

EVOLUTIONÄRE LERNSPIELE



VORTRAG VON TSUYOSHI ITO

INHALT

- Einleitung
- Konzept: Evolutionäre Lernspiele
- Anwendung: PM Game



WAS IST EIN EVOLUTIONÄRES LERNSPIEL?

- dynamisches, grösstenteils selbstorganisierendes Lernspiel mit benutzergenerierten Inhalten



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WEB 2.0

moritzleuenberger
Notizen zu Politik und Gesellschaft

2007-09-04
Wahlkampf und Pulverdampf
Von moritzleuenberger @ 18:04 [Umwelt, Energie, Raumentwicklung]
[Version française Energie, climat et campagne électorale]

Werden die Aktionspläne umgesetzt, kann die Schweiz auf ein AKW in der Grössenordnung von Leibstadt verzichten. (Bild: Keystone / Gaëtan Bally)

Am Montag habe ich die **Aktionspläne** zur Energieeffizienz und zur Förderung erneuerbarer Energien vorgestellt. An der Medienkonferenz konzentrierten sich die Fragen bald darauf, ob mit diesen Massnahmen ein Kernkraftwerk eingespart werden könne. Diese Frage hat mich etwas überrascht, weil es bei den Aktionsplänen ja nicht nur um den Strom, sondern auch um Wärmenutzung und den wichtigen Bereich Mobilität geht, die mit den KKW gar nichts zu tun haben. Meine Antwort war, dass wir auf den Bau von Gaskraftwerken verzichten können und zumindest keine zusätzlichen KKW bauen müssen, wenn wir alle Massnahmen umsetzen.

Mittlerweile habe ich die Rechnung noch etwas genauer gemacht: Wenn wir bei den erneuerbaren Energien mit unseren Massnahmen und den neuen Einspeisevergütungen 3500 Gigawattstunden zulegen und den Stromverbrauch auf dem Niveau von 2006 stabilisieren können (ohne Massnahmen würden wir 2020

INFO
Über uns

LETZTE KOMMENTARE
Der Verbrauch von...
@ W. Boskopp CERN =...
"Mir ist klar, dass es...
Ölabhängigkeit:...
@ Tom Das Wachstum ist...

LETZTE BEITRÄGE
Wahlkampf und Pulverdampf
Tante Roseli
Dem Monster in die Aug...
Das Prinzip wird sich ...
Hochwasser

KATEGORIEN
Alle
Diverses
Gesellschaft, Demokrat...
Kultur
Medien und Information...
Mobilität und Verkehrs...
Umwelt, Energie, Raume...

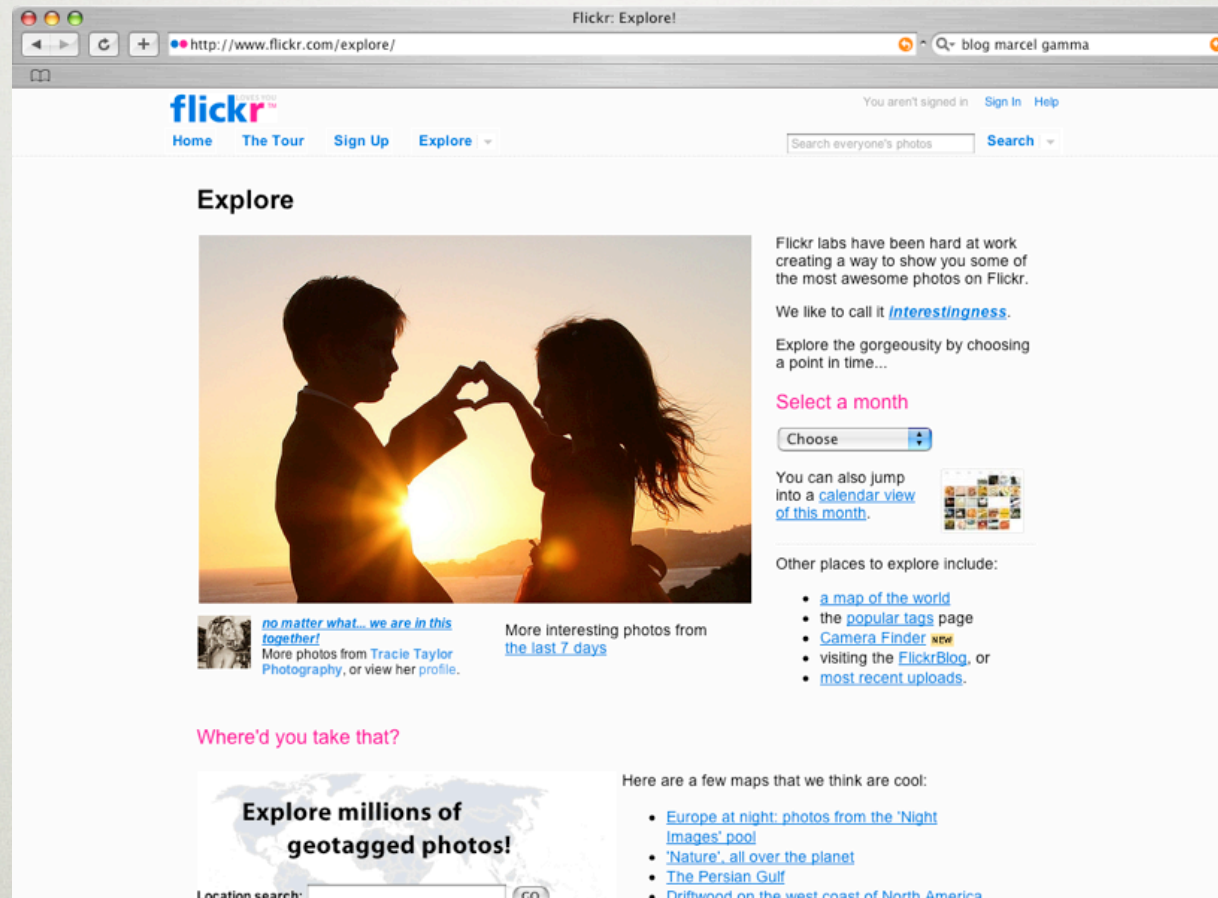
« September 2007 »

Mo	Di	Mi	Do	Fr	Sa	So
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

SUCHE



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The screenshot shows a YouTube video player for the video "Consumerism! The Musical". The video player is the central focus, displaying a scene with a large, glowing, insect-like creature in a dark, blue, ethereal environment. Below the video player, there are various interactive elements: a "Login to rate" button, a star rating system (4 stars), "Save to Favorites", "Share Video", "Flag as Inappropriate", "Add to Groups", and "Post Video" buttons. The video has 27,180 views, 58 comments, and 194 favorites. Below the video player, there is a "Comments & Responses" section with a "Post a Video Response" button.

At the top of the page, the YouTube logo and navigation menu are visible. The search bar contains the text "blog marcel gamma". The video title "Consumerism! The Musical" is displayed above the video player. The video player includes a progress bar showing 00:06 / 05:01. The video is provided by the user "whitstone84" and is categorized as "Film & Animation". The video has 166 ratings and 58 comments. The video player also includes a "Subscribe" button and a "Director Videos" section on the right side of the page. The "Director Videos" section lists several other videos, including "Weeds: Good Morning Aesthetic: Part 6 05:35" from CBS, "Japanese Robot Montage 01:53" from TokyoDV, "Sr. Carazo contando un chiste horrible 00:41" from mrcarezo, and "RE: Getting to Know YOU... TUBE! 03:00".



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The screenshot shows the Wikipedia Main Page in a browser window. The browser's address bar displays "http://en.wikipedia.org/wiki/Main_Page" and the search bar contains "Google". The page header includes the text "Main Page - Wikipedia, the free encyclopedia" and "Make a donation to Wikipedia and give the gift of knowledge!". Below the header, there are navigation links for "main page", "discussion", "view source", and "history". The main content area features a "Welcome to Wikipedia" message, stating it is the free encyclopedia that anyone can edit, with 2,003,013 articles in English. To the right, there are links to various portals such as Arts, History, Society, Biography, Mathematics, Technology, Geography, Science, and All portals. Below this, there are links for "Overview · Editing · Questions · Help" and "Contents · Categories · Featured content · A-Z Index". A yellow banner reads "The English language Wikipedia thanks its contributors for creating over two million articles." The "Today's featured article" section highlights the "Fightin' Texas Aggie Band" with a photo and a detailed description. The "In the news" section lists several recent events, including Asafa Powell's world record, the APEC summit, a car bomb attack in Algeria, Hurricane Felix, and the Taliban releasing South Korean hostages. The "On this day..." section lists events for September 11, such as National Day of Catalonia, Teacher's Day, the First War of Scottish Independence, and the Battle of Stirling Bridge. The left sidebar contains navigation, interaction, search, and toolbox sections.

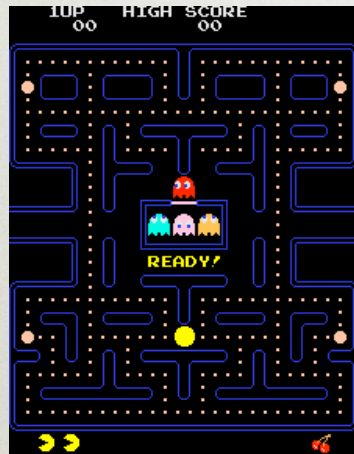


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GAME 3.0

- Single-Player > Multi-Player > UGC



GAME 3.0

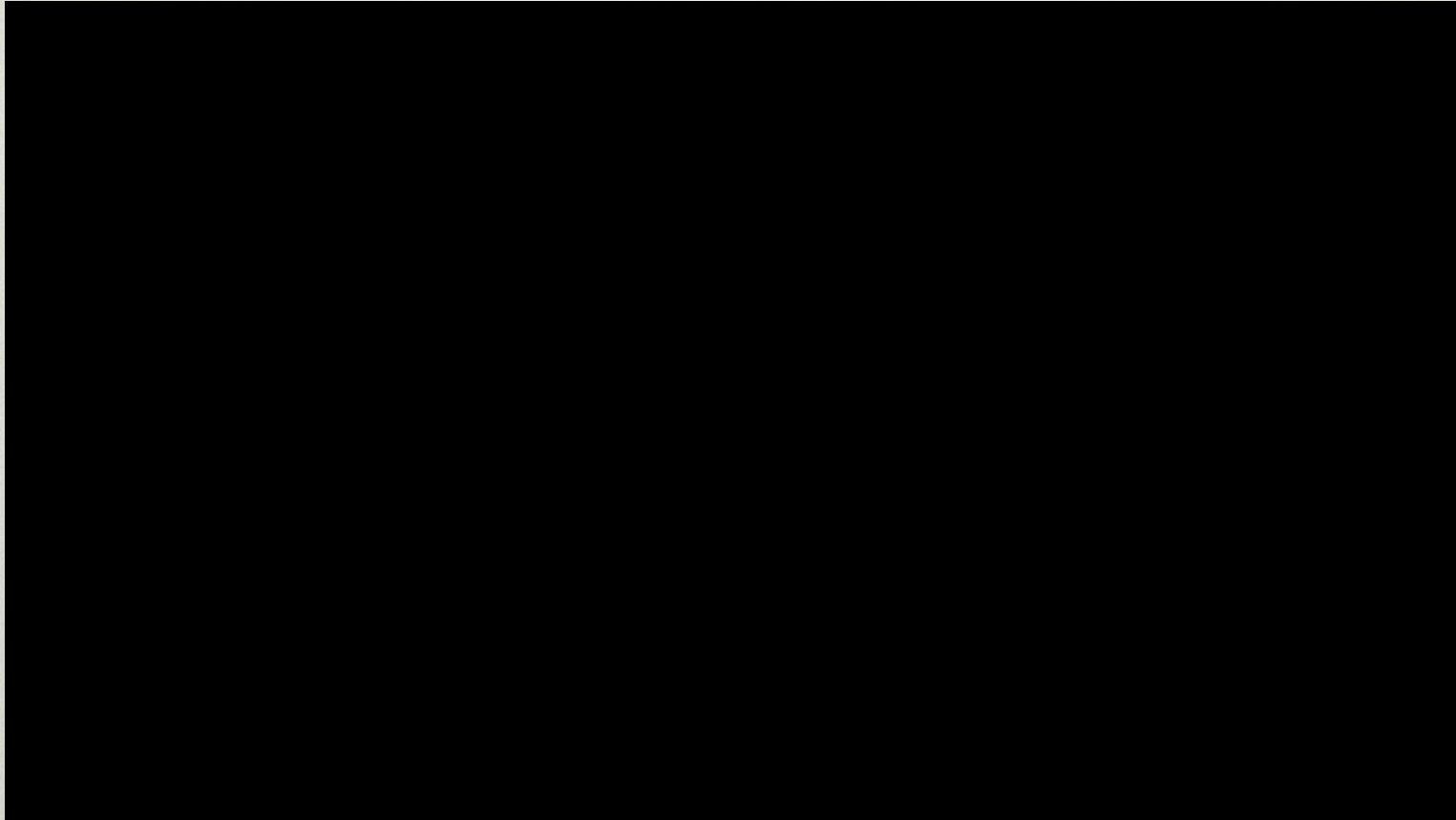
QuickTime™ and a
decompressor
are needed to see this picture.



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GAME 3.0



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TOOL SCRATCH



ENTWICKLUNGSKOSTEN

	UZH: with UGC	UZH: without UGC	extern: without UGC
Developers	60'000	50'000	260'000
Screen-/ Interactiondesigners	10'000	min. 10'000	min 50'000
Content developer	50'000	200'000	300'000
	120'000	260'000	610'000



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ENTWICKLUNGSKOSTEN

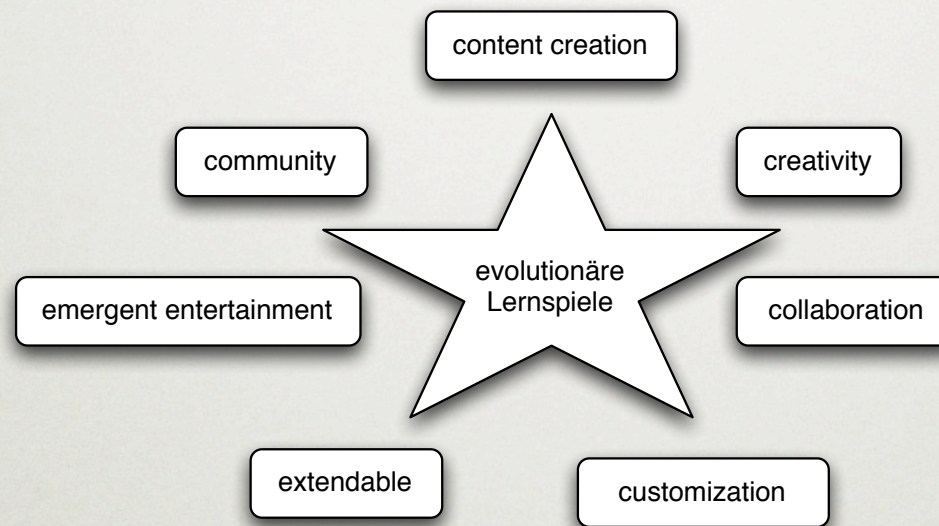


ABER

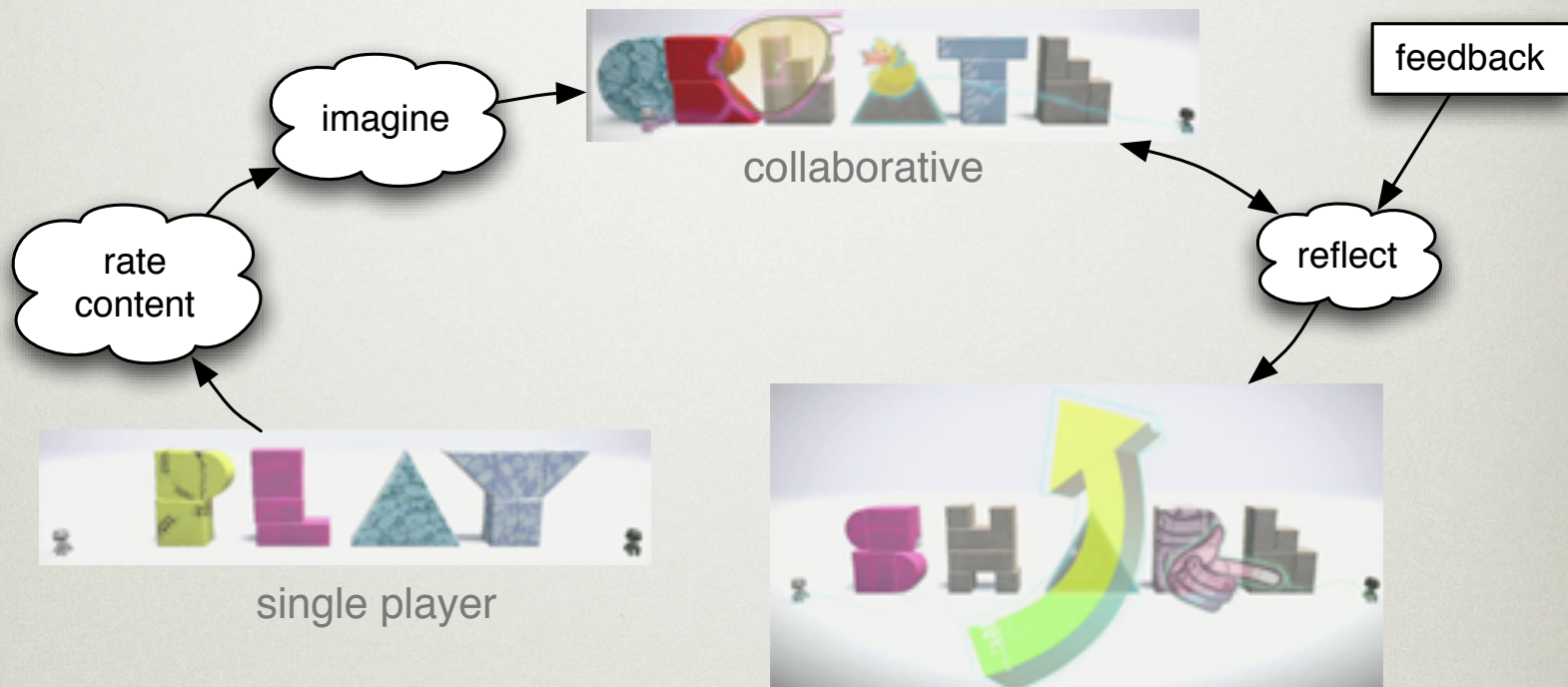


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ELEMENTE VON EVOLUTIONÄREN LERNSPIELEN



LERNEN MIT EVOLUTIONÄREN LERNSPIELEN



HERAUSFORDERUNGEN IN EVOLUTIONÄREN LERNSPIELEN

- Einschwingungsprozess
- Berechtigungssystem
- Qualitätssicherung
- Usability Regeleditor

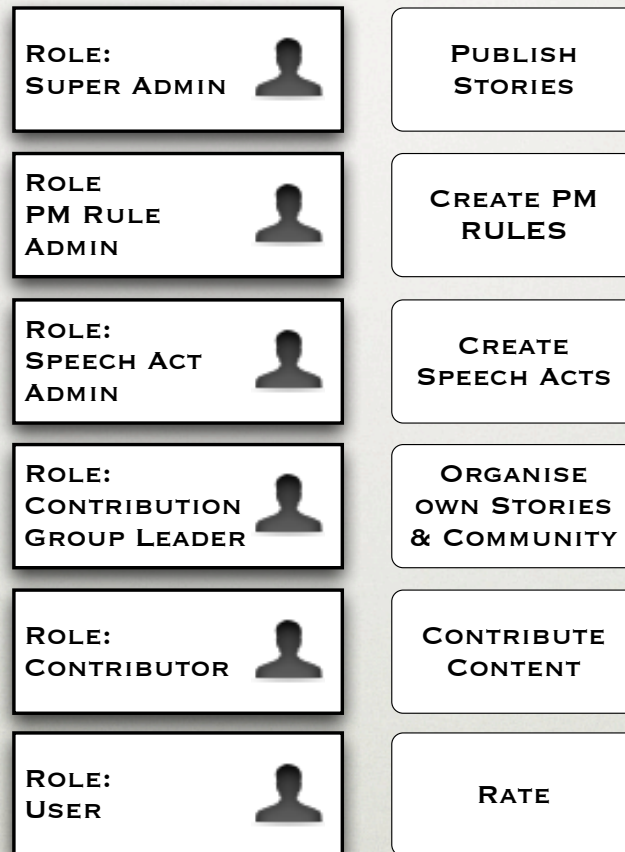


RESULTATE

- Richtlinien für das Design von evolutionären Lernspielen
- Erforderliche Massnahmen für den Einschwingungsprozess
- technische Massnahmen zur Qualitätssicherung
- Regeleditor



BERECHTIGUNGSSYSTEM



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QUALITÄTSSICHERUNG

- Reputationssystem
 - Bewertung
 - Feedback von Benutzern
- Wie oft wird eine Story gespielt
- Experten schalten Inhalte frei
- [Explizite & Implizite Weiterempfehlungen]



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REGELEEDITOR

Alice (2.0 04/05/2005) - E:\studie\purgathof\Alice2\Alice\Required\exampleWorlds\WakeSkater.a2w

File Edit Tools Help

World

Camera

Light

IceSkater

ThighL

Clothes

Abs

Chest

ThighR

Cube

IceSkater's details

properties methods functions

skate howManySteps edit

spin edit

blinkEyes edit

setBlink shouldBlink edit

lookAndWink edit

simpleSpin edit

circleAround whichObject edit

skateBackwards howManySteps

jump edit

go wireframe edit

go solid edit

create new method

IceSkater move

World.my first animation

World.my first animation No parameters

No variables

Wait 1 second

Camera set point of view to <None> point of view of = Camera.PointOfView2 duration = 2 seconds more...

Wait 1 second

Camera set point of view to <None> point of view of = Camera.PointOfView more...

Do together

IceSkater turn left 0.45 revolutions more...

IceSkater set pose IceSkater.pose more...

IceSkater.skate howManySteps = 1

IceSkater.simpleSpin

// backwards and jump

Do together

IceSkater.skateBackwards howManySteps = 2

Do in order Do together IfElse Loop While For all in order For all together Wait print

Description: test

If any of the following conditions are met:

From Contains blabla

Sender is not in my Previous Recipients

Message is Encrypted

Any Recipient Contains ito@ifi.unizh.ch

Message Content Contains ito@ifi.unizh.ch

Perform the following actions:

Move Message to mailbox: Inbox

Cancel OK

```
If (NPC.can_delegate_to == true AND NPC.mood != "bad")
Then
{
  NPC.say(I_will_do)
  NPC.do(parameter1)
}
```



DANKE FÜR IHRE AUFMERKSAMKEIT

- <http://www.ifi.uzh.ch/ee/people/ito>
- ito@ifi.uzh.ch



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