~ ADAM~

Acoustic Data for Animal Monitoring or Sense of Air Waves for Nature and Us

Ken Ishida the University of Tokyo

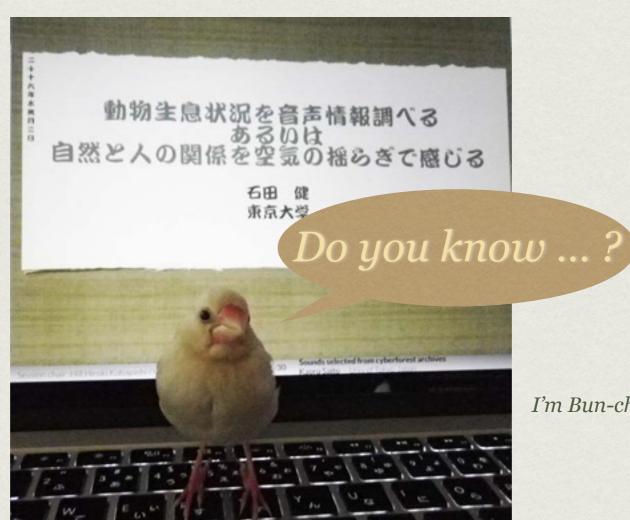
3 June, 2016

動物生息状況を音声情報にて調べる あるいは 自然と人の関係を空気の揺らぎで感ずる

石田 健 京京大学



鳥の囀

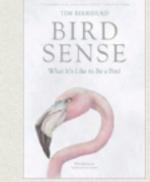


I'm Bun-chan

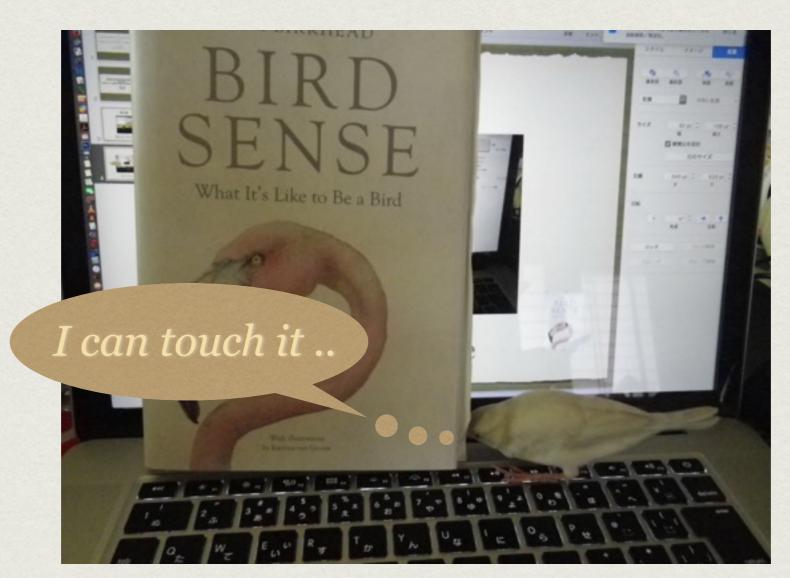
Bird Song



She is my assistant and always occupies the keyboard.



Bird Sense



Good Job!

as air waves

Temperate Zone Culture

Four Seasons 春夏秋冬

四季

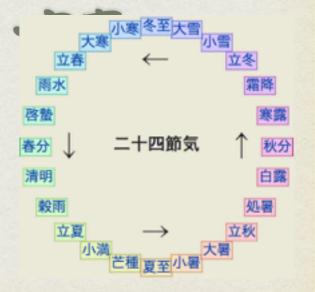
Japanese Culture

sense of nature

Twenty-four Winds

春分··立夏··夏至···秋分···冬至··

廿四節気



https://ja.wikipedia.org/wiki/二十四節気

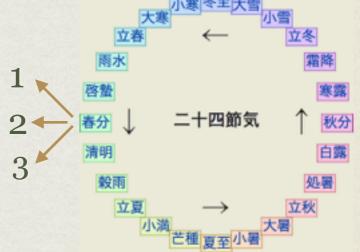
sense of nature

Seventy-two Winds

3 sections (5 days) each in "24 winds"



moon calendar, menology



https://ja.wikipedia.org/wiki/二十四節気

feeling the world with senses of nature

for examples...

於候 2nd in "Risshun 立春" 1st in "Shunbun 春分" 7st in "Seimei 猜明" 3rd in "Hakuro 白露" 3rd in "Shoukan 心寒"

Bush-warbler sings Sparrow nests Swallow comes Swallow departs Pheasant calls birds, flowers, insects, leaf colors ... etc.

sound of nature 自然の音 "ne"

From
Bush-warbler songs
First songs, 初音
Cricket sound, 鈴虫の音(ね)
Wind sound, 風の音



http://www.crypton.co.jp/mp/pages/prod/vocaloid/mikuv3.jsj

In Japanese culture, with a sound ~ "ne" we sense the season, time, atmosphere, environment etc.

for examples...

Japanese Bush Warbler

- every where with bushes, from Okinawa Hokkaido,
 coast mountain tops, city park forest ... etc.
- every one knows the name and the song (sound)
- · many pictures, descriptions, dolls, flutes,
- · Meteorological Agency officially announces & records the 1st song.
- · We feel "spring has come" when we here its song.

· Few people have seen them, I think.

Oriental Cuckoo

- · summer visitor in Japan
- parasite of Japanese bush warblers

- · appears in literatures, drama, pictures etc.
- · We feel "summer is coming"

• There should be the host, breeding bush warblers, bird watchers think.

Dawn Sound @ Amami



3 March, 2015 6:26 ~ a.m.

Dawn Sound @ Chichibu



8 May, 2015

4:40 ~ a.m.

Dawn Sound @ Omaru

7 April, 2016

6:30 ~ a.m.



six senses

our innate senses = human memory or DNA

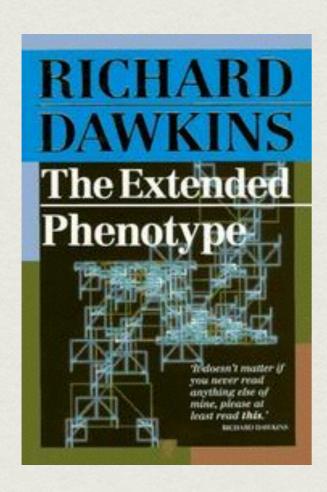
extended phenotypes via internet

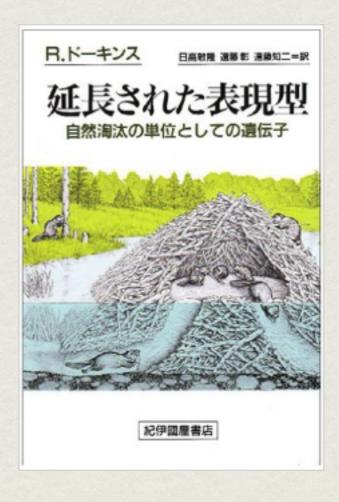
Sense of Globe

& information

Now an age of Natural Science

We have much Extended Phenotype





Examples of Extended Phenotypes

- · binocular, telescopes, microscopes,
- · camera & video recorder
- · ultraviolet, infrared sensors
- microphone & sound recorder
- · sound mixer, converters (ex. bat detector)
- · personal computer & sound analyzing software
- inter-net
- artificial intelligence (AI) deep machine learning . . . etc.

ADAM



multi-sensing





Amami Thrush Song monitor

ライブマイクを通して、リアルタイムに森の時間を共有 森の今と音でつながる Sound Lab. × Cyberforest twitter #tetto #otanomo #otohama

i Sense of Globe?

Sense of Globe

How can we feel?

sense

Sense of Nation

Scottish sense

Japanese sense

Thanks to René-san,

~ F//\/~



ウグイス Japanese Bush-warbler