

# murderer.js

Insights into a social interaction game backed by a node.js webserver

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- 1 The game
- 2 History
- 3 Technology in use
- 4 Sample setup
- 5 Plans and Visions

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- groups of  $\sim 15$  to  $\sim 200$  participants
- a few days up to weeks
- perform individual murder contracts
  - by object handovers
  - in multiple rings in parallel
  - and/or in a single ring in series
- don't have witnesses
- full rules on <https://www.frisssdiegurke.com/>

<https://www.frissdiegurke.com/contracts>

murderer.js - Node.js implementation of 'Mörderspiel'

## WANTED

ROOT


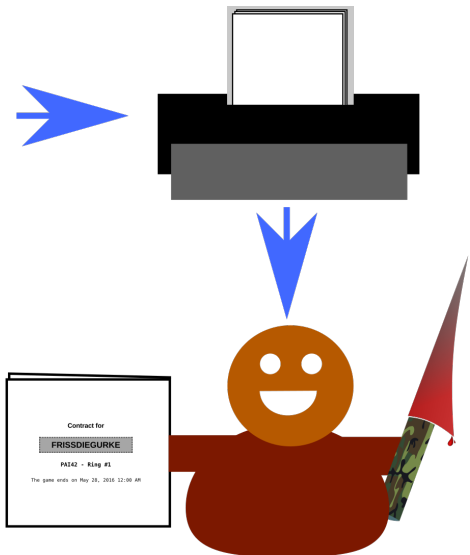


TEXT

PA142 - Ring #1      Taken to hand over your murderer  
† C112ED86 †

Contract for  
**FRISSDIEGURKE**

PA142 - Ring #1  
The game ends on May 28, 2016 12:00 AM

- multikill
- one at a time
- active witness
- sanctuaries
  - as declared by authorities
  - rest rooms

Determine the winner:

- 1 most fulfilled contracts
  - not entered in time  $\Rightarrow$  does not count
- 2 fewest remaining lives
- 3 most upvotes on cause of death notes
- 4 tie

There is no such thing as a 2nd winner.

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- freely adapted from "Mörderspiel": [KIF-Wiki](#), [spielewiki.org](#)
- made for the OPhase 2015

- initial working instance within two weeks
  - created by Asterix and me
- few features, just one game
  - game creation = game start
  - registration = join games created later on

- re-written database structure
  - multiple games support
  - not every user takes place in every game
- re-written layout
- switch from MIT to GPLv3
- research laws and stuff
  - server-side rendered pages
  - imprint
  - privacy policy
    - store IP addresses for comments
  - EU cookie law

Diese Website verwendet Cookies zum Speichern personenbezogener Daten (zum Beispiel Spracheinstellung). Weitere Details können Sie in unserer [Cookie-Richtlinie](#) nachlesen.

- ✓ Ich stimme der Verwendung von Cookies zu.
- ✗ Ich lehne die Verwendung von Cookies ab.

## Just because I want users to be able to save the selected language.

- applies to local storage and similar technologies too
- delay saving any cookies/localstorage until any option is selected
- dedicated page containing detailed information on cookie usage

*The cookie law requires websites to gain consent from visitors to store or receive any information on a computer or any other web connected devices (e.g. smartphone or tablet).[1]*

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- source code [on GitHub](#)
- node.js - widely used javascript server
  - ECMAScript 5
- grunt (with CoffeeScript)
- mongodb - NoSQL database
- angular.js - MVW client-side framework
- font-awesome - Web oriented icon set
- socket.io - bidirectional connection client ↔ server
- bunyan - structured logging

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- debian hosted on DigitalOcean ([referral](#))
- murderer.js
- nginx
  - HTTP/2
    - binary, rather than text, protocol [3]
    - a single, multiplexed connection per domain [3]
    - HTTP/2 is used by 7.6% of all the websites [4]
  - TLS provided by letsencrypt
  - reverse proxy, HTTP/1.1
- forever



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- angular.js 2
  - server-side rendering
  - better performance
  - better code structure
- switch programming language
  - typescript
    - transpiles into javascript
    - static typing
  - or plain ES2015 (ES6) / ES2016 / ...
    - ECMAScript is the standard implemented by JavaScript
    - beginning with ES2015, relabeled and annual release cycle
- switch task runner
  - gulp
  - no more CoffeeScript

- create a module "author"
- create a user profile view
- add some nice statistics
- ... smaller details

- fulfill JetBrains' open source license criteria
  - in active development for a minimum of 3 months
  - have an active community
  - regularly updated News on a website
  - updated builds on a regular basis
  - would save €149 (all their products) / €35 (WebStorm) annually

[2]


- allow anyone to create games on my hosted instance

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<https://www.frisssdiegurke.com>

- game "sIT2016"
- starts 2:30PM today, ends 11PM tomorrow
- 7 rings, 5 lives

Thanks for your attention!  
:-)

 <http://www.computerweekly.com/guides/How-to-comply-with-the-EU-cookie-law>

 <https://www.jetbrains.com/buy/opensource/?product=webstorm>

 <https://www.nginx.com/blog/7-tips-for-faster-http2-performance/>

 <http://w3techs.com/technologies/details/ce-http2/all/all>