石川将也

Masaya Ishikawa

十

田谷修一郎

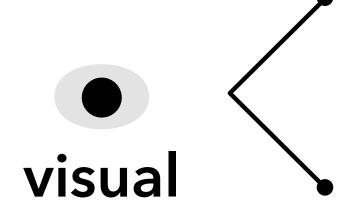
Shuichiro Taya

design and

cognition

02 apparent motion

size color shape



design and

cognition

size color shape motion

design and visual cognition

from this week:

We will focus on cognition behind motion and video by creating stop motion animation.

motion

design and

cognition

motion design and cognition

image & motion are built inside your mind.

motion design and cognition

image & motion are built inside your mind.

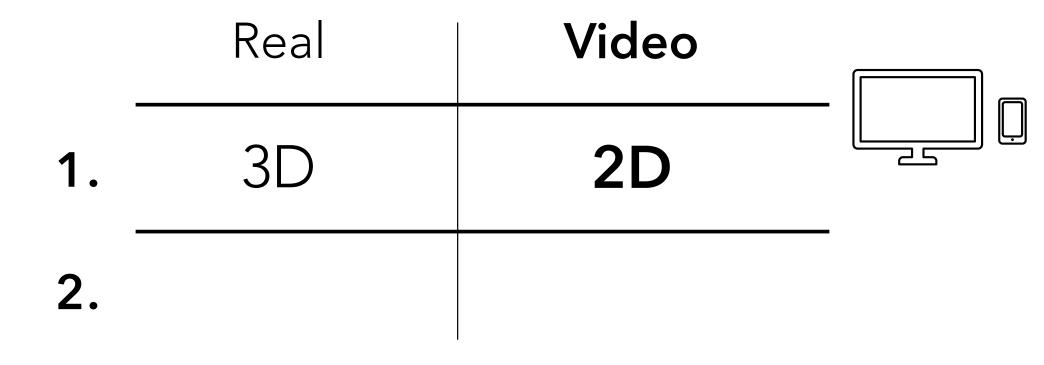
motion design and cognition

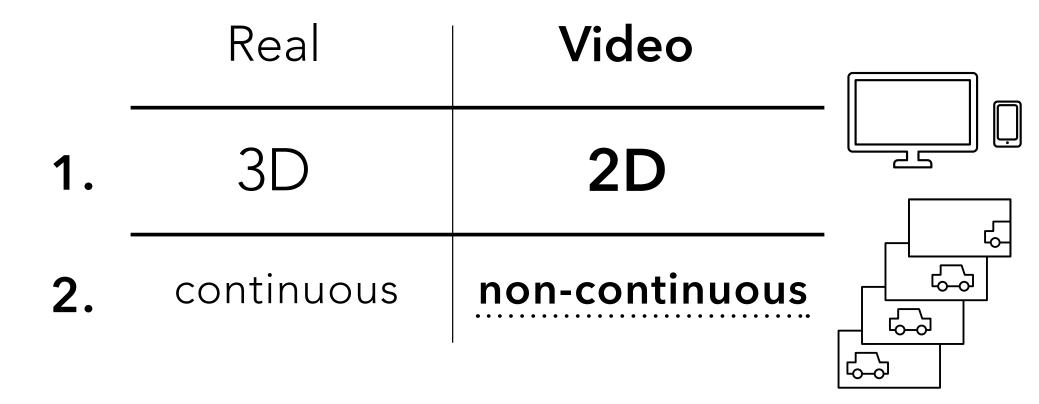
cognition of video image is an optical illusion

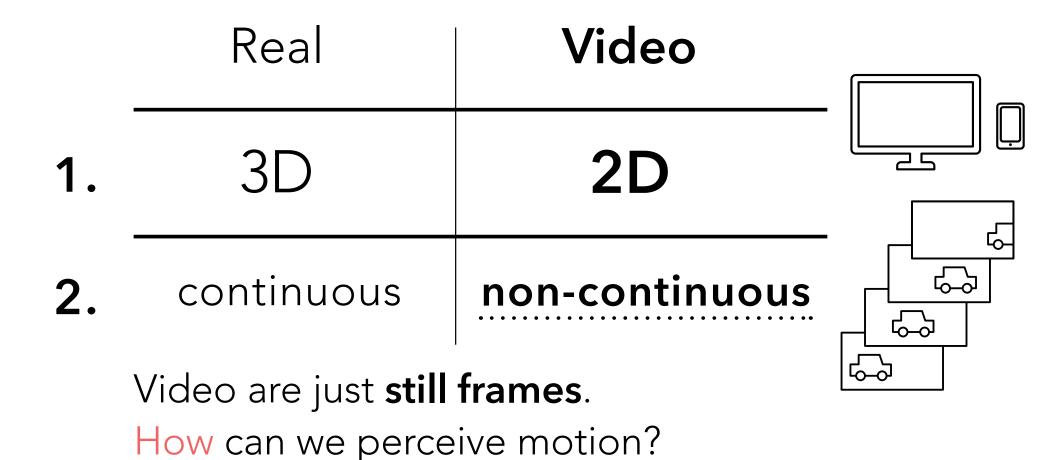
motion design and cognition

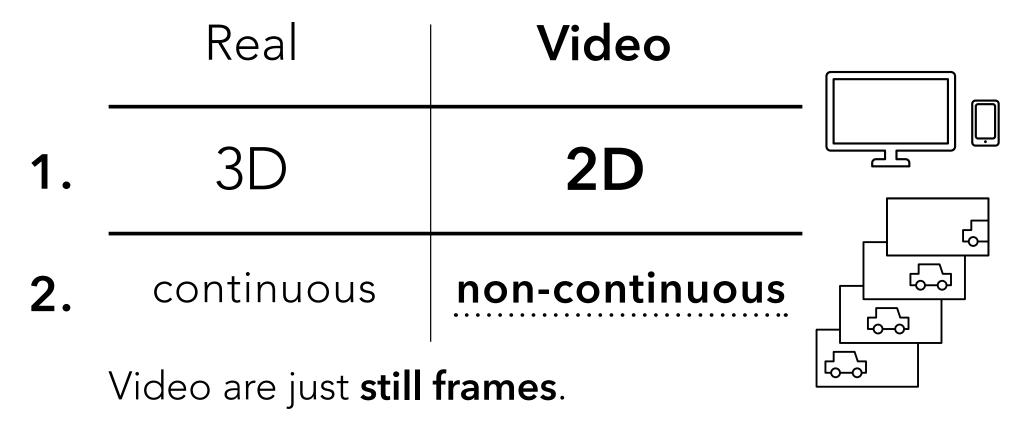
cognition of video image is an optical illusion

	Real	Video
1.		
2.		



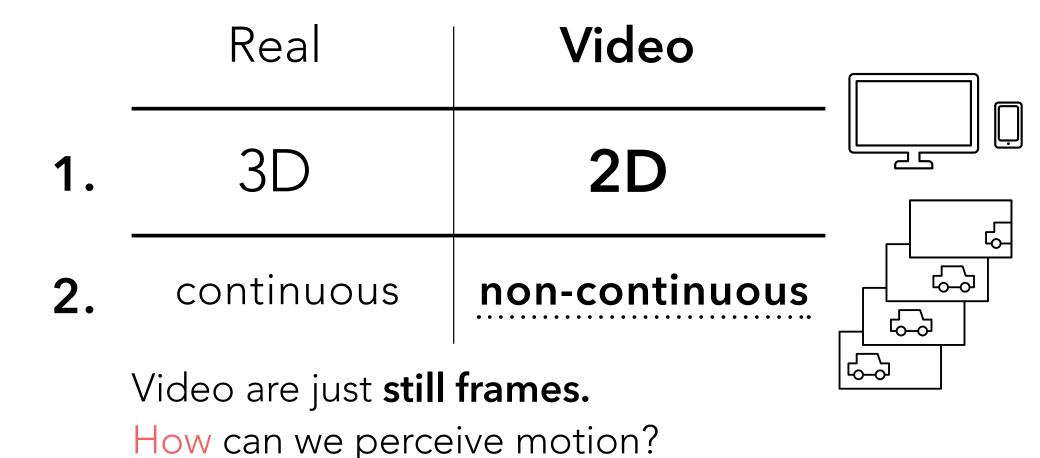






How can we perceive motion?

「こんなことできません」Humans can't do this! from Pitagora Switch, 2014



We have the ability to create motion from still frames.

exercise 1

Animate the nails.



creative method: stop motion animation

tools: screw nail

stop motion studio app

blu tack tripod





exercise 1

Animate the nails.



creative method: stop motion animation

tools: screw nail

stop motion studio app



blu tack tripod





Fix tripod using tack glue.

Use manual exposure.

Use onion skin feature.

exercise 1

Animate the nails. anima



creative method: stop motion animation

tools: screw nail

stop motion studio app

blu tack



tripod

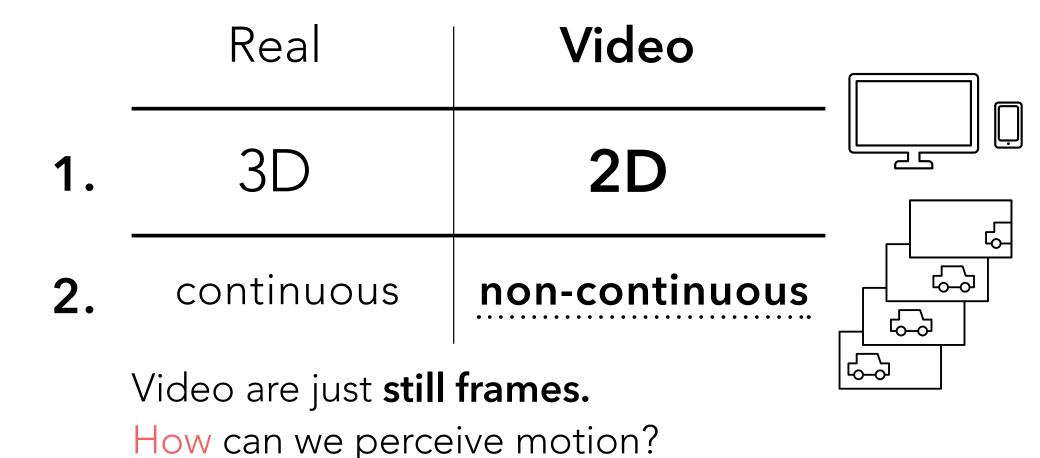




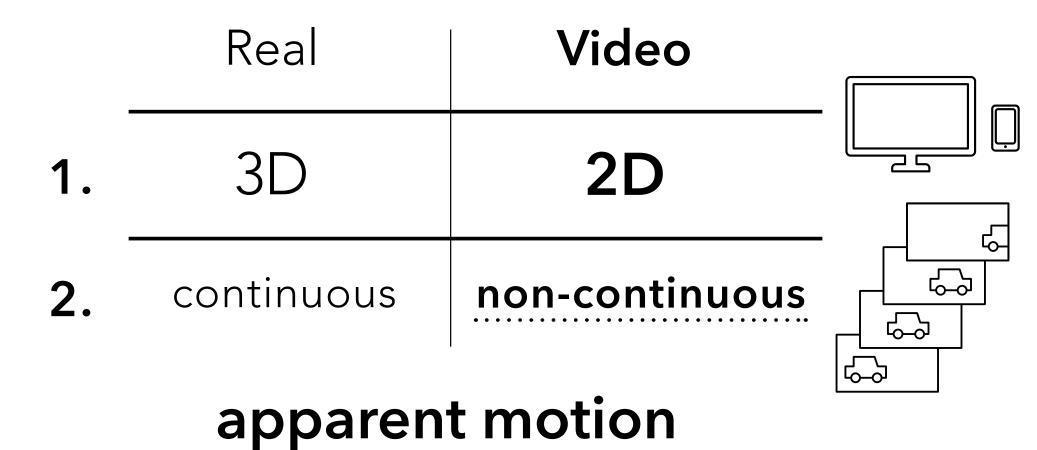
Fix tripod using tack glue.

Use manual exposure.

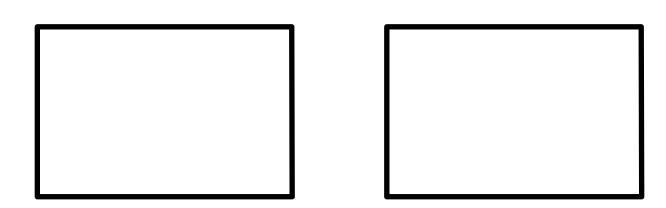
Use onion skin feature.

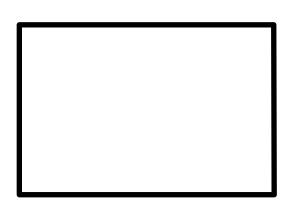


We humans have the ability to create motion from still frames.



We humans have the ability to create motion from still frames.

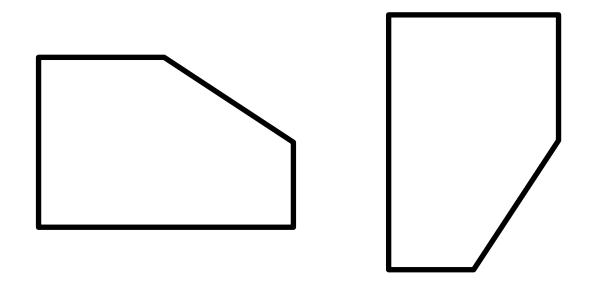


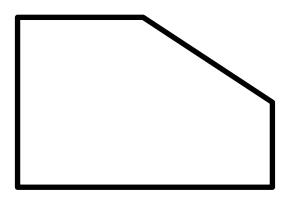


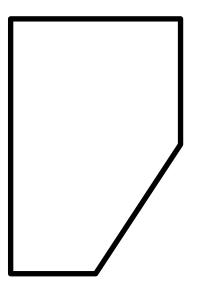


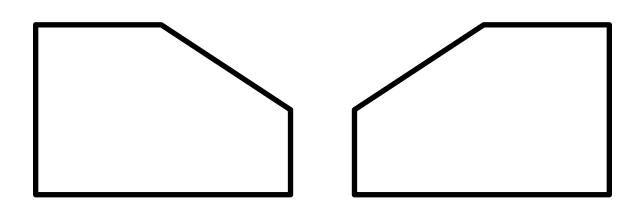


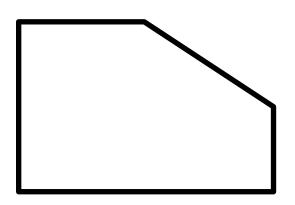


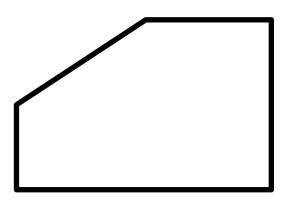








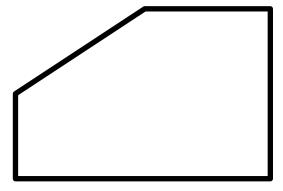




When two pieces of visual information on different location are presented with not so fast not so slow intervals, we percieve movement.



Our brain immediately gives us the conclusion.

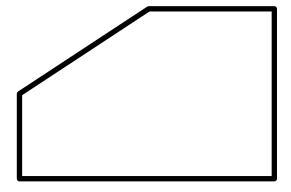


When two pieces of visual information on different location are presented with not so fast not so slow intervals, we percieve movement.



Our brain immediately gives us the conclusion. Even it is impossible in the real world.

ex.「みなさんの こんななことできません」



When two pieces of visual information on different location are presented with not so fast not so slow intervals, we percieve movement.

How can we percieve motion from non-continuous information?

When two pieces of visual information on different location are presented with not so fast not so slow intervals, we percieve movement.

How can we percieve motion from non-continuous information?

When a laser point is moved very fast ...

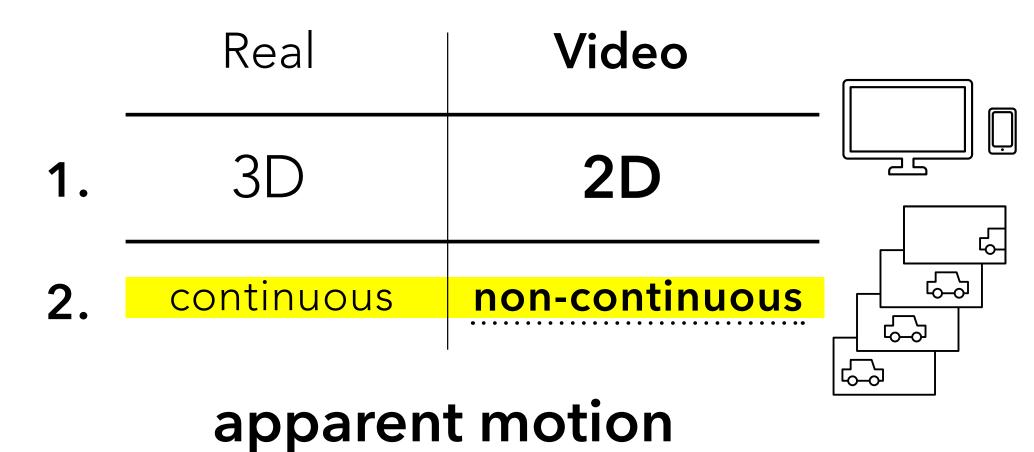


apparent motion

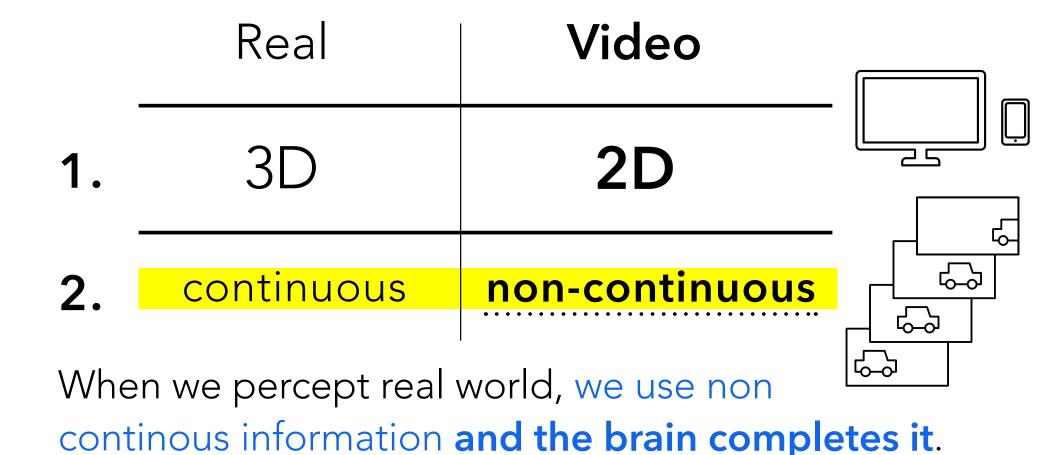
When two pieces of visual information on different location are presented with not so fast not so slow intervals, we percieve movement.

How can we percieve motion from non-continuous information?

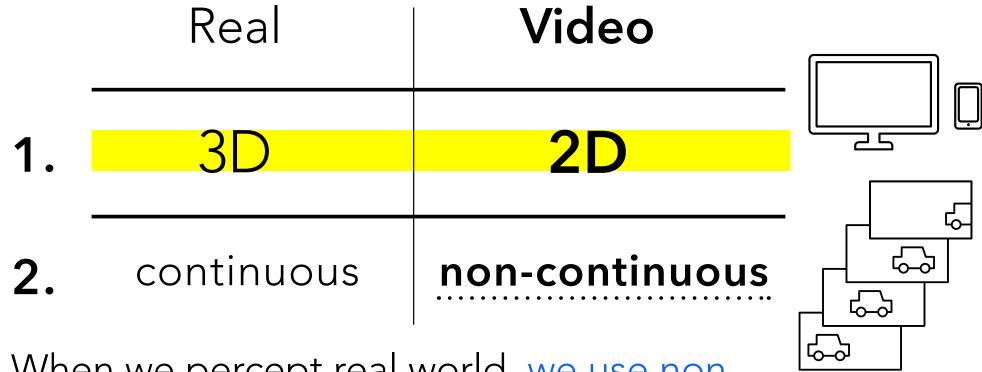
When a laser point is moved very fast ... we see a line (but it is realy a point).



We humans have the ability to create motion from still frames.



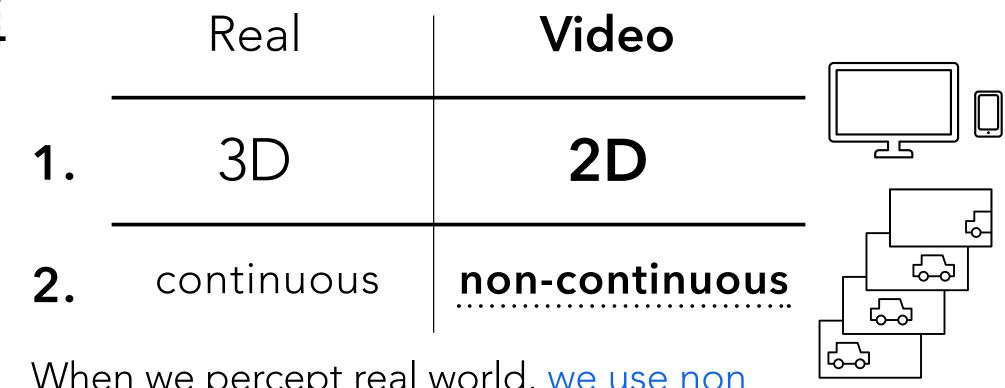
We humans have the ability to create motion from still frames.



When we percept real world, we use non continous information and the brain completes it.

We humans also have the ability to complete 3D from 2D information. 「2355ID 3D 看板」

but



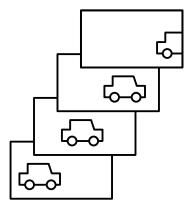
When we percept real world, we use non continous information and the brain completes it.

We humans also have the ability to complete 3D from 2D information. our retina is 2D

Real Video

1. 3D 2D

2. continuous non-continuous

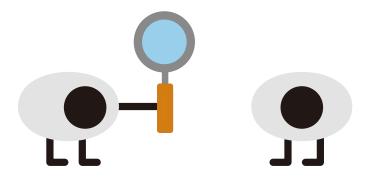


The same mechanism for real world perception is used for visual, motion, image cognition.

Our mechanism for perception sometimes reveals in **unusual circumstances** (2D, non-continuous).

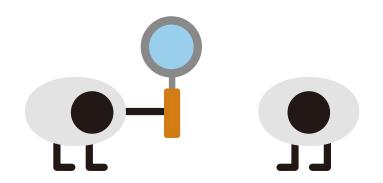
Our mechanism for perception sometimes reveals in unusual circumstances (2D, non-continuous).

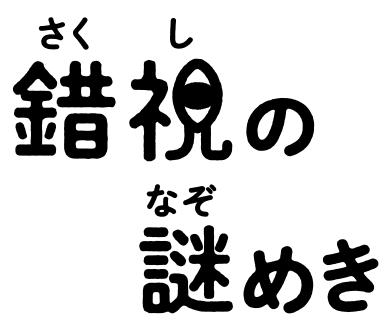
II Optical Illusion



Our mechanism for perception sometimes reveals in unusual circumstances (2D, non-continuous).

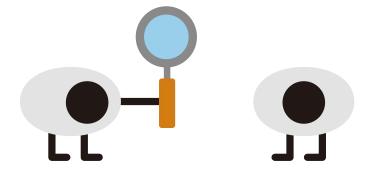
II
Optical Illusion





Our mechanism for perception sometimes reveals in unusual circumstances (2D, non-continuous).

II
Optical Illusion



Perception is reality. Reality is not reality.

Paul Rand

assignment 1

make your own screw nail animation



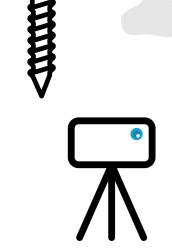
Make use of different sizes.

Give them a **animacy**.

Focus on motion. not stories.

ex : push, fold, union, etc ...

「新しい生物」アルミホイルプス



Deadline: 4/30 mon 12:00 PM(noon)

- provide movie file via discord.
- todays exercise too.

石川将也

Masaya Ishikawa

十

田谷修一郎

Shuichiro Taya

design and

cognition

02 apparent motion

