

# 基于人工智能的 新界面交互设计

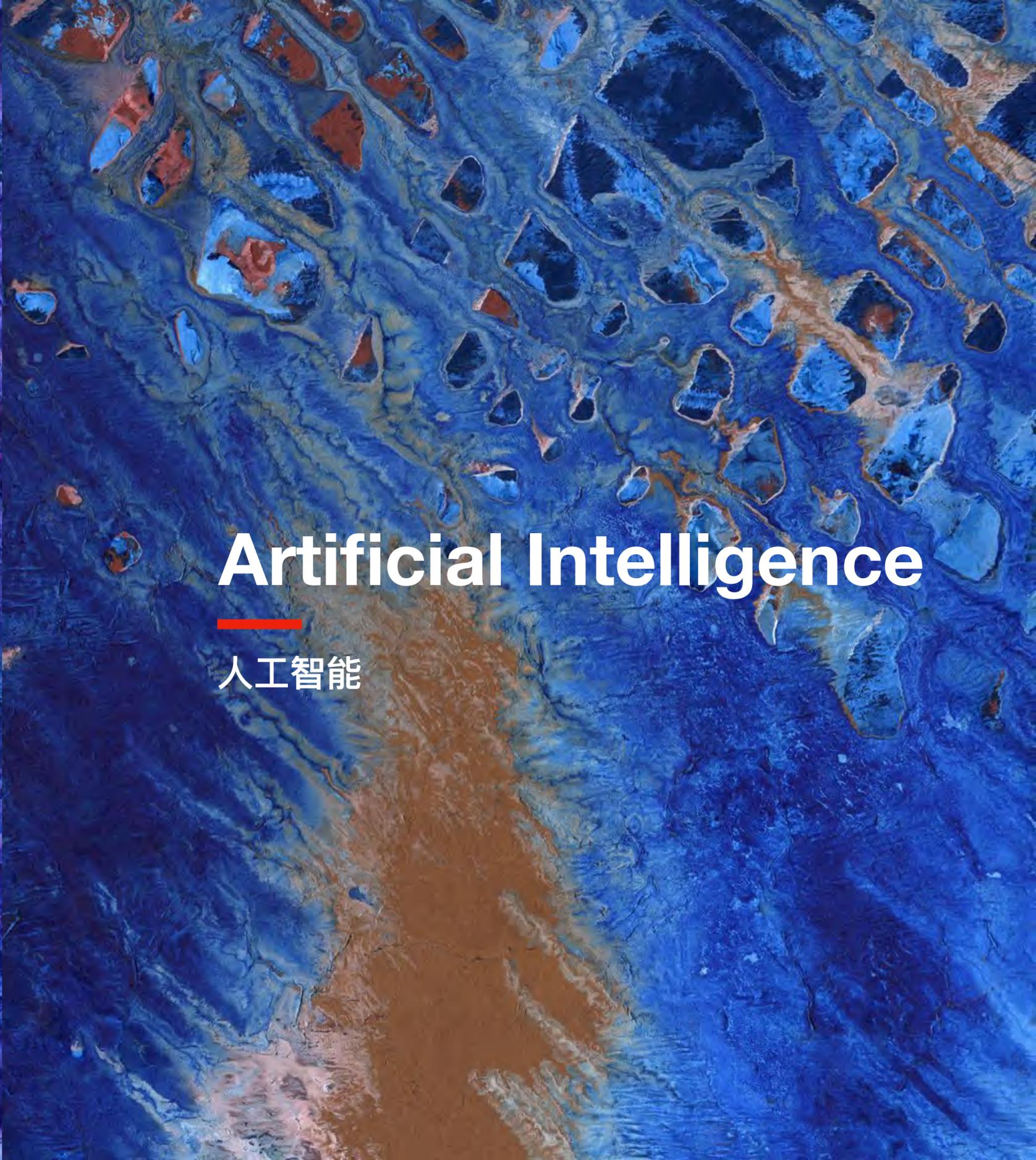
Rokid



**Design**

---

设计



**Artificial Intelligence**

---

人工智能

1930s





1970s



**1980s**



1990s

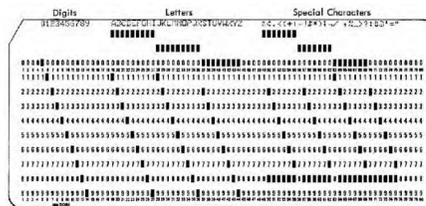


2000s





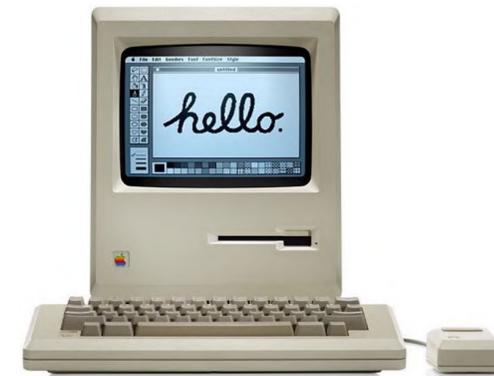
Tape



Punched card



Command-line  
Keyboard



GUI  
Mouse



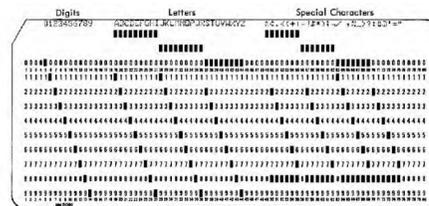
PDA  
Stylus



Smartphone  
Touch



Scientist



Researcher



Programmer



Hobbyist



Adult



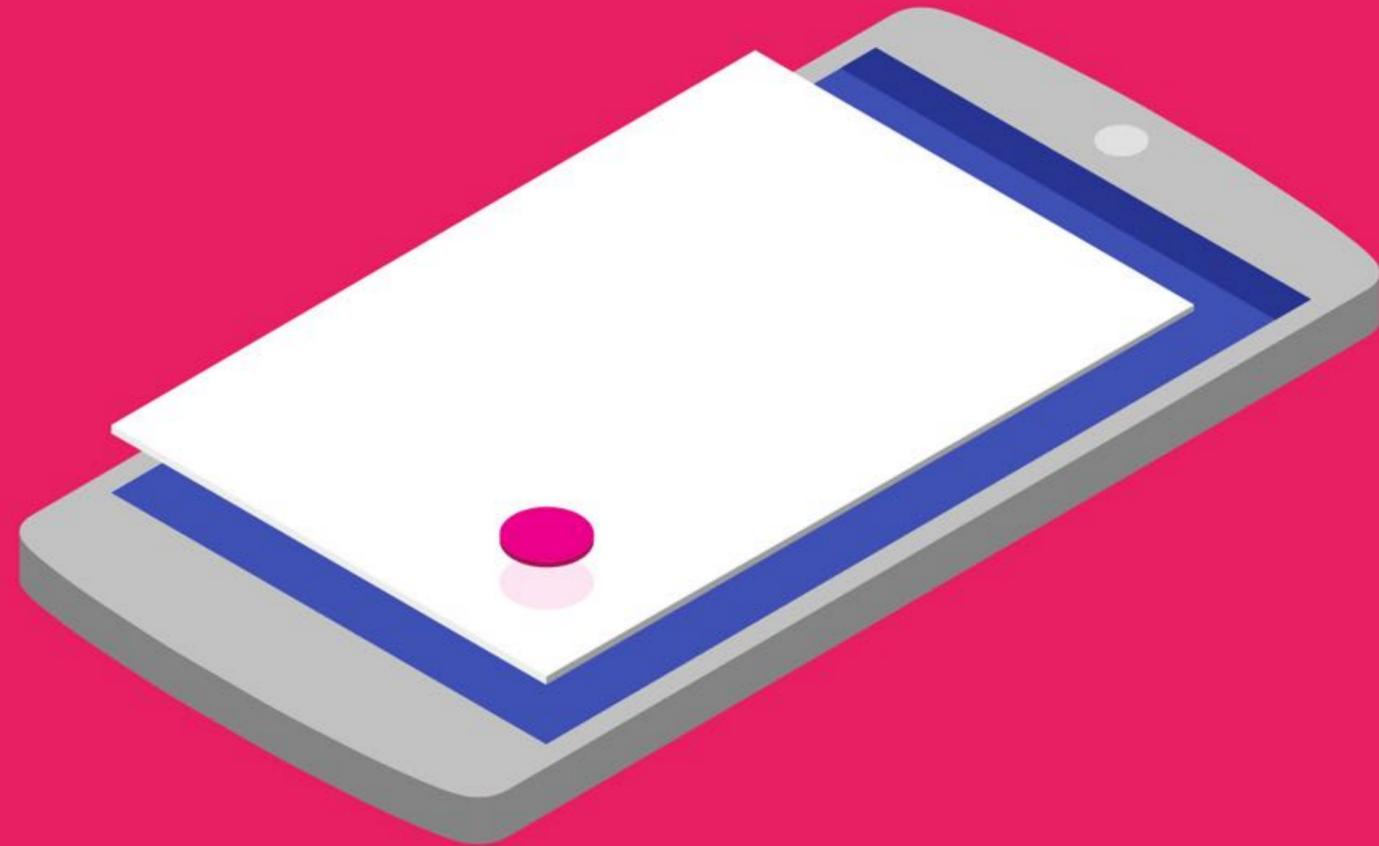
Baby  
(Everyone)



# Natural & Intuitive

—  
自然 & 本能

# Material Design



GD

Material · Motion ↗

Making Material Design





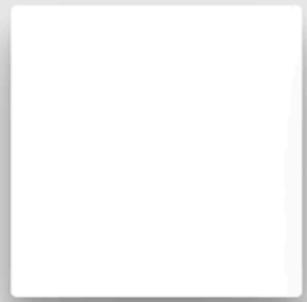
z-depth = 1



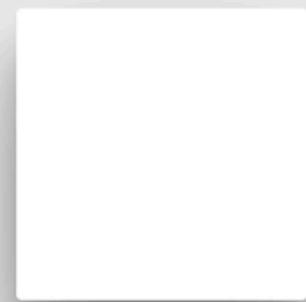
z-depth = 2



z-depth = 3



z-depth = 4



z-depth = 5



z-depth = 1



z-depth = 2



z-depth = 3

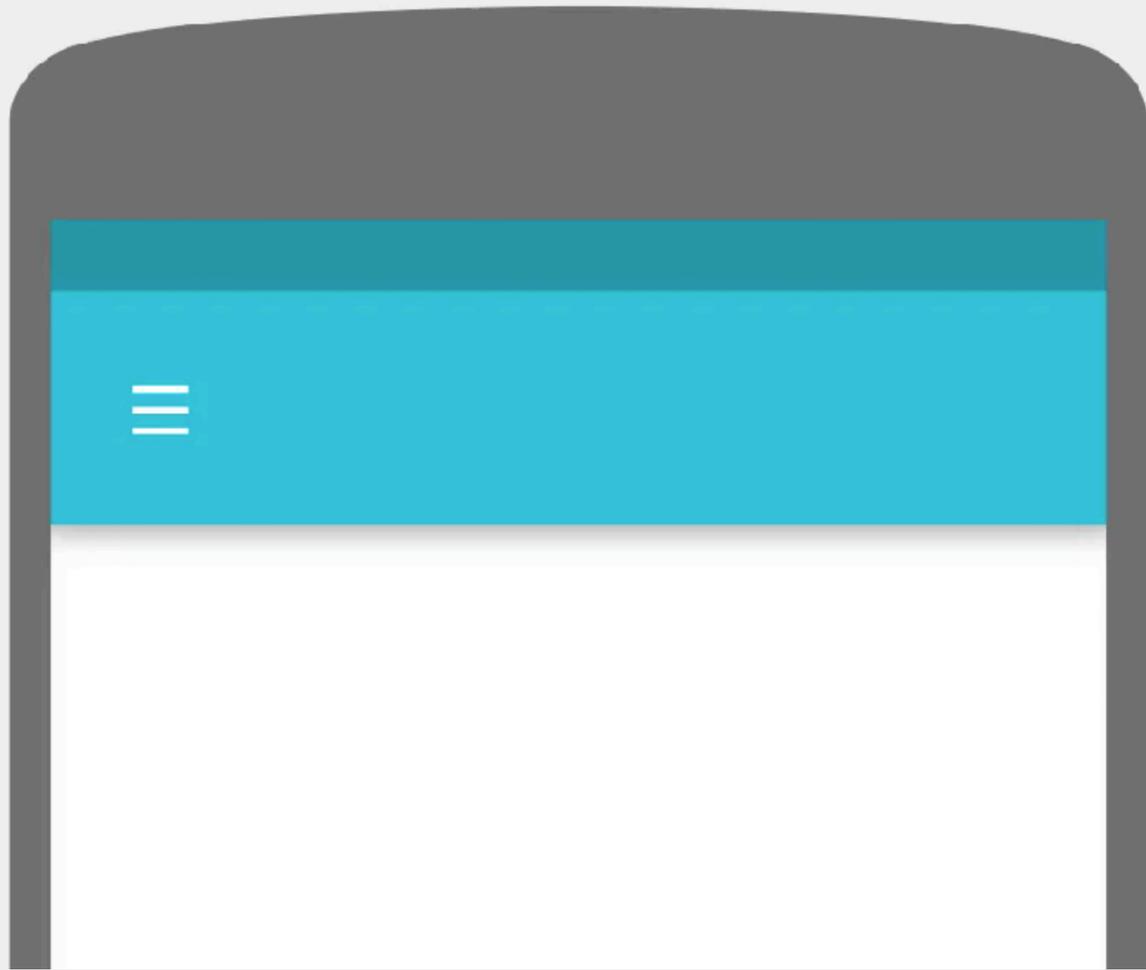


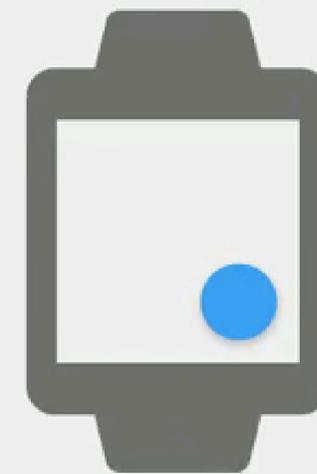
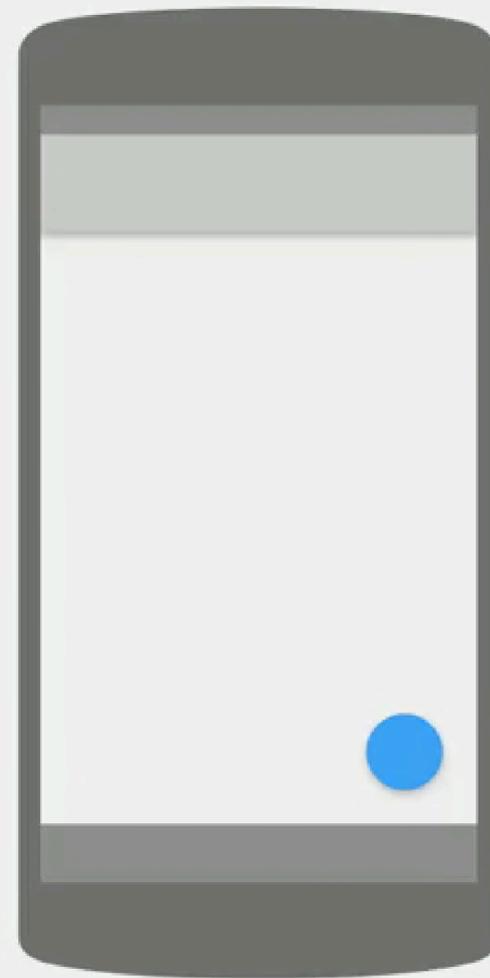
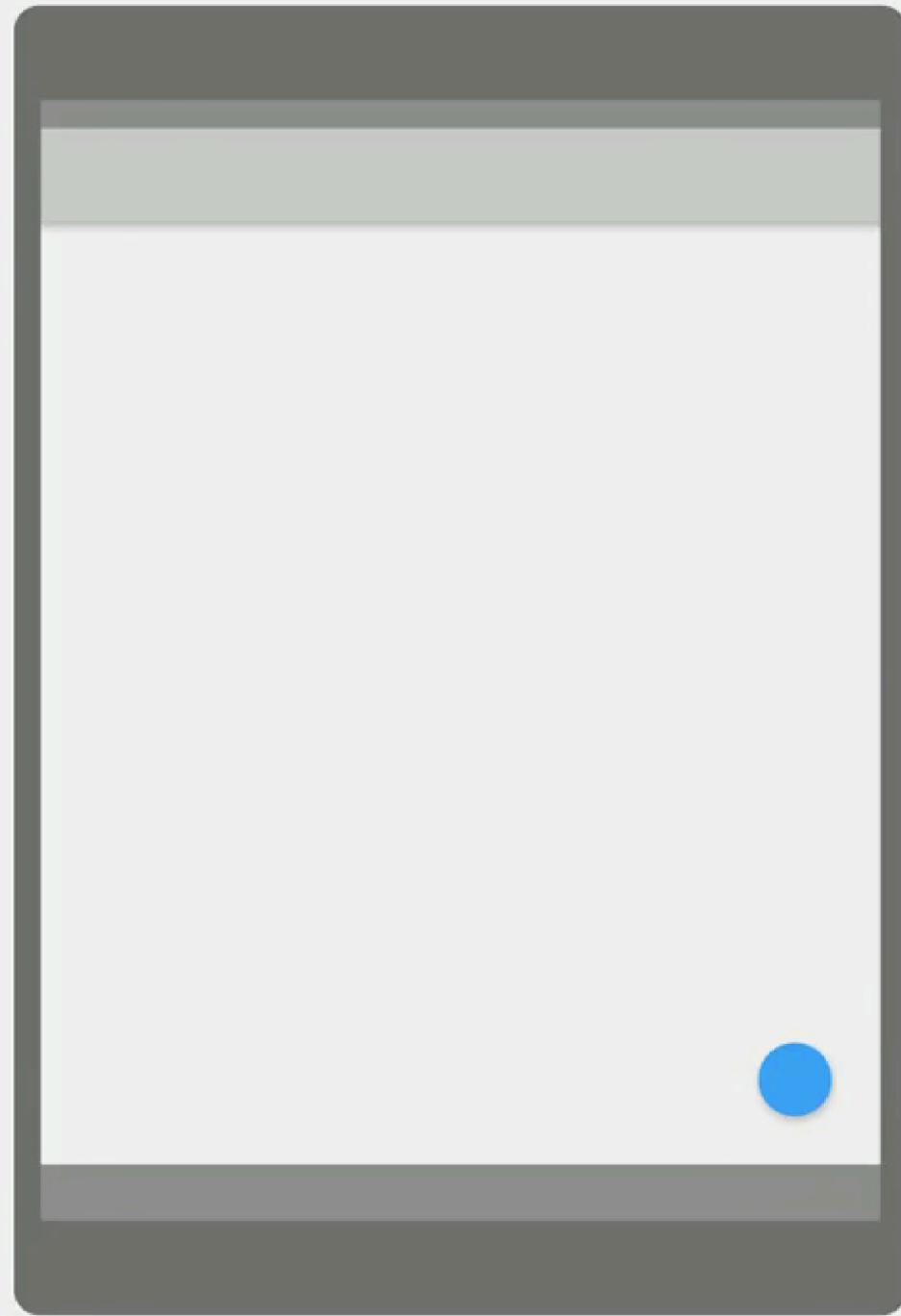
z-depth = 4

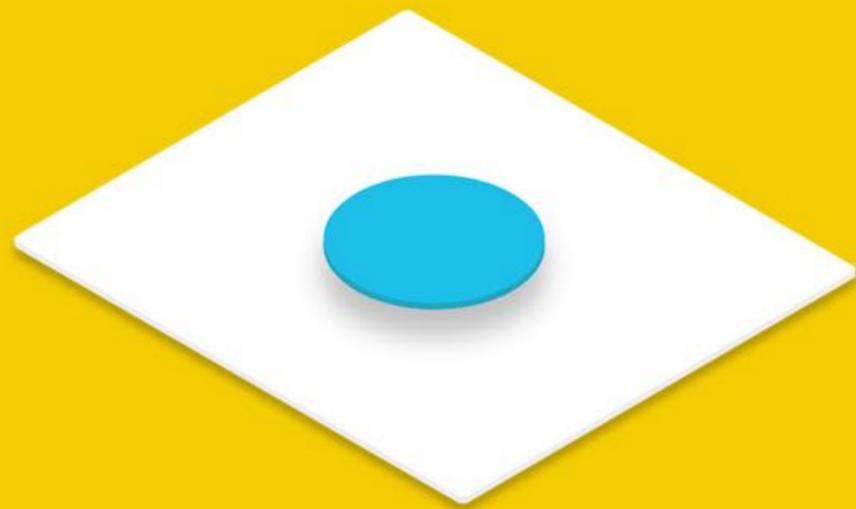


z-depth = 5









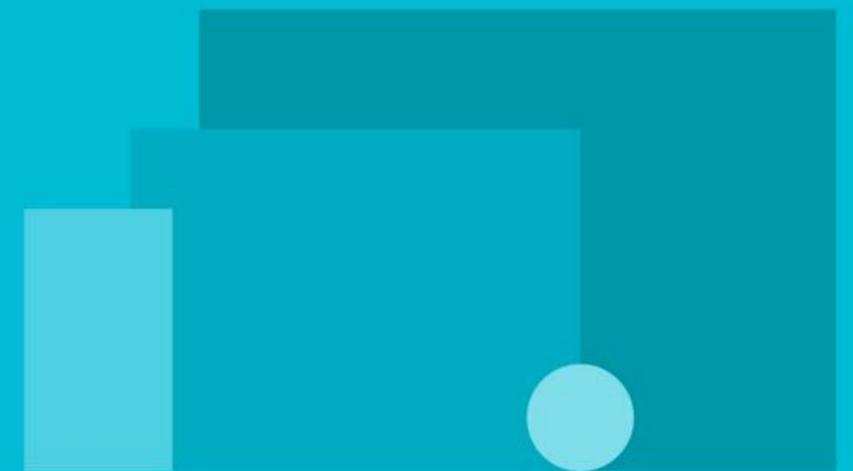
## Tangible Surfaces

触控界面



## Meaningful Motion

物理学运动



## Adaptive Design

自适应设计



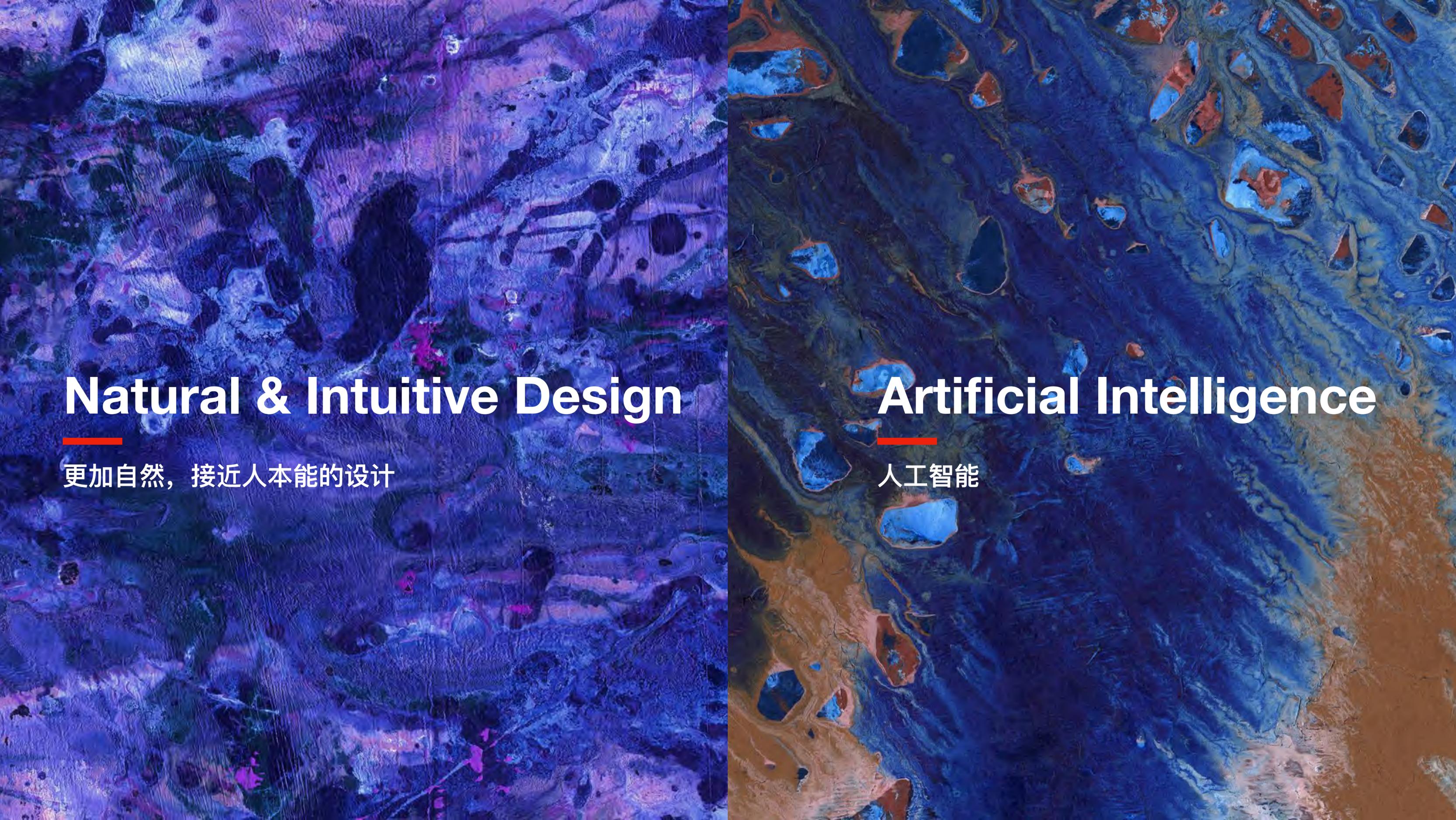
PEBBLE



PEBBLE 月石







# Natural & Intuitive Design

---

更加自然，接近人本能的设计

# Artificial Intelligence

---

人工智能

An aerial photograph of a two-lane asphalt road winding through a dense, lush green forest. The road has a white dashed center line and solid white edge lines. The trees are vibrant green, with some taller, darker green trees on the left side. The overall scene is peaceful and natural.

**Nature**

自然

**Intelligence**

智能

**Human**

人



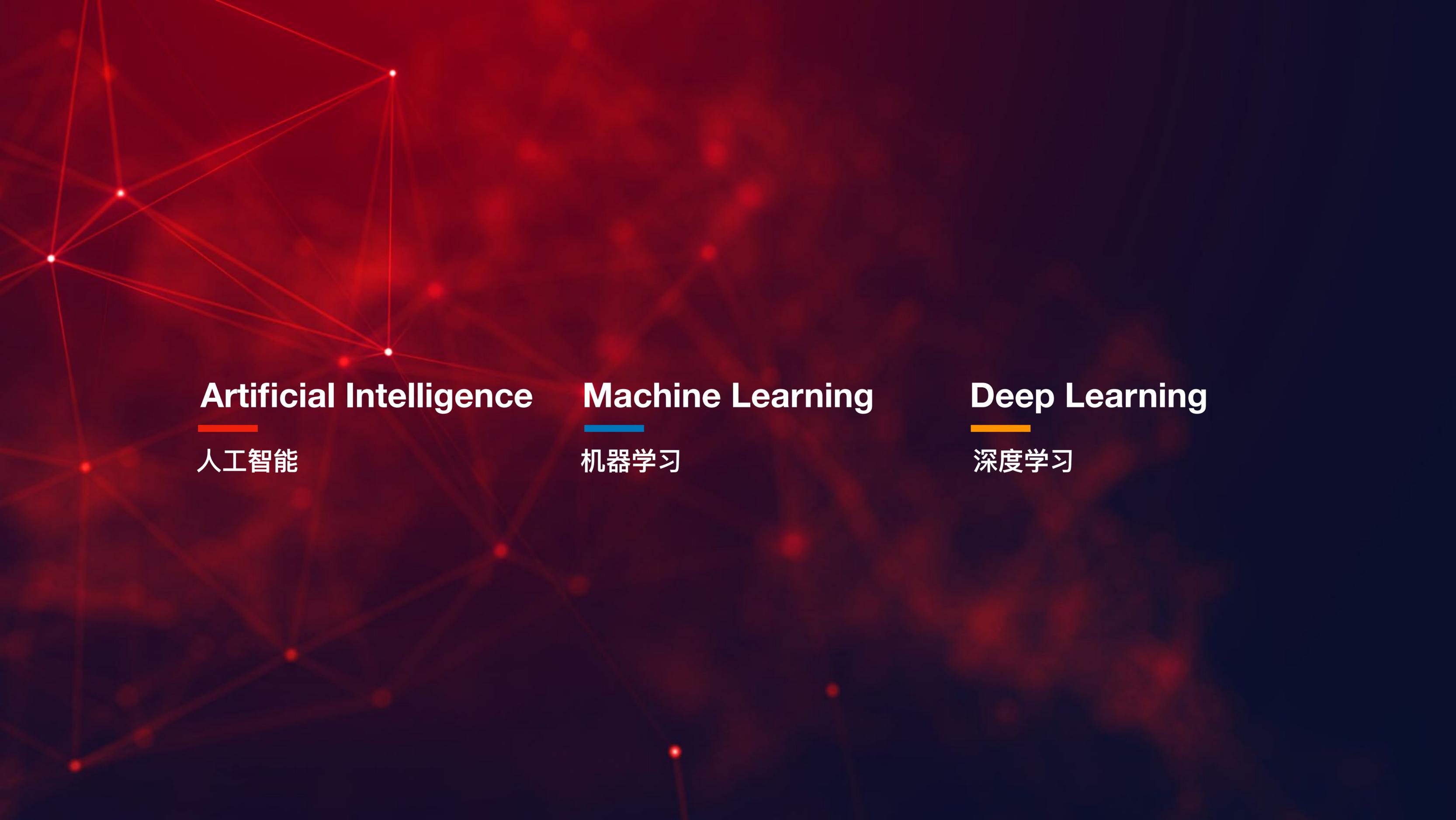
**Data** + **Algorithm**



数据



算法



**Artificial Intelligence**

人工智能

**Machine Learning**

机器学习

**Deep Learning**

深度学习

# Artificial Intelligence

人工智能

1950s

# Machine Learning

机器学习

1990s

# Deep Learning

深度学习

2010s

**Data & Cloud**

大数据 云计算

**Deep Learning**

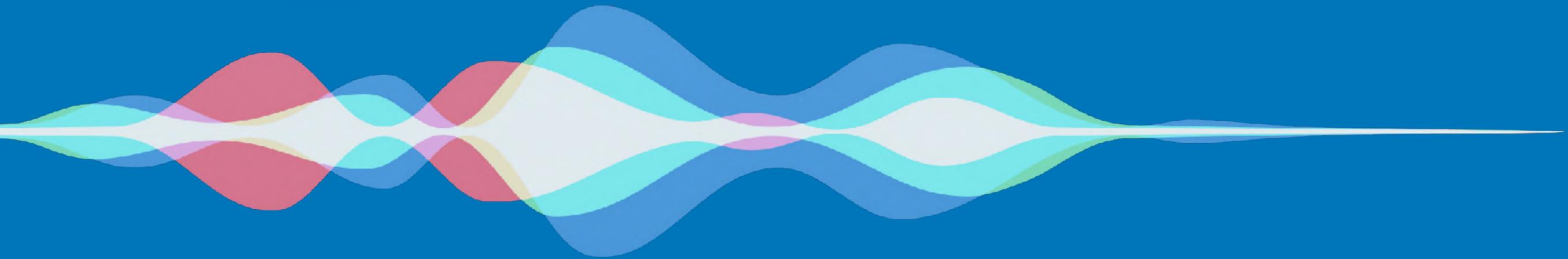
深度学习

**GPU & TPU**

图形处理器

# Voice User Interface

声音交互界面

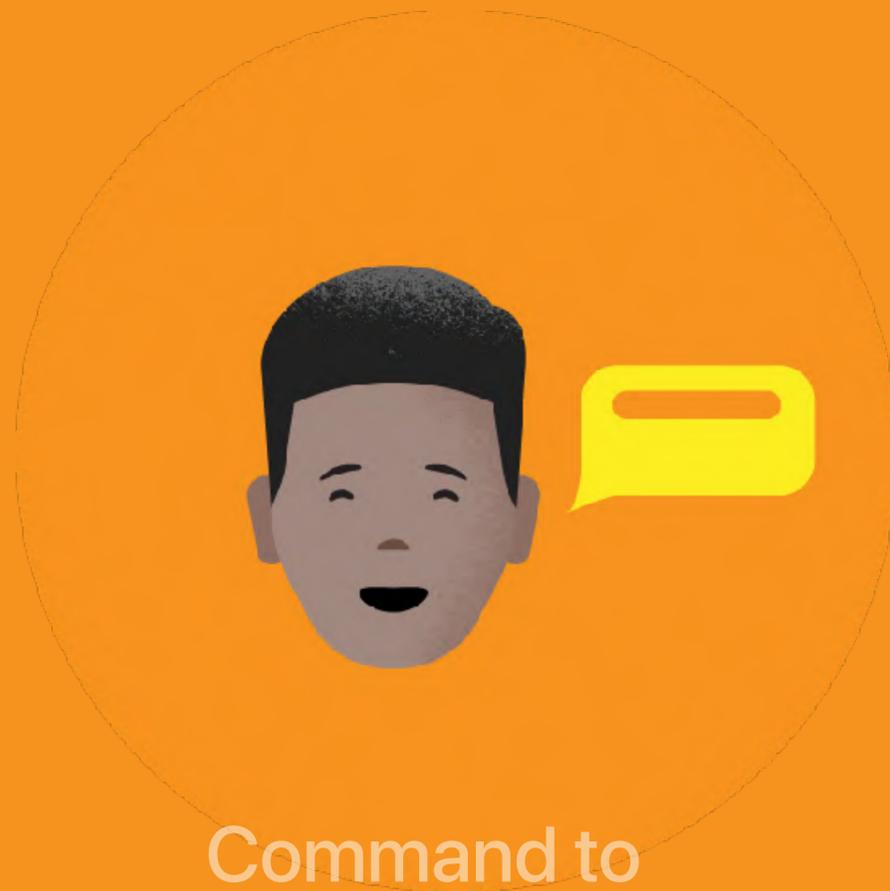




## Function to Scenario

---

从功能化设计  
到场景化设计



## Command to Natural Language

---

从规则指令交互  
到自然语言交互



## Single Interface to Ubiquitous Interfaces

---

从单屏互动  
到多屏互动

“若琪”



## 自然图形化界面



场景化需求



人性化交互

美的事物，是永恒的喜悦

让交互变得更加自然，简单



# AI x Designer

人工智能x设计师

## Natural & Intuitive

自然 & 本能

## XUI

为所有感官而设计

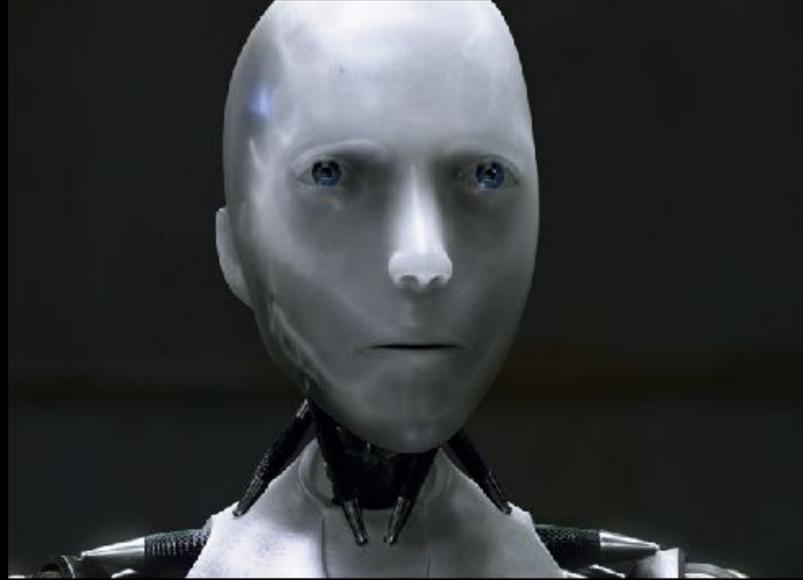
## Progressive Design

渐进式设计





用户脑海中的人工智能



结局似乎都不太好

Her 离我们还有多远



我们希望：

他能跟我很正常的谈话 就像一个普通人

他会了解我 — 懂我

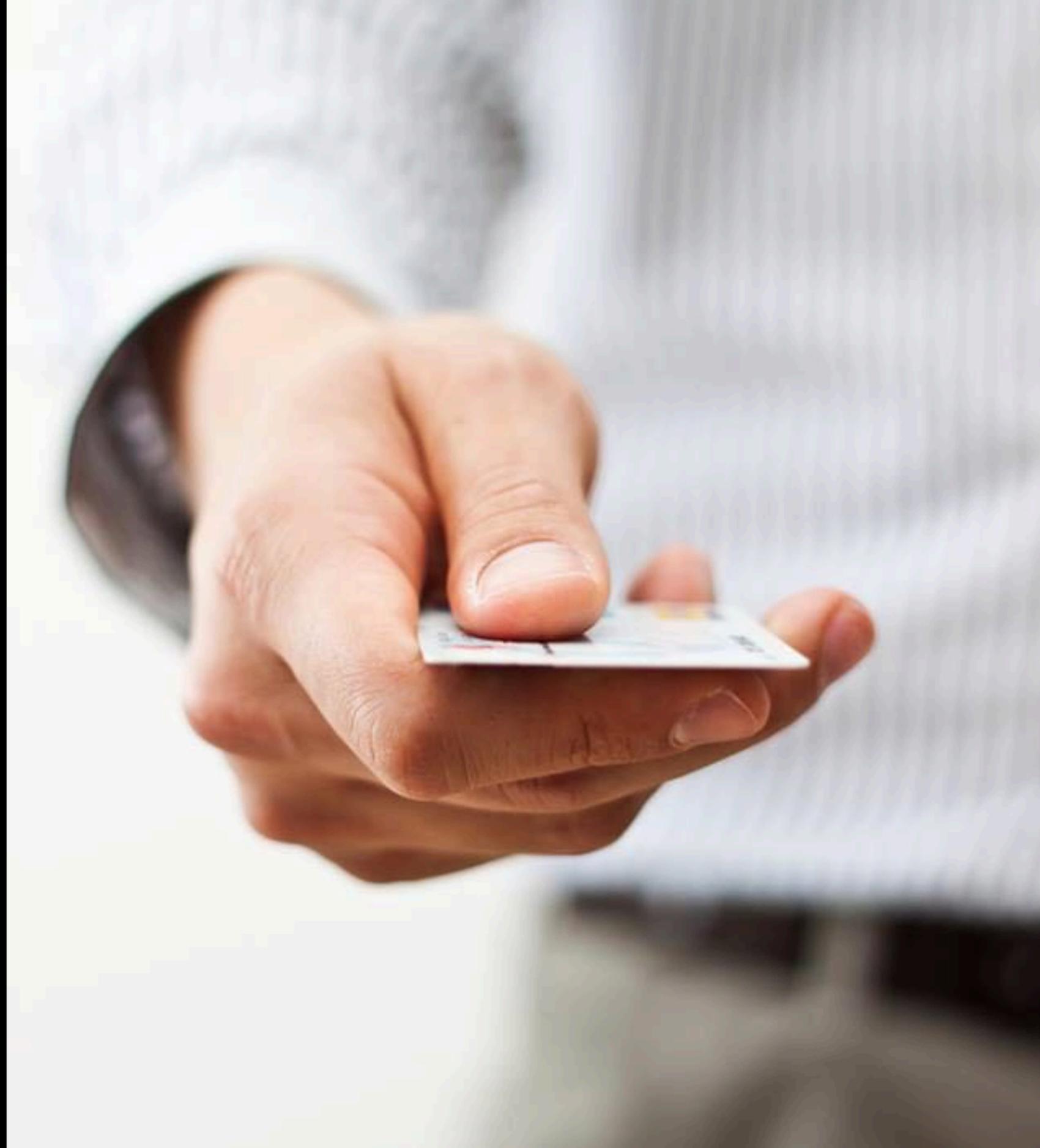
Rokid

他要让生活变得更简单

他会慢慢变聪明 他一直在学习

他要让人开心和给人惊喜

不靠谱的银行信贷评估





## 鲁莽的自动驾驶



“聪明”的智能家电



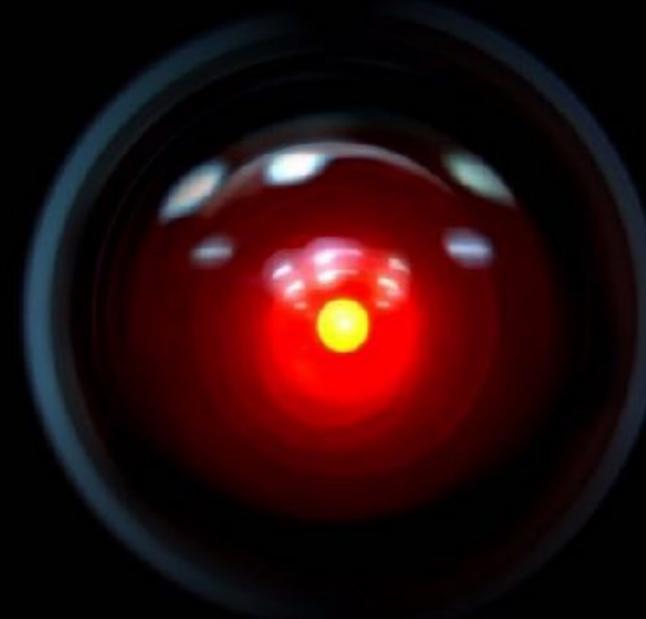
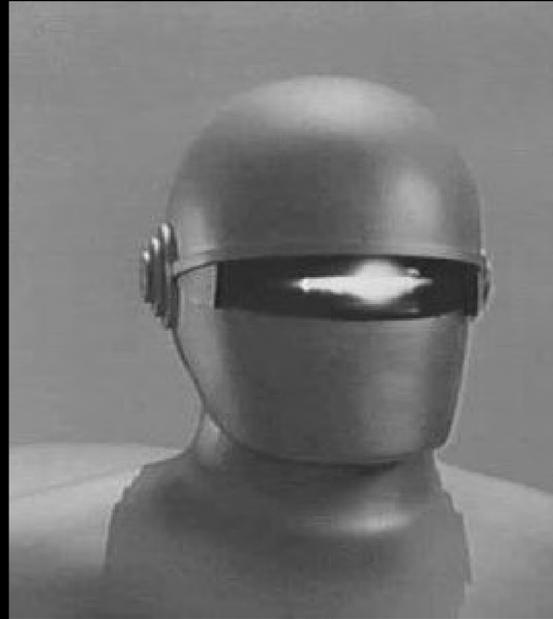
所谓的智能系统过度自满  
它们自认为清楚什么对人们最好

如果机器被认为有“主见”  
那他一定非常傲慢

人类：生物性和社会性质

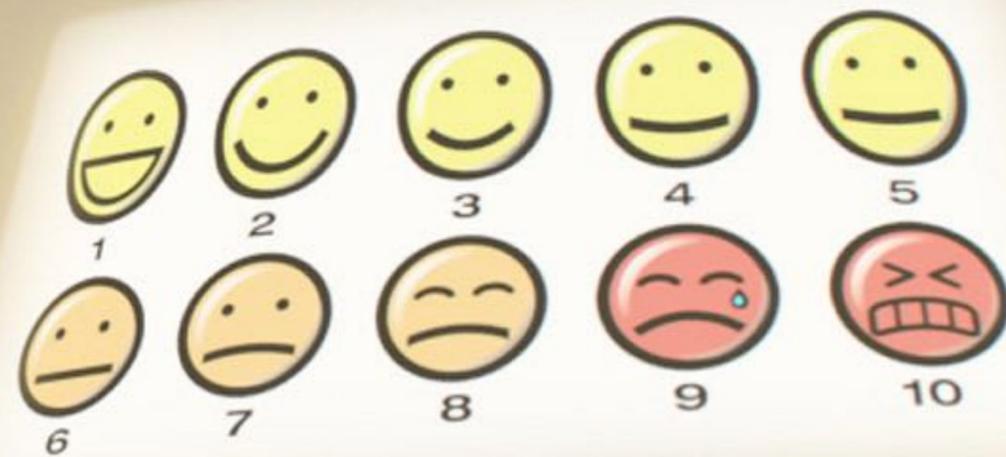
人工智能：逻辑...

设计一个基于人工智能的交互视觉设计

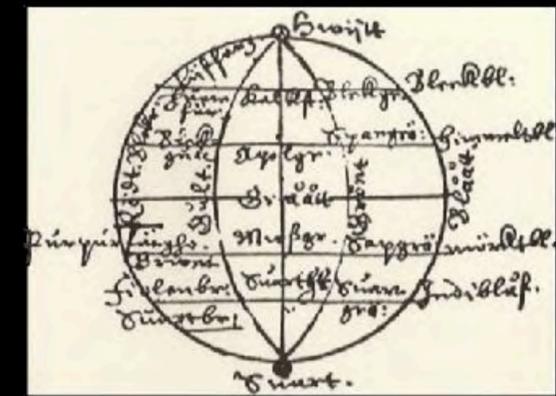
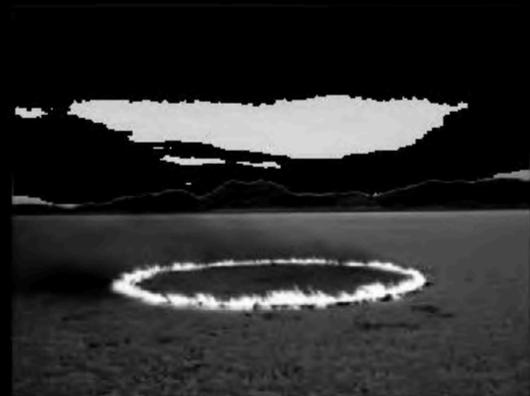
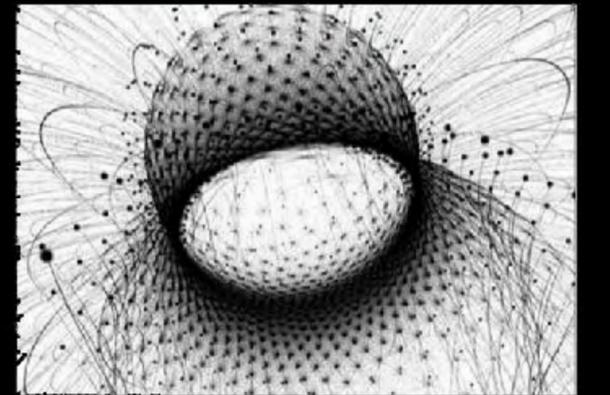
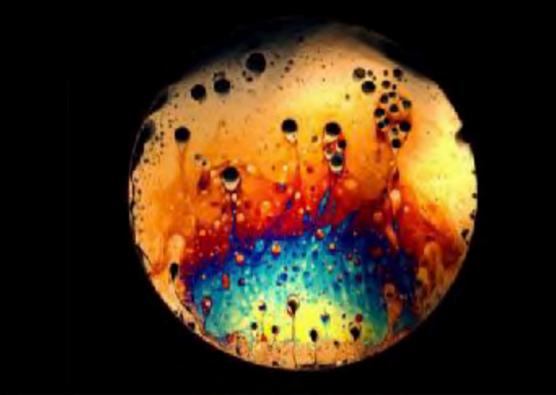
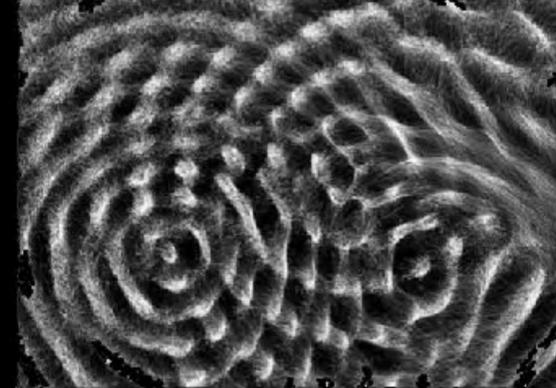
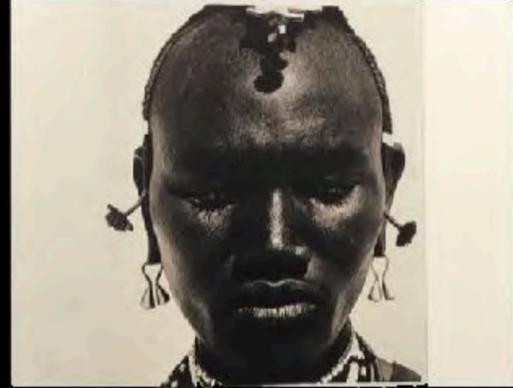


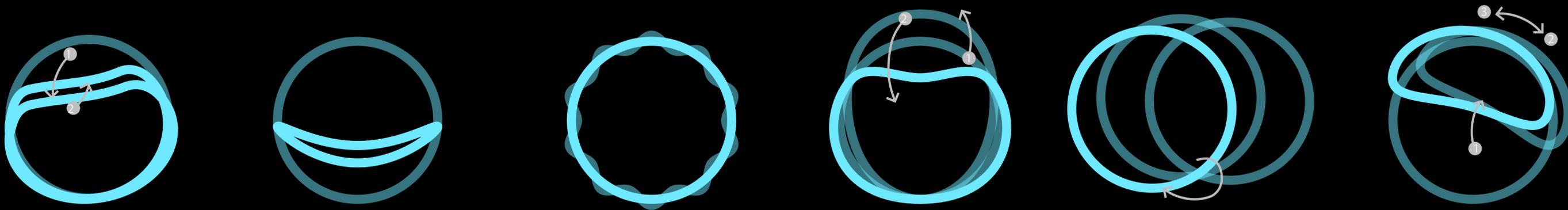
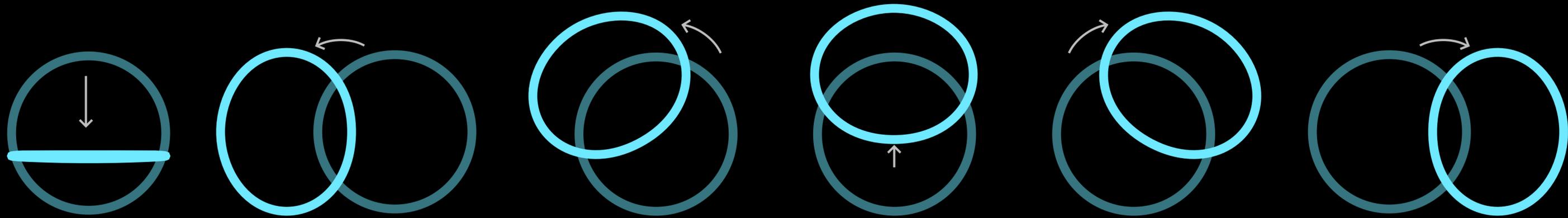
基于VUI+GUI  
更多空间  
更多的想象力





我们不是同类 但可以更好的协作





提供丰富、有内涵自然的反馈

基于场景，有预见性

易于理解、自然映射使互动清晰有效

没有负面情绪，不要用“错误”来形容用户的行为

THANKS

An aerial photograph of a tropical beach. The water is a vibrant turquoise color, and the sand is white. A long wooden pier extends from the beach into the water, with several blue and white speedboats docked at its end. On the beach, there is a thatched-roof building, palm trees, and a row of thatched umbrellas. The text "这是最有想象力的交互方式" is overlaid in the center of the image.

这是最有想象力的交互方式



Participate

参与

Create

创造

Achievement

成就

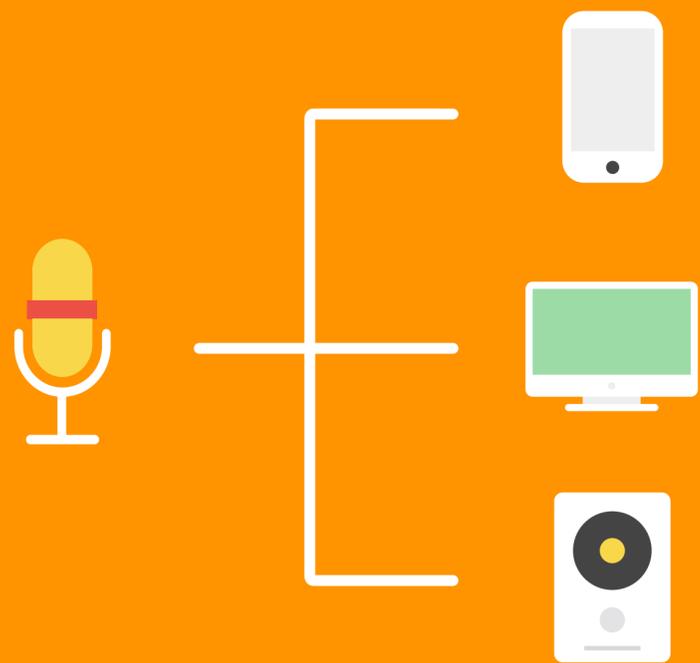
# Rokid Developer Community

Rokid 开发者社区

# Rokid Skills Kit

若琪技能开发工具





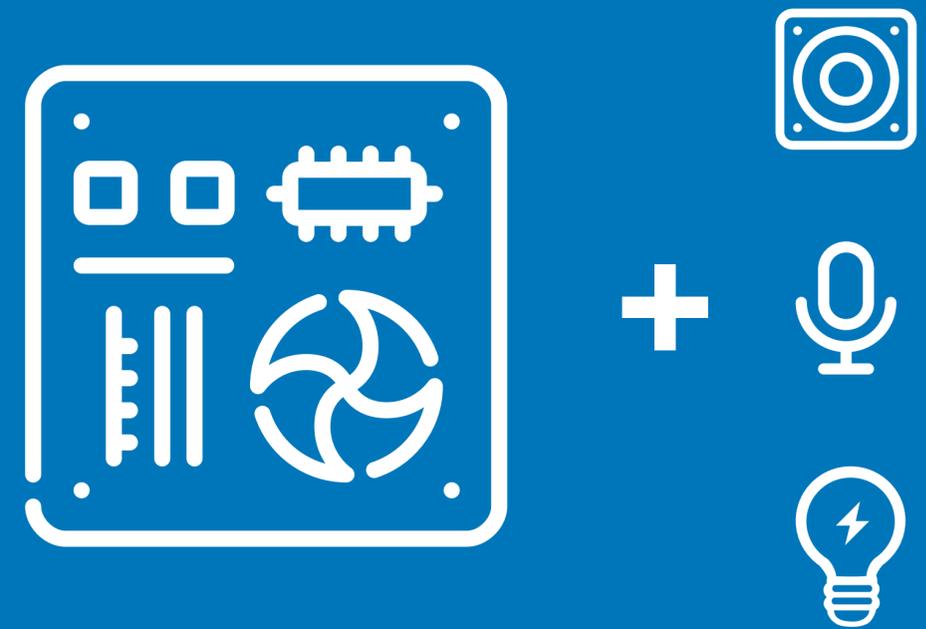
# Enable Rokid Voice

---

若琪语音接入工具

# Dev-Kit

Rokid开源硬件开发套件



大家能做到什么呢？

# 每个人都是创造家

---

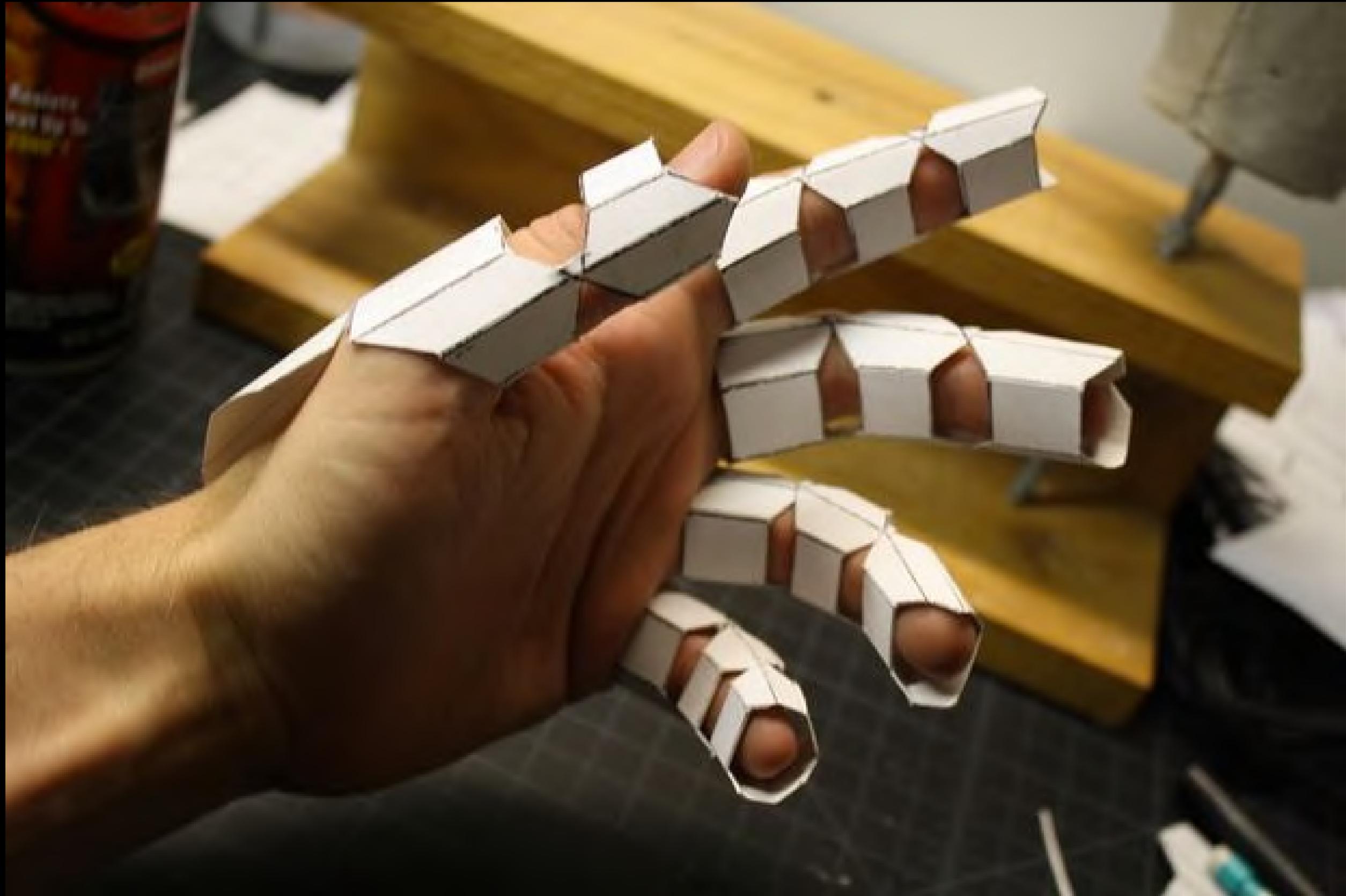
今天的所有创意都有机会做成Skill在Rokid开发者社区中实现

「创意来自 IxDC 2017 Beijing」



ironPhone — custom made sketch preview tool

Crafted by [chipsa.ru](http://chipsa.ru)







Thanks!