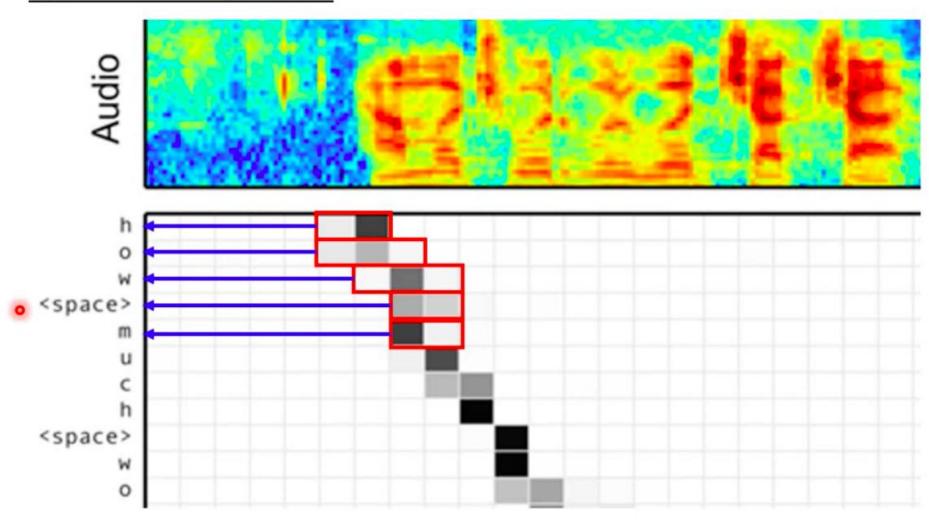


Created with **EverCam**. http://www.camdemy.com

Machine Translation



Speech Recognition



William Chan, Navdeep Jaitly, Quoc V. Le, Oriol Vinyals, "Listen, Attend and Spell", ICASSP, 2016

Image Caption Generation

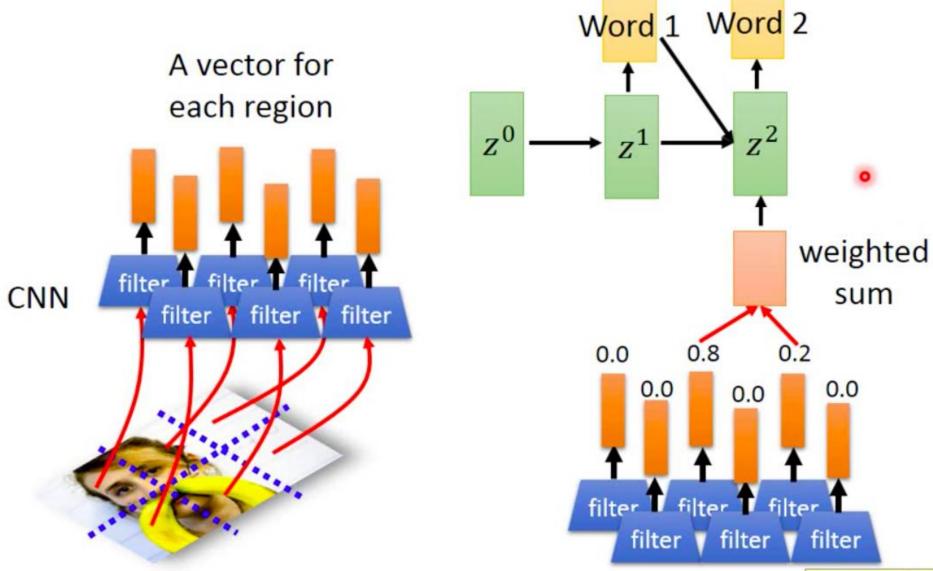


Image Caption Generation



A woman is throwing a frisbee in a park.



A dog is standing on a hardwood floor.



A stop sign is on a road with a mountain in the background.



A little <u>girl</u> sitting on a bed with a teddy bear.



A group of <u>people</u> sitting on a boat in the water.



A giraffe standing in a forest with tree in the background.

Kelvin Xu, Jimmy Ba, Ryan Kiros, Kyunghyun Cho, Aaron Courville, Ruslan Salakhutdinov, Richard Zemel, Yoshua Bengio, "Show, Attend and Tell: Neural Image Caption Generation with Visual Attention", ICML, 2015

Created with **EverCam**. http://www.camdemy.com

Image Caption Generation



A large white bird standing in a forest.



A woman holding a clock in her hand.



A man wearing a hat and a hat on a skateboard.



A person is standing on a beach with a surfboard.



A woman is sitting at a table with a large pizza.

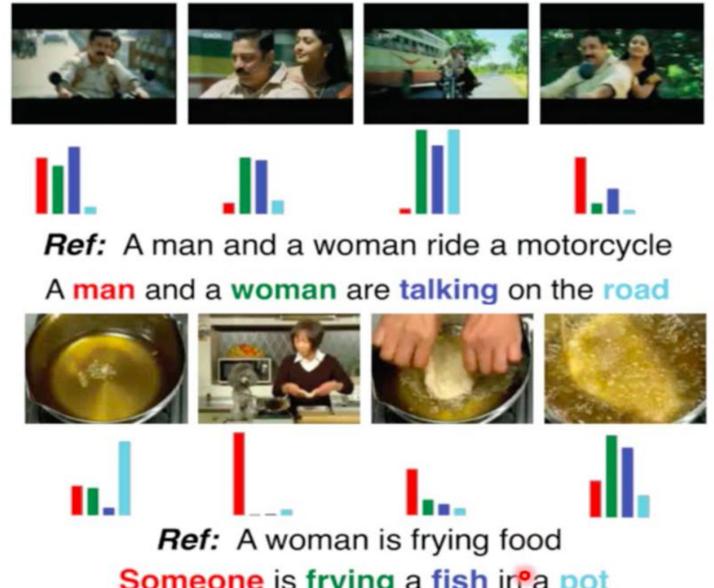


A man is talking on his cell phone while another man watches.

http://www.camdemy.com

Kelvin Xu, Jimmy Ba, Ryan Kiros, Kyunghyun Cho, Aaron Courville, Ruslan
Salakhutdinov, Richard Zemel, Yoshua Bengio, "Show, Attend and Tell: Neural
Image Caption Generation with Visual Attention", ICML, 2015

Created with EverCam.



Someone is frying a fish irea pot

Li Yao, Atousa Torabi, Kyunghyun Cho, Nicolas Ballas, Christopher Pal, Hugo Larochelle, Aaron Courville, "Describing Videos by Exploiting Temporal Structus Created with Ever Cam