

Raph Koster

VP of Creative Design

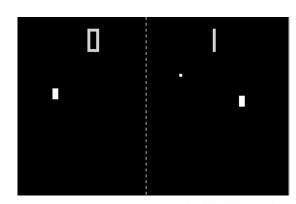
Playdom



2012游戏开发者大会。中国 GAME DEVELOPERS CONFERENCE CHINA SHANGHAI, CHINA NOVEMBER 17-19, 2012

> About me













Games are culture now



In other words we spend less time on the things that once shaped our cultures.





> More young people see game art than this art. > Poetry



More young people know the stories of games than know the great writers.

> Music



More young people every year hear the music of games rather than the music of their people.



> As culture changes...



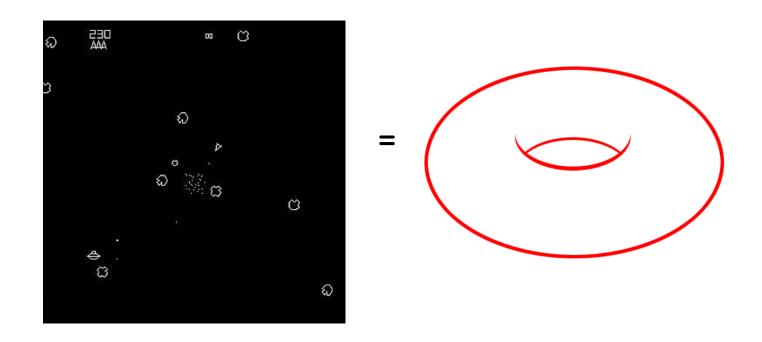
> We in this room are shapers of culture.

> We have a special kind of power.

> Appearance and topology



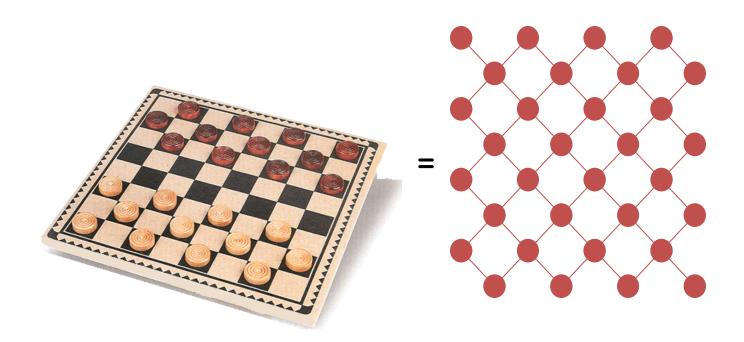
> Games are not what they look like
on the surface.



> Appearance and topology



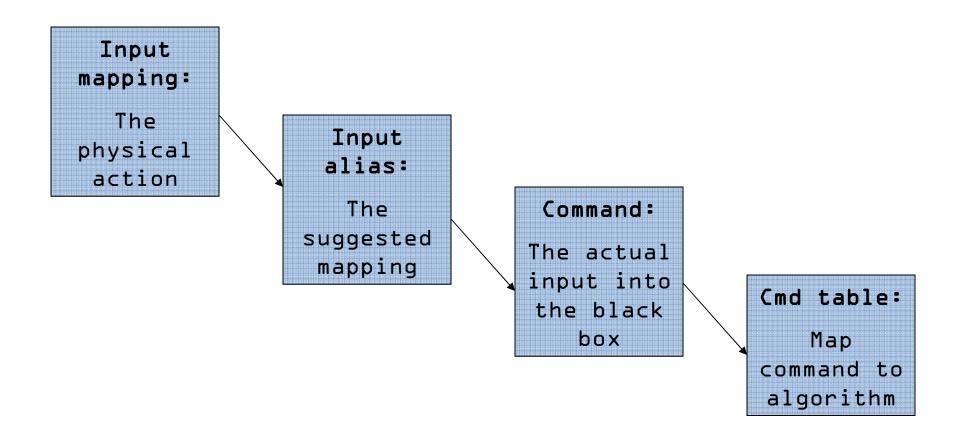
Games are not what they look like
 on the surface.



> Controls

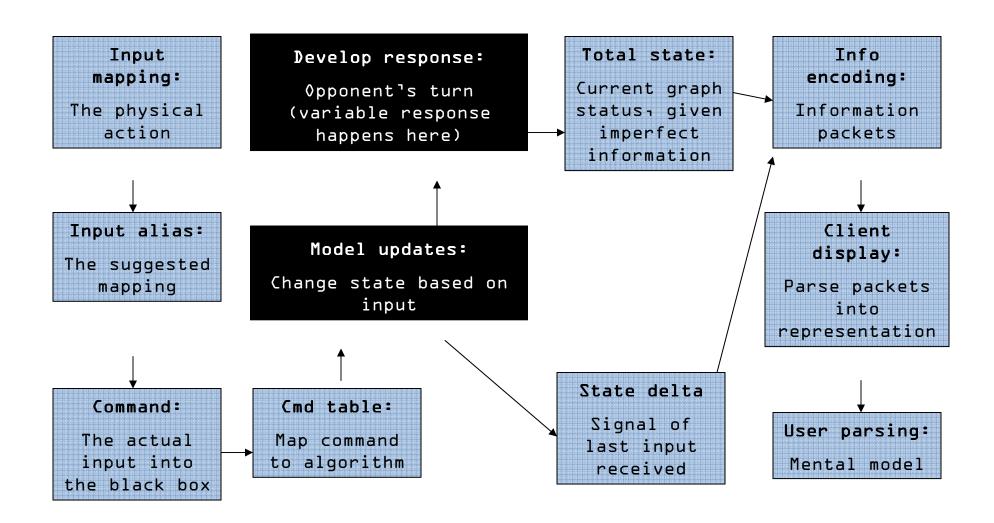


> Games are not their controls.



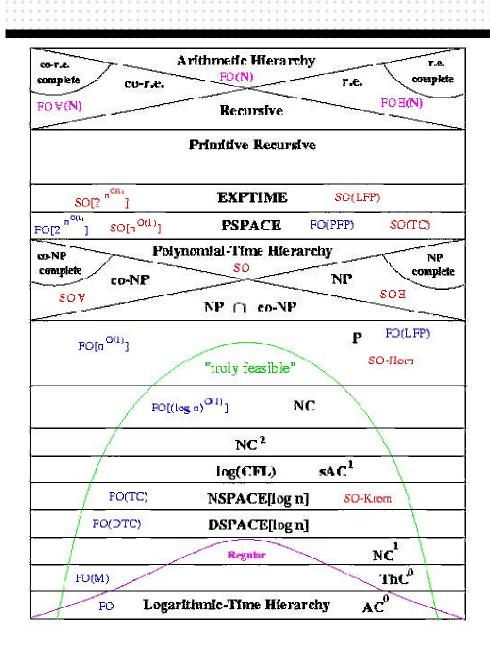
> This is what games are like





Games are largely math problems



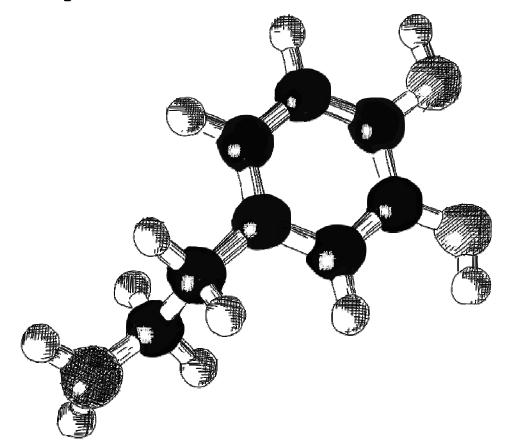


> Specifically₁
most games
have NP-hard
problems at
their heart.

> "Everything" is math



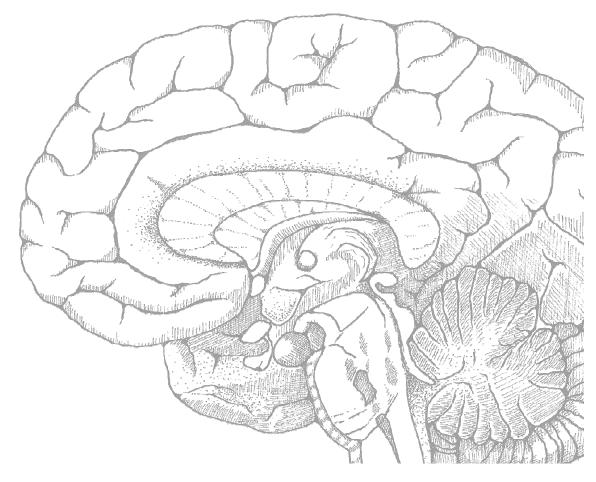
But the ways in which art musical or writing trigger brain neurochemistry are different.



> Neuroplasticity



> All our experiences change our brains.



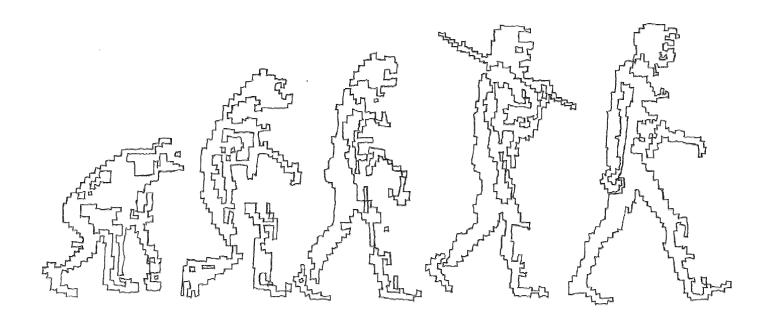


How Games Think = How We Think

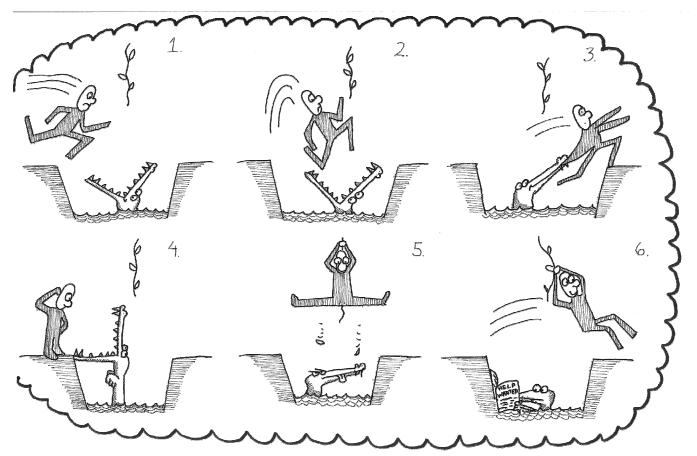
> Quantification



- Games invite categorization
 quantification and quantization.
- > We used to experience the world in a more analog way.



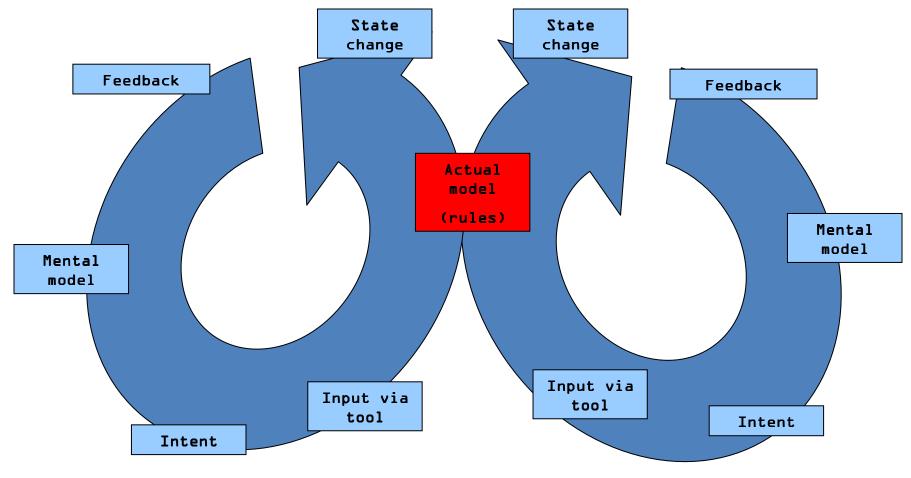




> Implicit opponent



Conflict has been a part of much art but not all.



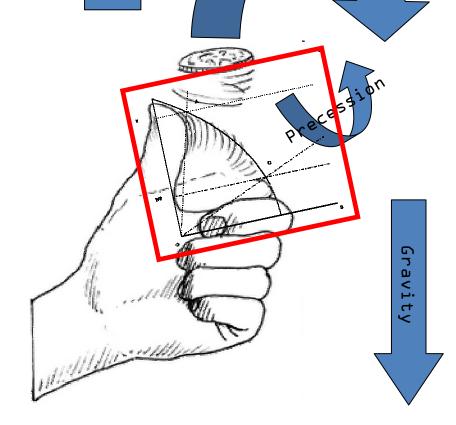
> Process & verbs



Upwards force

Lateral force

> Games are
about action.



> Goals



- > Goals are made extremely clear
- > In many games there is only one
 way to get to them.



> Failures and retries



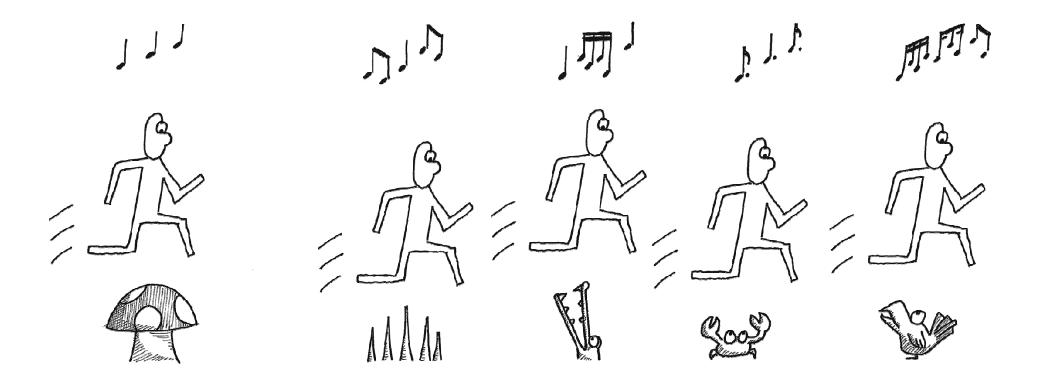
You can keep trying. There is always another match, another life.



> Neophilia



Games tell us there is something new around the corner.

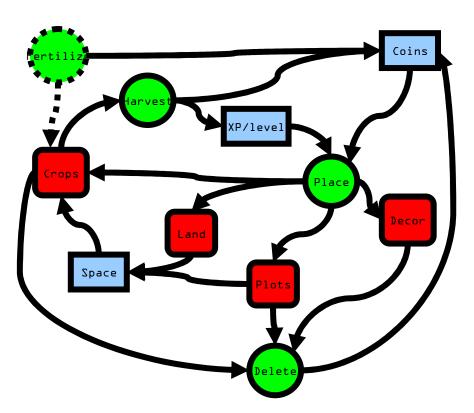


> Systems



Games are not
 about
 understanding the
 rules (though
 advanced players
 may).

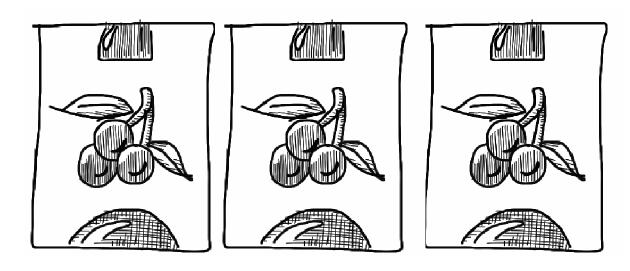
Instead they are
 about
 understanding the
 system.



> Feedback



- > As the systems change they tell us how.
- > But we are susceptible to feedback
 - our brain has bugs.



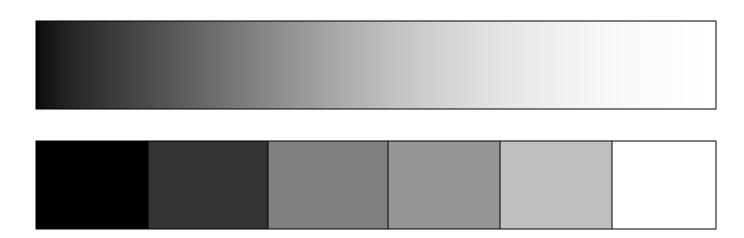


So how do games then make us think?

We now have a generation who grew up with them. We can see.

Reductionism



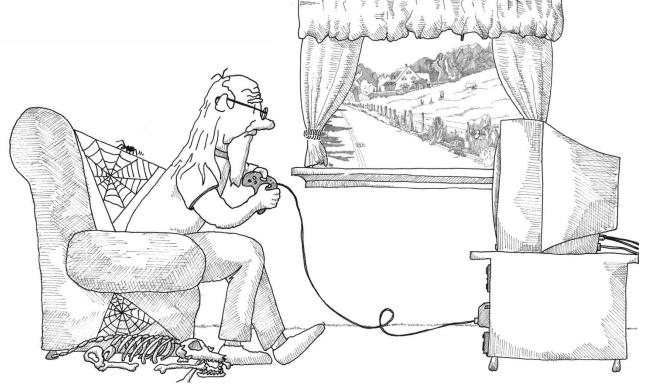


Games teach us to reduce and simplify because they quantize.

> Ability to focus



Because games provide constant feedback they undermine certain types of concentration.



> They don't need to...

Collaboration





> They are profoundly collaborative.

> Following rules

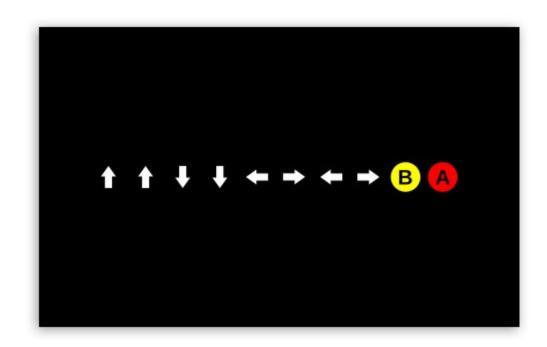


Younger people entering the workforce seem to expect there to be rules for things that are usually unstated.

Cheating



> There is also the notion that there must be a shortcut, "cheat code" or equivalent.



> Buying past problems



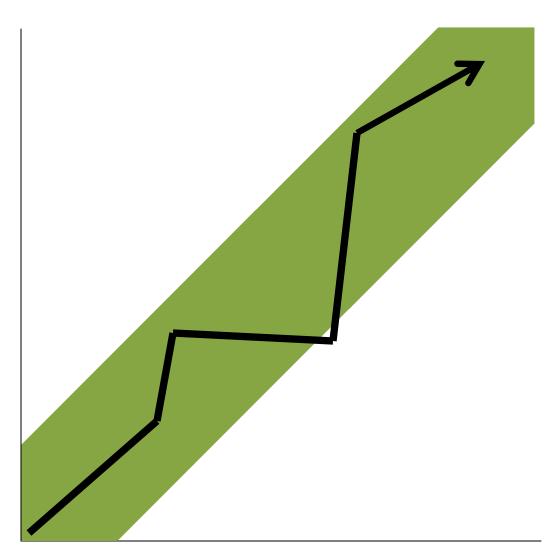


> In the
 microtransaction
 marketplace we
 have taught
 people that you
 can buy your way
 out of problems.

Game probability distribution



> In games we
use a classic
rising action
curve for
difficulty.



Game probability distribution

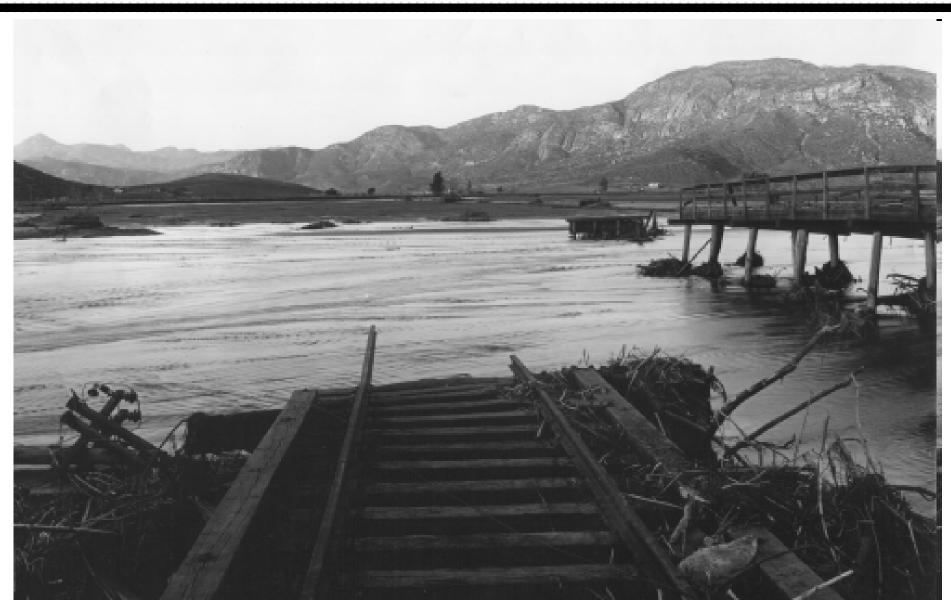




> But the real world does not work this way.

> Game probability distribution





> Optimizing our customers



- > We treat customers as aggregated data.
- > This is good business.
- But it means that we can run experiments to see what works without understanding WHY.
- > This can lead to ethically questionable choices.

> The clockwork world & art



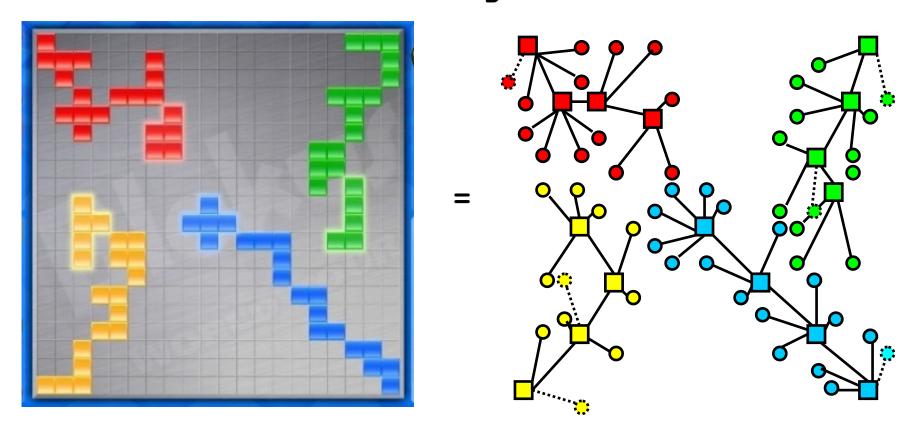


- All of these
 effects sound
 like they may
 be negative.
- > But there is
 still scope
 for art and
 beauty.

Positive effects



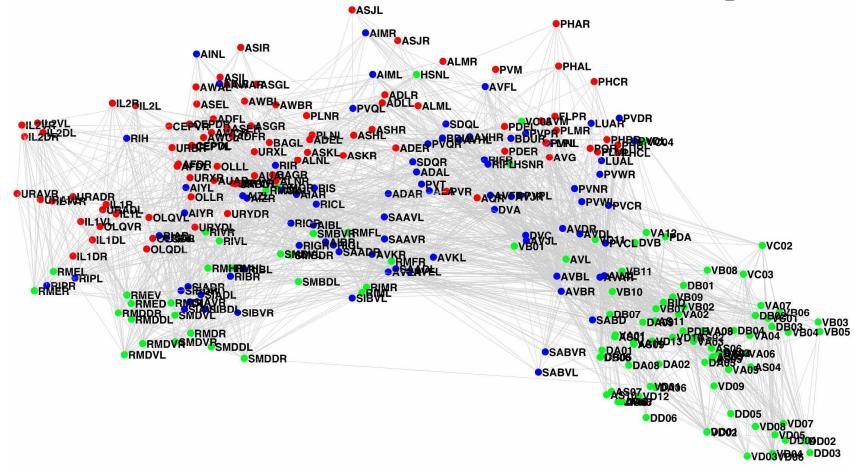
> People have gotten better at seeing the essential things that matter.



> Systems thinking



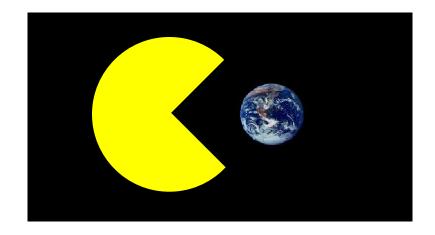
At systems thinking, and seeing the interconnectedness of all things.



> Teaching tractability



- > On the other hand they also come
 in believing that every problem can
 be solved.
- > Games never give us impossible problems.
- > The real world sometimes does.



> Happiness



> The science of happiness tells us that games are good at the things that make people happy.

Gratitude
Using your strengths
Social connection
Generosity
Mindfulness: savoring your experiences
Striving for goals
Optimism
Don't reduce the bad - increase the good

> Game design is mind control



- > It can be easy to think of this as just business every day.
- > We have a tool of immense power.
- > We are makers of joy.