

```
import sh.geom.*;
import sh.net.*;
import sh.media.*
import sh.utils.Timer

class NetConnection;
class NetStream;
class MetaData;
class Object;
class Source:String;
class FileName:String;
class MovieClip;

// decimal address
// results in bytes

if (opcode[5] == 0x00) {
    // load & add
    // load & add
    // load & add
    // load & add
}

end

0x0000100, 0x000100, 0x000200, 0x000300, 0x000400, 0x000500,
0x000600, 0x000700, 0x000800, 0x000900, 0x000A00,
0x000B00, 0x000C00, 0x000D00, 0x000E00, 0x000F00,
0x001000 // 16x1000

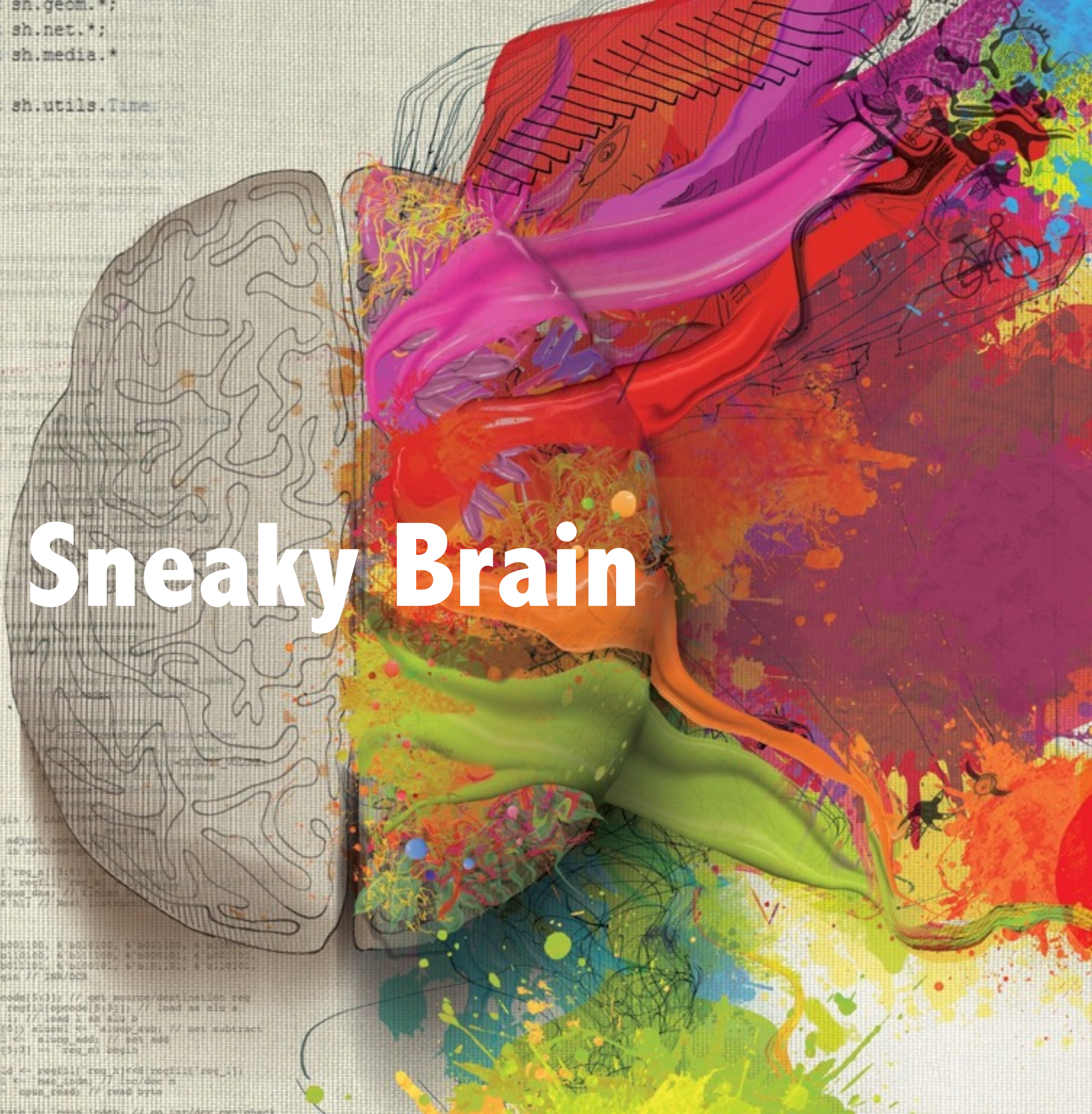
read <- opcode[5] // get source/destination reg
aluopra <- regip[opcode[5]] // load & add
aluoprb <- lr // load & add
if (opcode[5] < 0x00) { // set subtract
    opca aluopra <- aluoprb // set subtract
    lr <- opca // set subtract
}

end

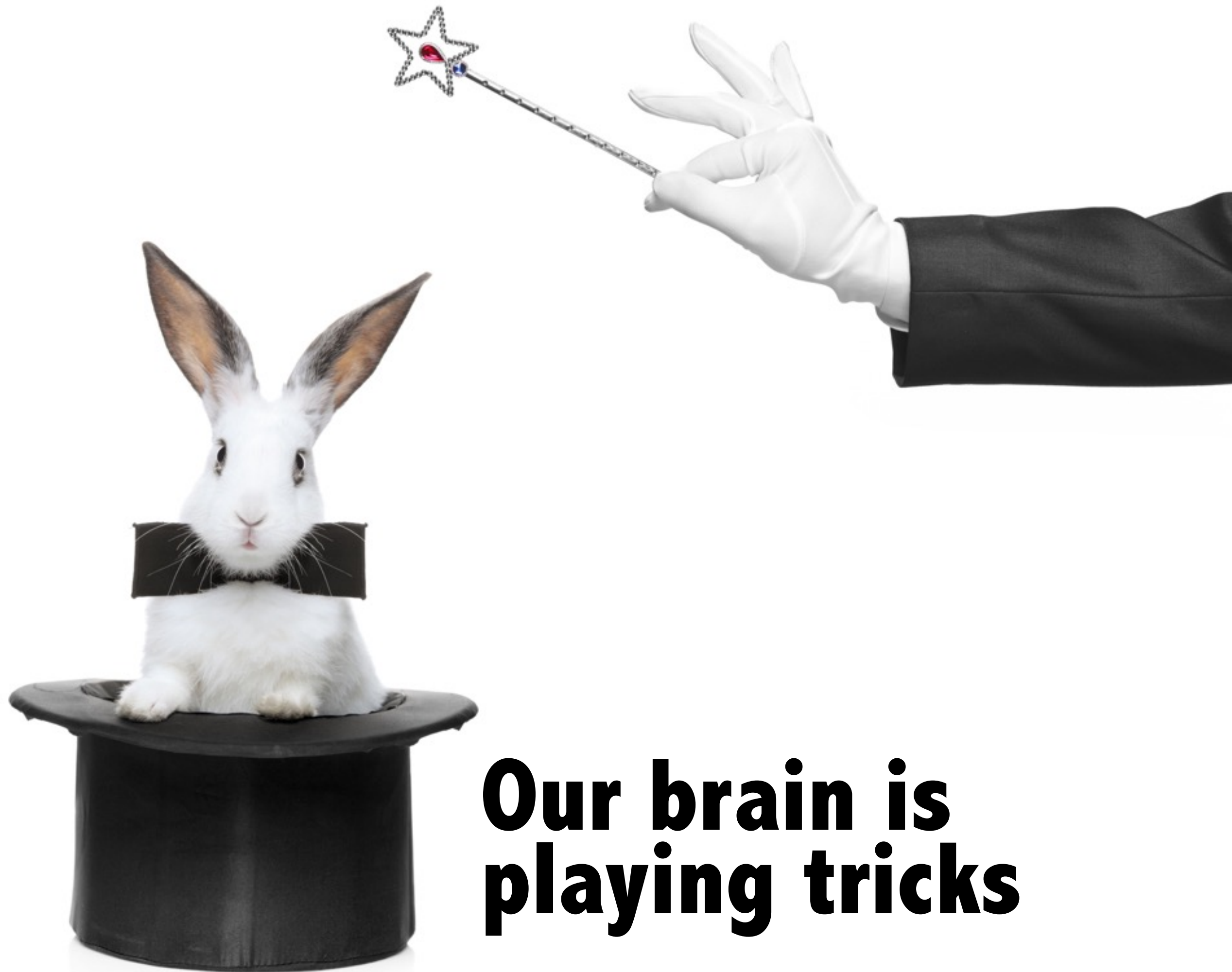
end

// no op/any op/any op
```

# Sneaky Brain







**Our brain is  
playing tricks**

# Cognitive Bias

We create our own "subjective social reality"

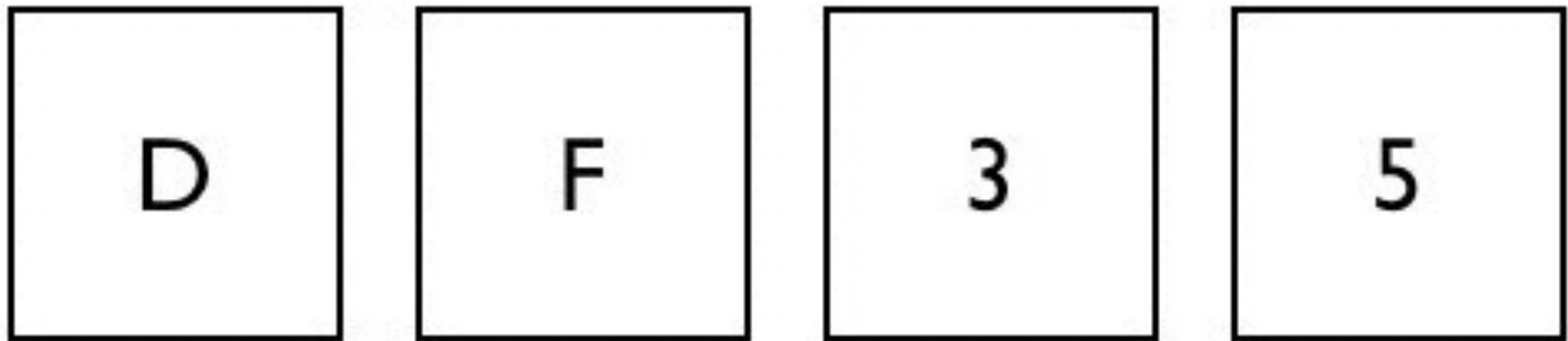
Confirmation Bias

Halo Effect

Hindsight Bias



# Wason selection task



If a card has a **D** on one side,  
it has a **3** on the other side.

# Wason selection task



if a person is drinking beer,  
he/she must be over 21 years old



# The Blame Game

Actor-observer bias

"We have only one person to blame,  
and that's each other!"

Barry Beck (hockey player)



# Taking Shortcuts

Mental Shortcuts = heuristics





# Affordance

We see the world according to what we want and can do





# Affordance

Desirable and threatening things are closer



# **Change Blindness**

major changes right in front of us remain undetected







# False Memory

We can easily be fooled into false memories



**We can't „unhear“ things**

the brain needs to know what to expect

**We can't „unhear“ things**

Diana Deutsch and her musical illusions



**We can't „unsee“ things**



**FIFA WORLD CUP**

**BRASIL**





**A WORLD CUP**  
**BRASIL**



# Your Brain Can't Handle the Moon





# Your Brain Can't Handle the Moon

"perception does not belong to optics  
but to the study of the wonderful."

*Kepler*





**BRAINS ARE AWESOME**

**I wish everybody had one.**