



Agent-based Models

Fatih Erikli

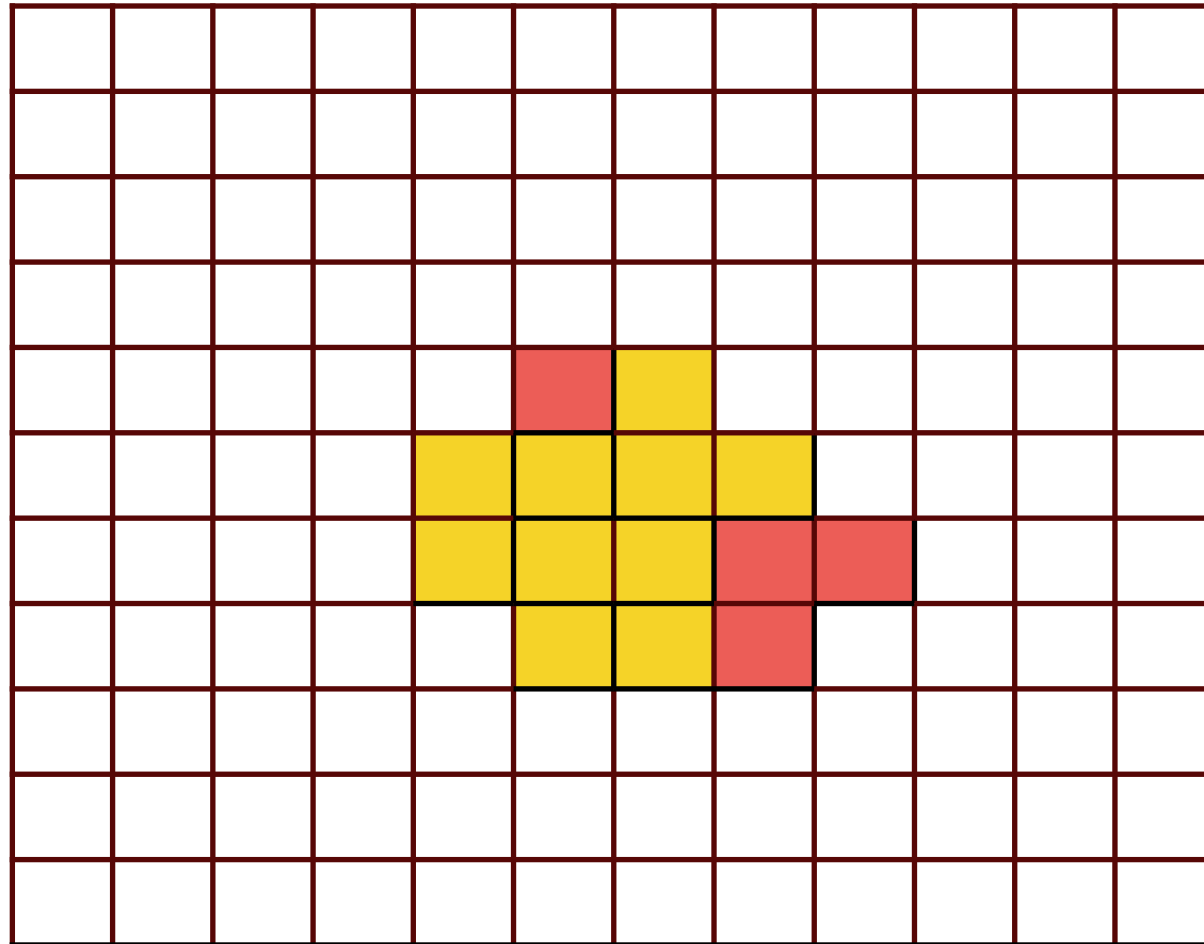
Javascript Developer @adphorus

<http://fatiharikli.com>

Nedir?

- Bir modelleme tekniğidir
- Modeldeki özerk (kendi başına hareket eden) parçalardan (agent) oluşur.
- Agent'ların çevrelerine ya da komşularına göre değişimleri büyük resmi oluşturur.

Deneyelim



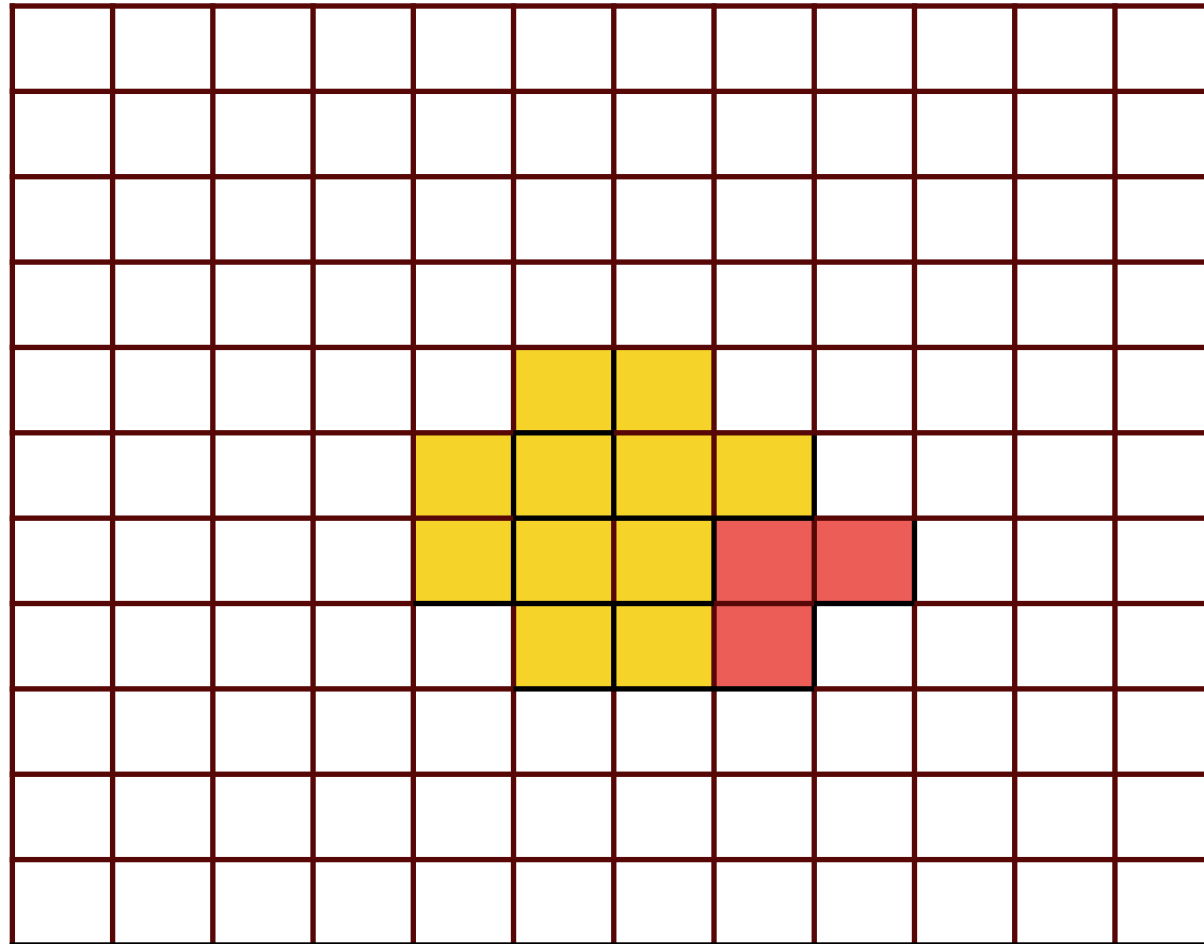
Iteration: 1

	python developer
	ruby developer

Kurallar

- Komşularında senin dilinden yazan yoksa, komşularının dilini öğren.

Deneyelim



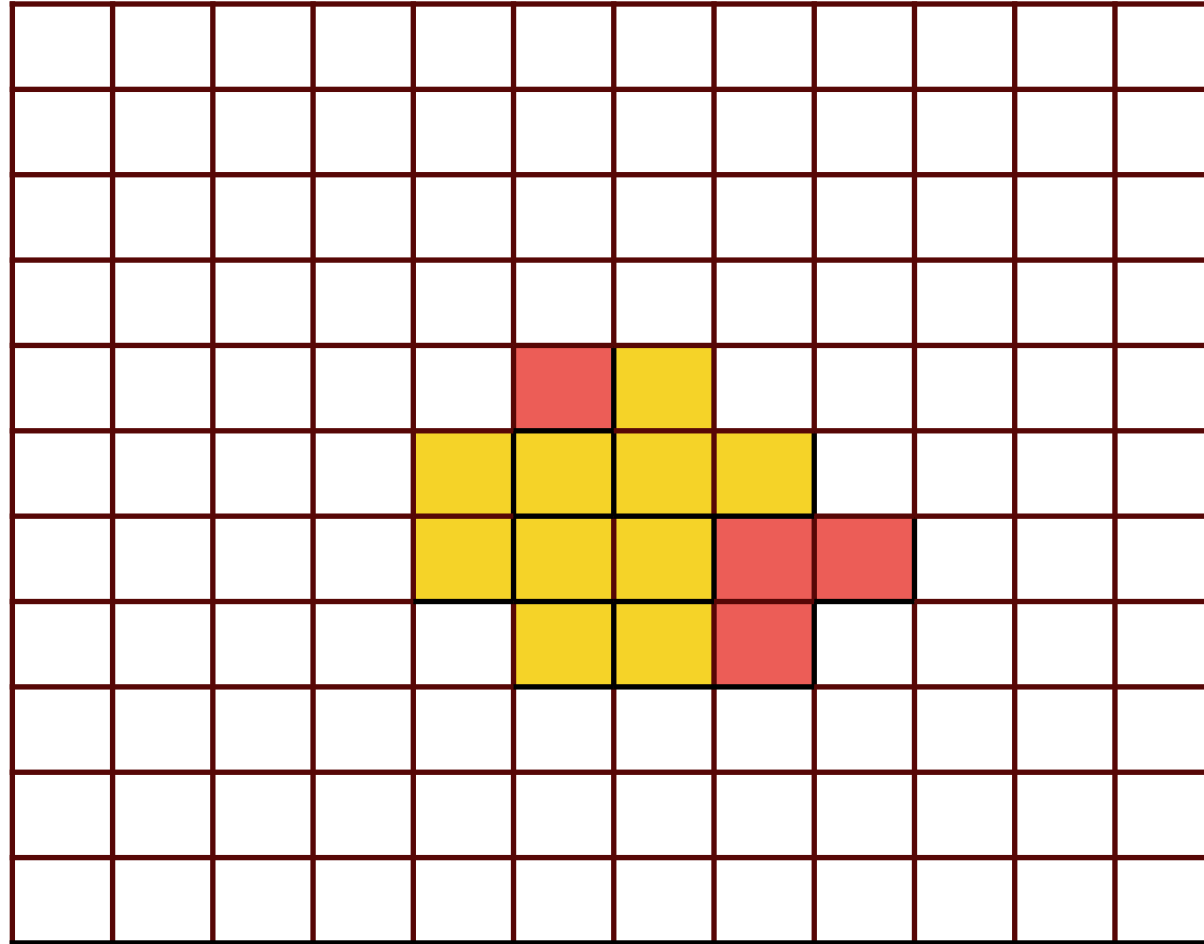
Iteration: 2

	python developer
	ruby developer

Kurallar

- Komşularında senin dilinden yazan yoksa, komşularının dilini öğren.

Başka bir örneği



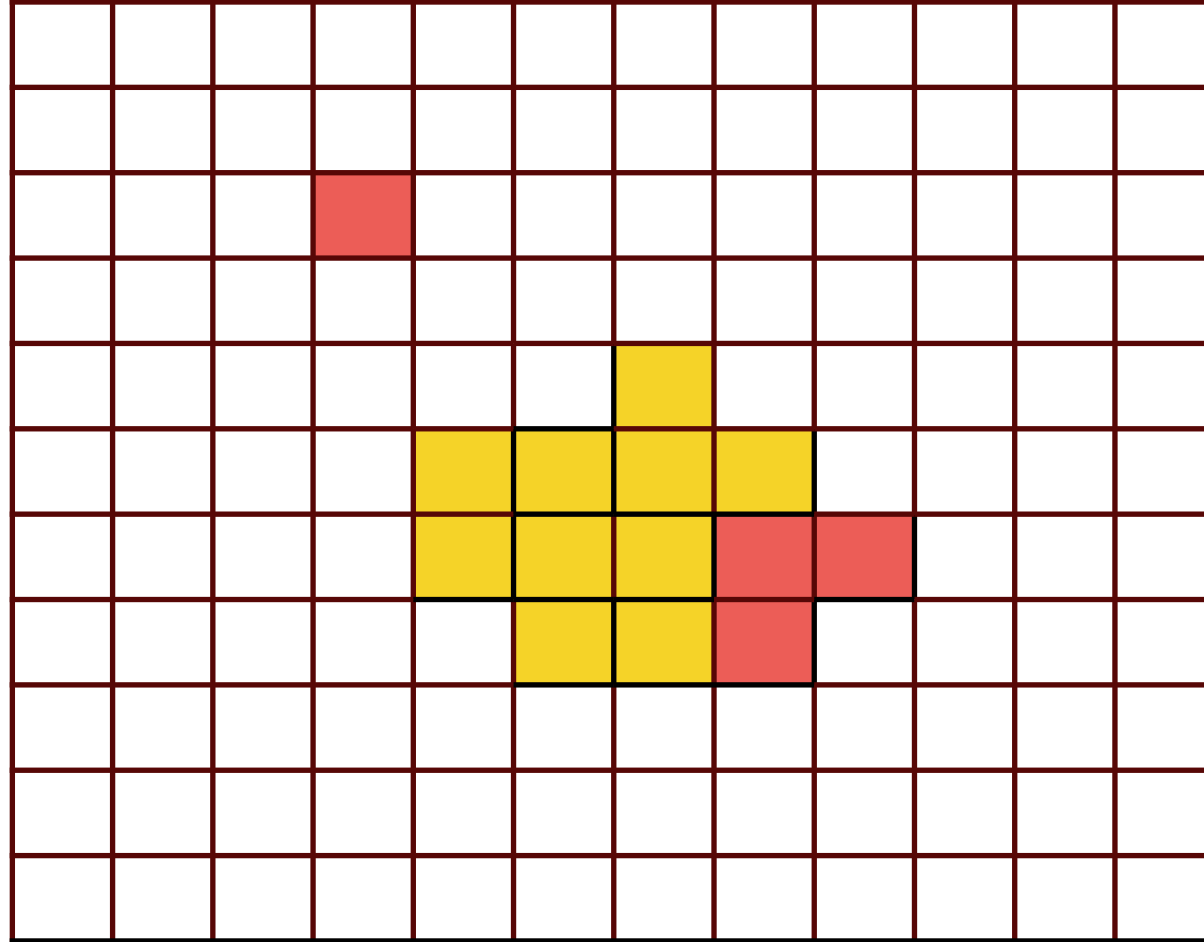
Iteration: 1

Yellow	python developer
Red	ruby developer
Gray	ölmüş birisi

Kurallar

- Hiç kendi dilinden yazan bir komşun yoksa, taşın
- Hiç komşun kalmamışsa, intihar et

Başka bir örneği



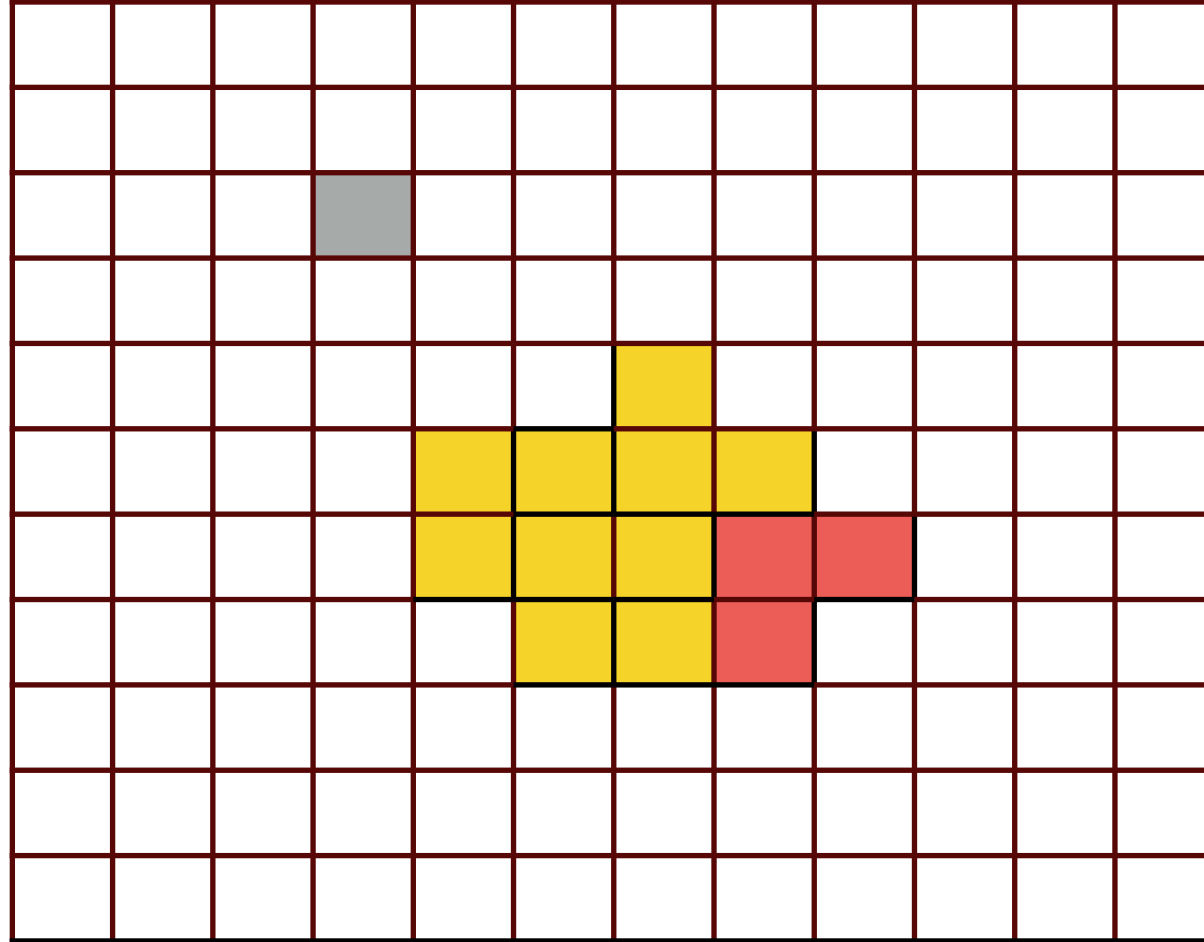
Iteration: 2

yellow	python developer
red	ruby developer
gray	ölmüş birisi

Kurallar

- Hiç kendi dilinden yazan bir komşun yoksa, taşın
- Hiç komşun kalmamışsa, intihar et

Başka bir örneği



Iteration: 3

yellow	python developer
red	ruby developer
gray	ölmüş birisi

Kurallar

- Hiç kendi dilinden yazan bir komşun yoksa, taşın
- Hiç komşun kalmamışsa, intihar et

Aşağıdan-yukarı
modelleme



Kelebek
etkisi

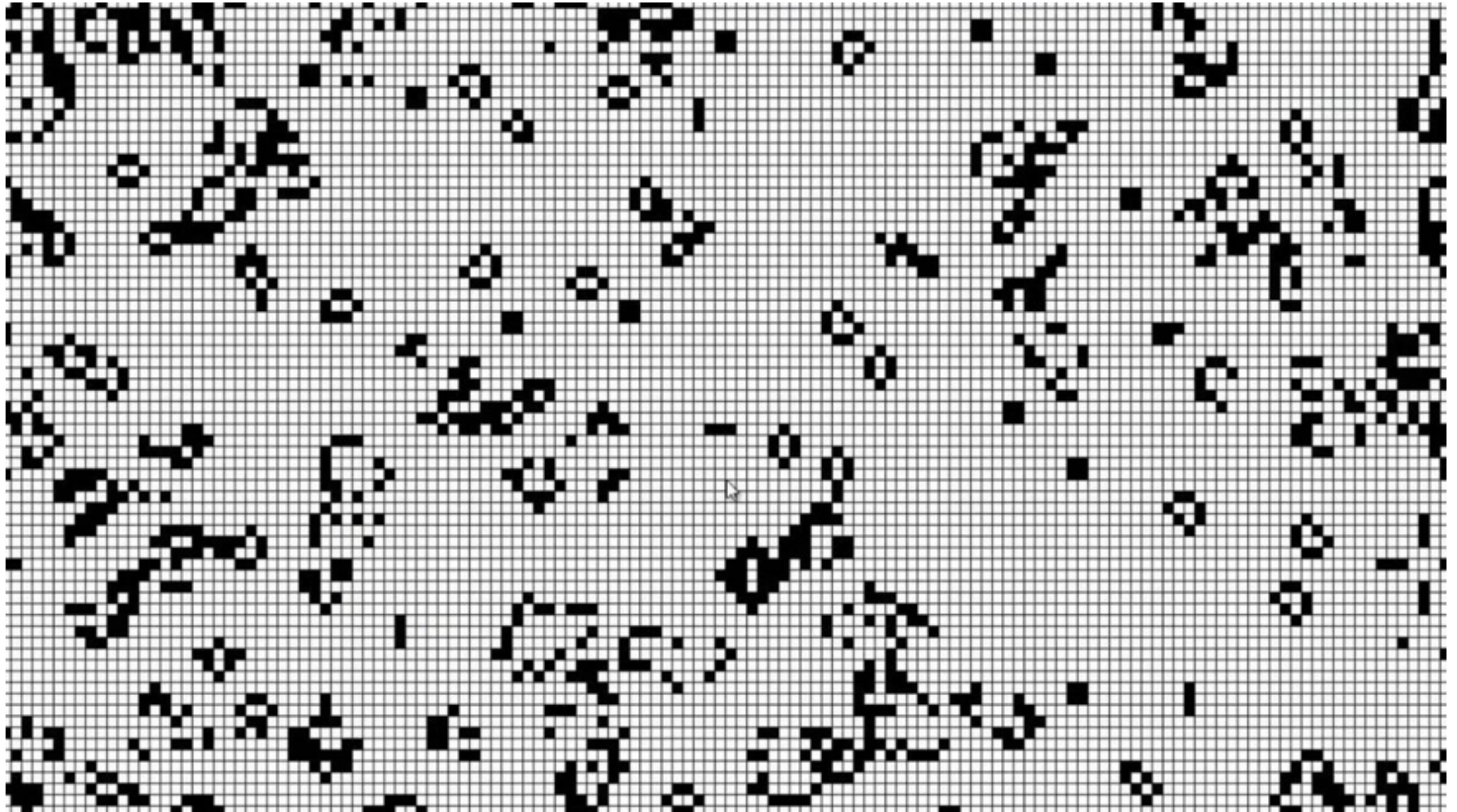


Belirme
(Emergence)

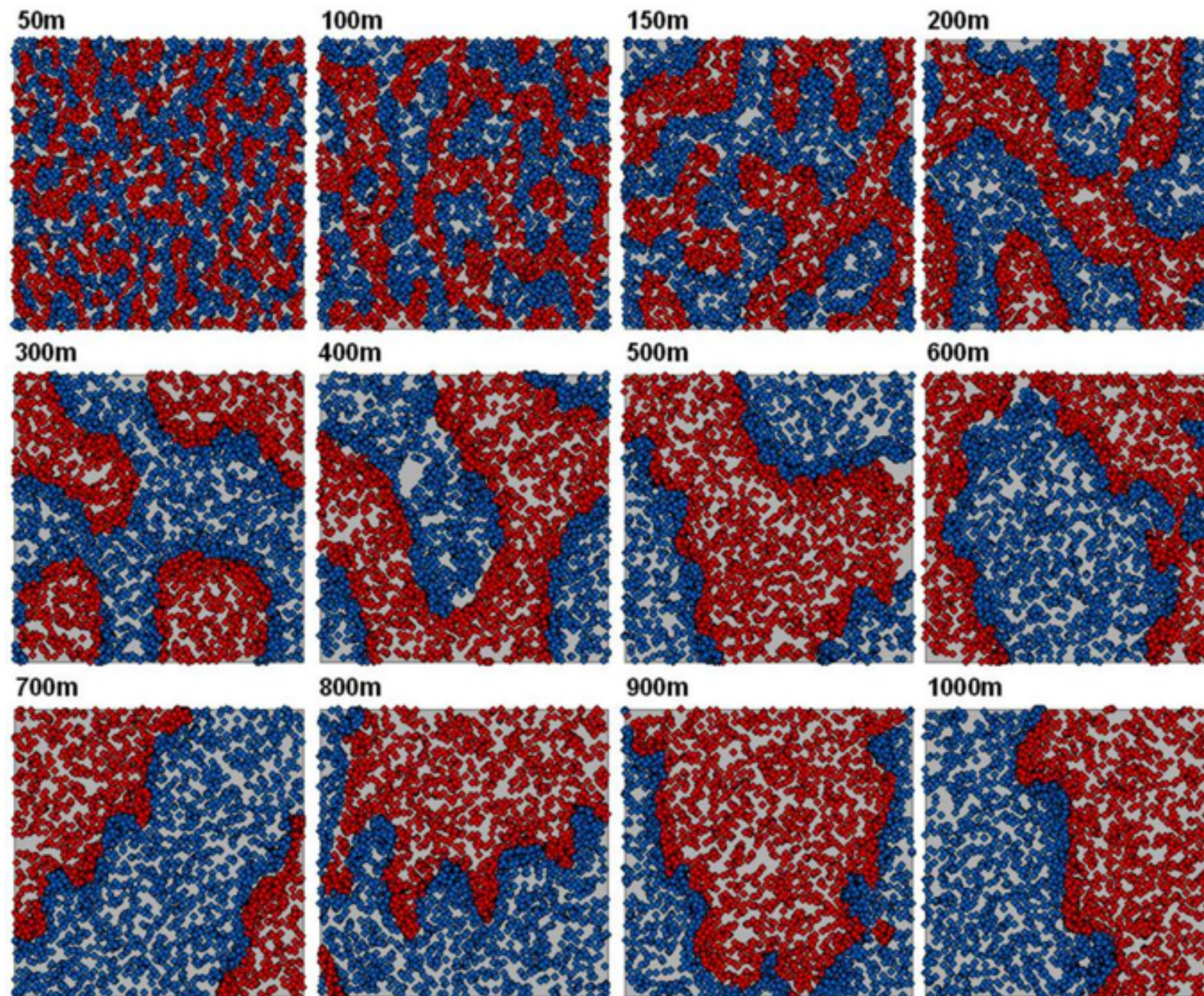


Örnekler

Game of Life



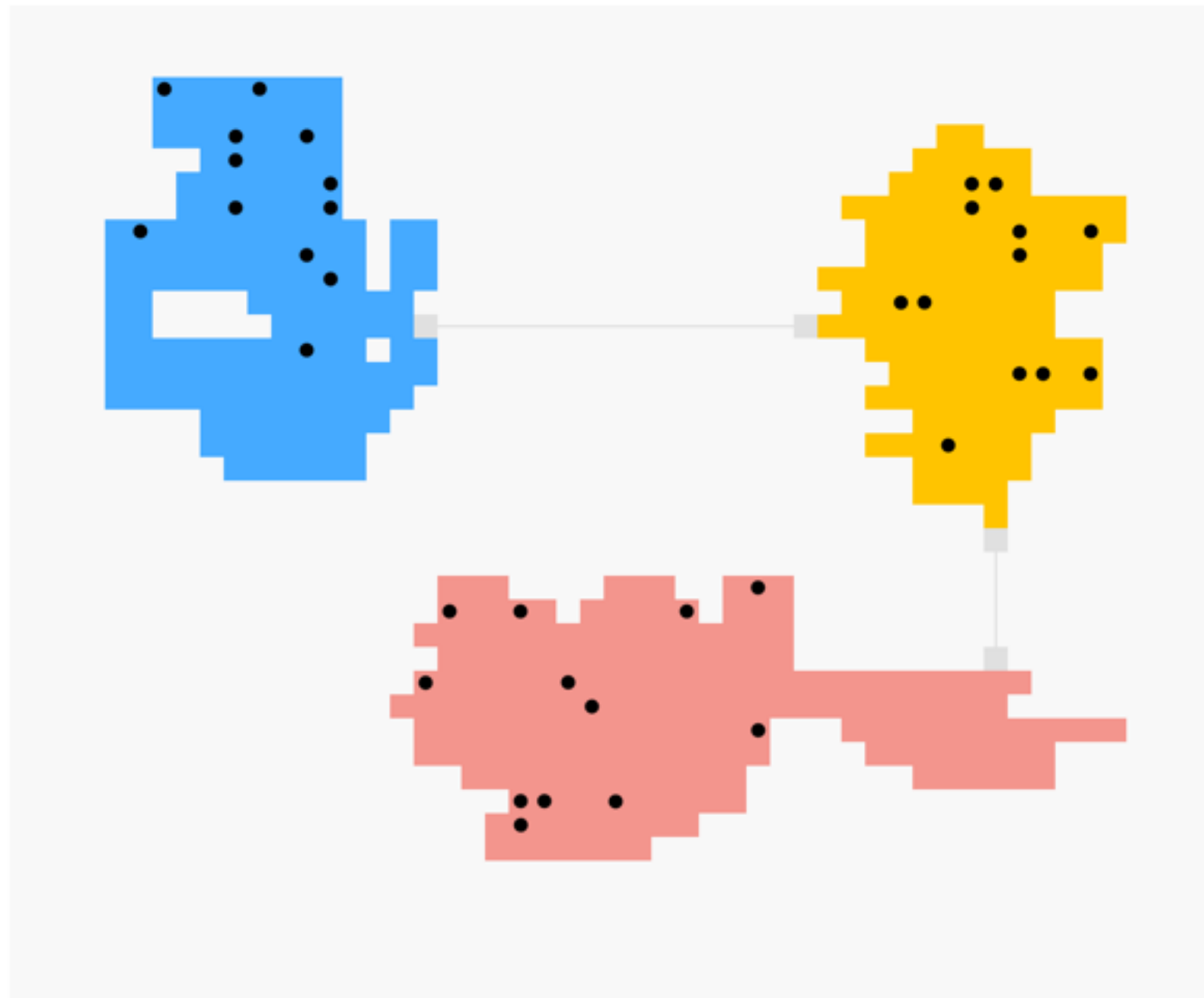
Segregation Model



Language Evolution Simulation

Kurallar

- Model adalardan oluşacak
- Her adada agent'lar olacak
- Her agent'ın bir kelime dağarcığı olacak.
- Başlangıç olarak agent'ların kelime dağarcığı tek bir kelime.
- Agent başka bir agent ile karşılaştığında konuşacak.
- Karşıdaki agent kelimeyi bilmiyor ise öğrenecek.
- Kelime aktarılırken küçük bir ihtimalle mutasyona uğrayacak.
- Agent artık mutasyona uğramış kelimeyi kullanacak.
- Agent'lar köprüler üzerinden başka adaları ziyaret edebilecek.



Island A

Most used word
zelere

Island B

Most used word
icivö | icibö

Island C

Most used word
lulere

Event Log

irütarü derived from eretere
 eseveve derived from eretere
 erezere compound with lölere and lilire
 ucaba derived from acaba
 doföra derived from defere
 sumere derived from lulere
 hudere derived from hucere
 zeliri derived from zolori
 epeğege derived from ereğere
 tudefe derived from lulere
 kılale derived from zılare
 acağa derived from acaba
 zıharü derived from zılarü
 afaka derived from acaba
 orılorı compound with sulorı and tefere
 ğejeve derived from zelere
 lilere derived from lolere
 kekece derived from zelere
 beşere derived from belere
 acibu derived from ucobı
 acaka derived from acaba
 zılare derived from zılarü
 abakaba compound with acaba and acaba
 ökubo derived from acaba
 defere derived from zelere
 zebeve derived from zelege
 lölıra derived from lulere
 zılagü derived from zılarü
 lölese derived from lölere
 ucube derived from ucobı
 sulorı derived from zulorı
 lilire derived from lulere
 anaşaza derived from abazaba
 ökobı derived from acaba

fakat

3416



Cool language evolution simulator using agent-based modeling

(fatiharikli.github.io)

submitted 1 month ago by [sheldonpooper](#)

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[-] [Lothoran](#) 313 points 1 month ago

This is so zelere, or is it bodago?
It's hard keeping up.

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[-] [bolderbast](#) 214 points 1 month ago

Go back to your island you lölero.

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[-] [Isagoge](#) 88 points 1 month ago

A lölero is a swagger entitled to the right of shitposting.

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[-] [AsimovsMachine](#) 132 points 1 month ago*

This should be accepted as a new word on reddit.

One day there will be an [/r/OutOfTheLoop](#) Thread about the word "lölero". And people will link this thread.

We will be proud. We will be lölero.

Edit: There is [/r/lolero](#)

[permalink](#) [embed](#) [save](#) [parent](#) [report](#) [give gold](#) [reply](#)

[-] [Goatius](#) 53 points 1 month ago

"lol" - Downvoted in classic reddit fashion

"lölero" - Upvoted in respect

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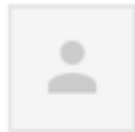
[-] [gorat](#) 4 points 1 month ago

LÖL = LOO ... OOOL (infinite lol)

Congratulations on Starting Your First Religion



Inbox x




Andrew Lowe <andrewloweb@gmail.com>

to me ▾



<http://www.reddit.com/r/lolero>




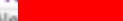
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promoted by redditads-house
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↑ ↓  **I'm also working on an Lolero Anthem: Hail to the Lolero**
submitted 1 month ago by neoberg  - announcement
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↑ ↓  **TRANSLATIONS NEEDED FOR THE DICTIONARY** (self.lolero)
submitted 1 month ago * by DaDerpyDude  - announcement
12 comments share save hide report

↑ ↓  **Lölero** (self.lolero)
submitted 7 days ago by Not_Bull_Crap
4 comments share save hide report

↑ ↓  **ababababacababa zeureure**
submitted 19 days ago by BKBlox  - announcement
2 comments share save hide report

↑ ↓  **We are all lölero on this lölero**
submitted 1 month ago by droomph  - announcement
2 comments share save hide report

↑ ↓  **Lölero Prophecy** (self.lolero)
submitted 1 month ago by Wakka2462
3 comments share save hide report

↑ ↓  **Icobu zefeke ihaga** (i.redd.it)
submitted 1 month ago by Ugitare_Lolero
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↑ ↓  **Should we make a Lolerocoin?** (self.lolero)
submitted 1 month ago by juushii  - announcement
2 comments share save hide report

↑ ↓  **Nörmiero** (reddit.com)
submitted 1 month ago by Ugitare_Lolero
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↑ ↓  **Münaşa lölero... helela ilitun?** (i.redd.it/uploads.com)



WORDS AND SHIT

"işimit "lölero", kolsikut?" = "The Hell's a 'lölero'?"

Literally- What's "lölero", Hell?

İşim- What (In the other islands' dialect See grammar, no. 2)

İt- "is" suffix

Lölero- lölero

Kolsikut- Hell (etymology – kol sikut "serious place")

, mu kolı?! = Seriously, what the f**k's a "lölero"?!

What's "lölero", very seriously?!

See grammar, no. 2)

x

ölero

currently the language has no relatives outside of the islands, not related to spanish "Muy" or something)

us

I- Like -ly in english, denotes the way something is done

↑ ↓  **"Elele Falero," Lölero folk song.** (self.lolero)
submitted 1 month ago * by Mind-Body_Duelist 

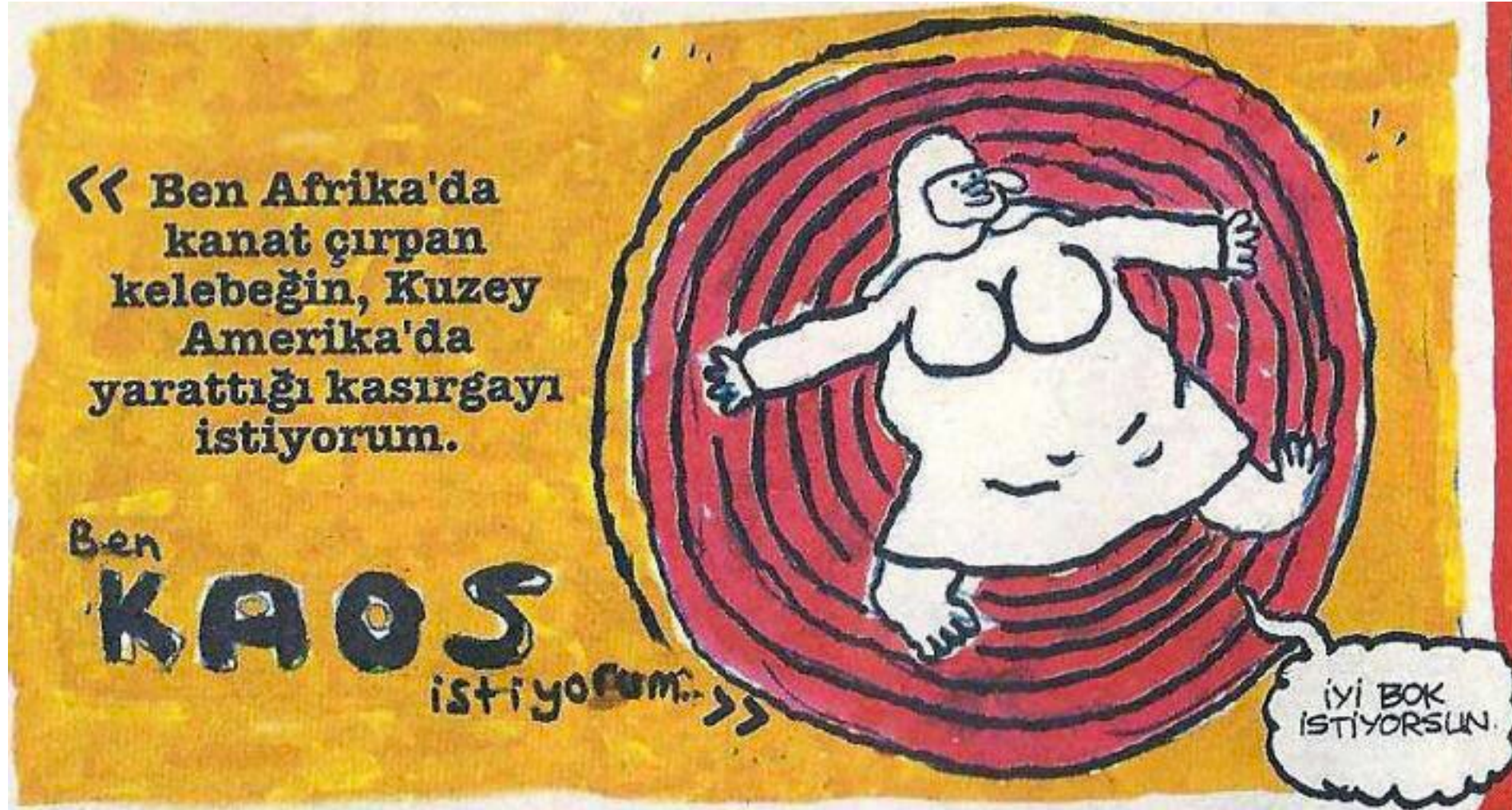
This is a traditional *lölero* song describing a long-standing cultural tradition, the *elele falero*. The *elele falero* is a traditional dance in which an "authentic individual" (*dupege*) rubs fish scales over their body.

<http://vocaroo.com/i/s11aGv6sdb2Q>

Lyrics:

Zelere, beseve - örövörö.
Elele lölero.
Uroro dupege,
Akaha lulere,
Akaha dupege, akaha lulere.
Tuhile lülera
Tuhile lülera
Elele falero, elele icöbi,





Sunumdaki karikatürler Umut Sarıkaya'nındır.