



zurück zur Startseite

· Kommunikation unter Spielern

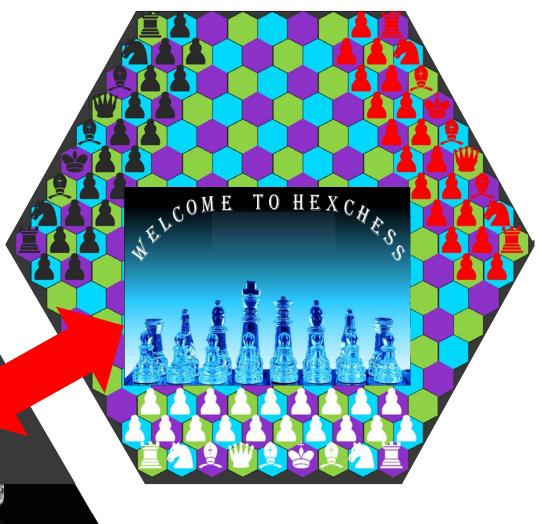
Link:

hexchess.bplaced.net



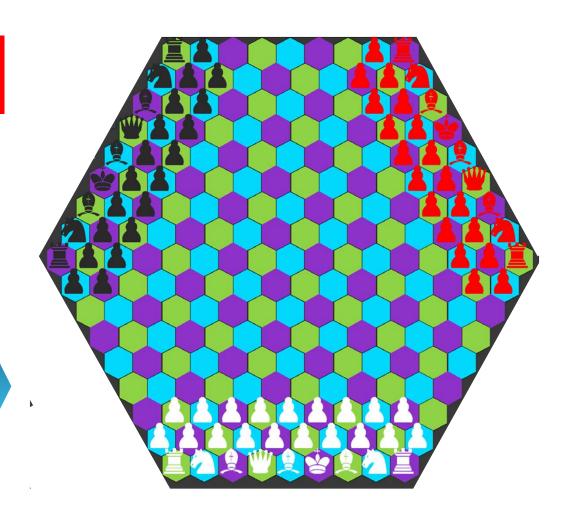
UNTERSCHIEDE





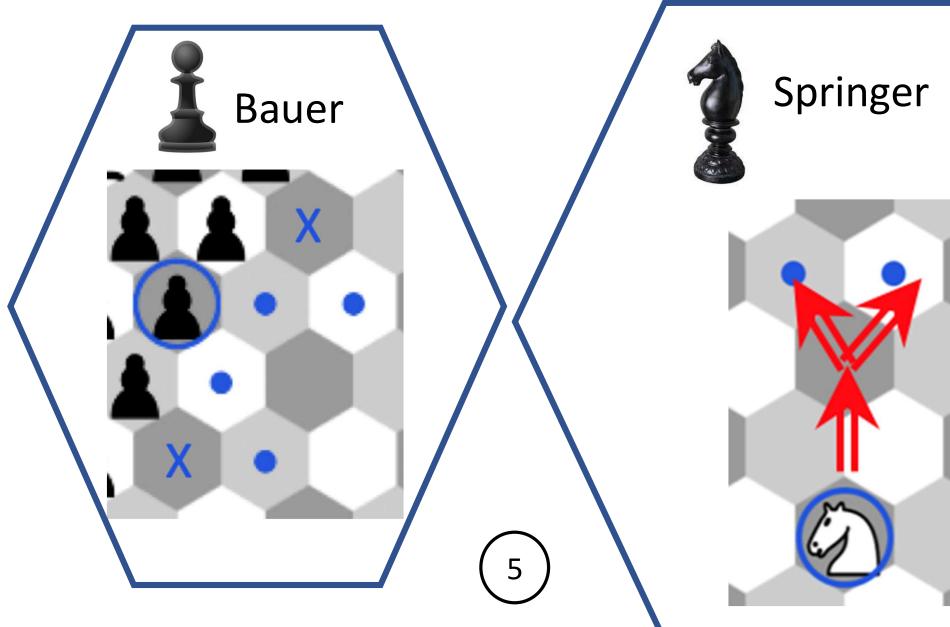
UNTERSCHIEDE

- 3 Personen
- 6-eckiges Spielfeld



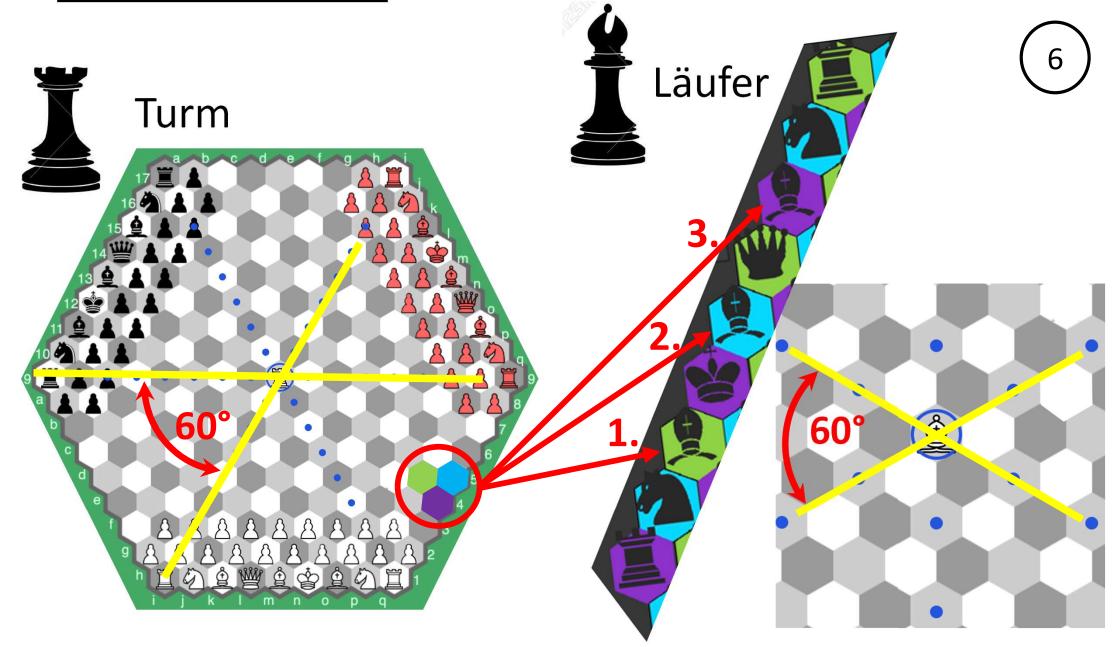
Ziel / Regeln

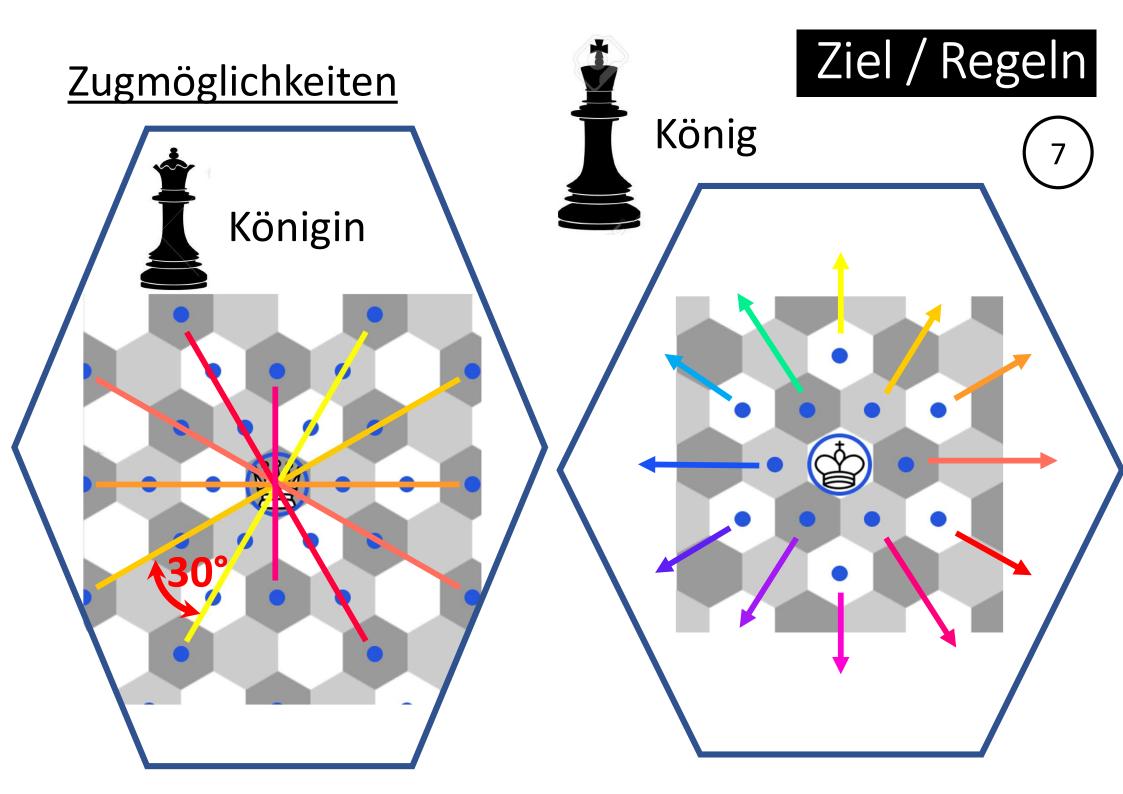
Zugmöglichkeiten

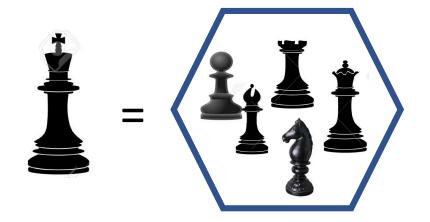


Zugmöglichkeiten

Ziel / Regeln







- - → Spieler verliert
- \rightarrow dynamisch, schneller
- Aufmerksamkeit wichtig
- unüberlegter Zug
 - → Spiel verloren

Ziel / Regeln

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Was wird gemessen?

- Code Coverage
- Metrics:
 - Anz. Zeilen Code pro Methode
 - Komplexität der Klassen
 - Anz. Kommentare pro Zeilen Code

Wie wird gemessen?

- Jacoco
- Metrics:
 - Metrics Reloaded
 - Javadoc





Resultate

Element	Missed Instructions	Cov. 0	Missed Branches	Cov.	Missed =	Cxty	Missed *	Lines	Missed 0	Methods	Missed	Classes
→ Field.new JPanel() {}		0%		0%	125	125	179	179	3	3	1	1
⊙ <u>GFX</u>		0%	=	0%	51	51	149	149	12	12	1	1
⊙ <u>Data</u>		58%		38%	168	236	161	410	2	18	0	1
⊙ Field	_	0%	=	0%	25	25	111	111	9	9	1	1
○ ClientThread	_	22%	=	18%	48	56	107	149	6	11	0	1
⊕ LobbyGUI	=	0%	1	0%	10	10	105	105	4	4	1	1
⊙ Net		50%		44%	34	59	90	178	9	20	0	1
⊕ <u>Lounge</u>	=	0%		0%	5	5	47	47	4	4	1	1
⊕ EncodeNet	=	22%	=	16%	26	30	54	70	1	3	0	1
	I	0%	1	0%	11	11	41	41	5	5	1	1
○ Client	=	52%	1	43%	12	23	45	92	2	9	0	1
⊙ <u>Tools</u>	=	37%	E	29%	21	30	49	77	3	6	0	1
⊕ Main	1	0%	1	0%	10	10	31	31	3	3	1	1
⊕ <u>Lobby</u>	=	64%	1	44%	10	17	22	56	4	8	0	1
	1	51%	1	37%	7	14	24	53	1	6	0	1
⊙ Chat	1	53%		0%	2	4	16	37	1	3	0	1
	1	73%	1	61%	6	12	12	38	0	3	0	1
→ ToolsGUI.new WindowAdapter() {}	1	27%	1	0%	3	4	10	11	1	2	0	1
	=	93%		0%	2	5	4	57	1	4	0	1
		0%		n/a	2	2	4	4	2	2	1	1
		0%		n/a	2	2	4	4	2	2	1	1
⊙ <u>Server</u>	1	88%		50%	1	3	5	21	0	2	0	1
	1	87%		n/a	1	6	3	15	1	6	0	1
	1	92%		n/a	0	3	2	11	0	3	0	1
⊖ Point	1	100%		n/a	0	3	0	10	0	3	0	1
Total	7'529 of 11'097	32%	879 of 1'145	23%	582	746	1'274	1'953	76	151	9	25







Resultate

Data

Element	Missed Instructions	Cov. \$	Missed Branches +	Cov. \$	Missed \$	Cxty \$	Missed \$	Lines	Missed +	Methods +
move(int, int, int, int, char, String)		15%		6%	76	77	73	87	0	1
moveTest(int, int, int, int, char, String)		59%		38%	61	76	38	81	0	1
 checkPawnCapturing(double, double, int, int, int, int, Point, Point, String, char) 	=	0%	1	0%	5	5	14	14	1	1
main(String[])	=	0%	1	0%	3	3	19	19	1	1
checkCheck(String, char)	_	81%		73%	8	18	10	42	0	1
changeColor()	=	83%	=	55%	6	10	4	21	0	1
 checkLimitedMove(double, double, int, int, int, int, Point, Point, String, char) 	=	87%	1	50%	3	4	2	12	0	1
 checkPawnMove(double, int, int, int, int, String, char) 		90%		50%	1	2	1	9	0	1
<u>checkArc30(double)</u>	I	96%	1	83%	1	4	0	2	0	1
Data(String, Lobby)		100%	=	100%	0	11	0	61	0	1
 checkMove(double, double, int, int, int, int, Point, Point, String, char) 	_	100%	=	92%	1	8	0	25	0	1
getFields(Point)	=	100%	1	100%	0	2	0	8	0	1
getCoordinates(int, int)	=	100%	1	100%	0	2	0	6	0	1
sendField(String, int, int, int)		100%	1	100%	0	3	0	9	0	1
clearBoard(char)	1	100%	1	100%	0	4	0	5	0	1
<u>checkArc60(double)</u>	1	100%	II.	62%	3	5	0	2	0	1
feedback(double, String, String)	1	100%		n/a	0	1	0	4	0	1
• static {}	1	100%		n/a	0	1	0	3	0	1
Total	1'179 of 2'858	58%	260 of 421	38%	168	236	161	410	2	18



Resultate

class	▼ OCavg	OCmax 0	WMC
ch.unibas.dmi.dbis.cs108.project.EncodeNet	28.00	28	28
ch.unibas.dmi.dbis.cs108.project.Data	8.06	34	137
ch.unibas.dmi.dbis.cs108.project.Tools	7.25	19	29
ch.unibas.dmi.dbis.cs108.project.Main	7.00	7	
ch.unibas.dmi.dbis.cs108.project.Field	6.78	38	61
ch.unibas.dmi.dbis.cs108.project.ClientThread	5.71	21	40
ch.unibas.dmi.dbis.cs108.project.GFX	4.50	19	45
ch.unibas.dmi.dbis.cs108.project.ServerThreac	4.00	7	
ch.unibas.dmi.dbis.cs108.project.Client	3.29	8	23
ch.unibas.dmi.dbis.cs108.project.Net	3.17	7	57
ch.unibas.dmi.dbis.cs108.project.Server	3.00	3	
ch.unibas.dmi.dbis.cs108.project.HighScore	2.60	5	13
ch.unibas.dmi.dbis.cs108.project.LobbyGUI	2.50	6	10
ch.unibas.dmi.dbis.cs108.project.Lobby	2.29	7	16
ch.unibas.dmi.dbis.cs108.project.ManualGUI	2.25	4	
ch.unibas.dmi.dbis.cs108.project.Chat	1.33	2	4
ch.unibas.dmi.dbis.cs108.project.Lounge	1.25	2	5
ch.unibas.dmi.dbis.cs108.project.StartMenu	1.25	2	5
ch.unibas.dmi.dbis.cs108.project.ToolsGUI	1.25		10
ch.unibas.dmi.dbis.cs108.tests.NetTest	1.12	2	
ch.unibas.dmi.dbis.cs108.project.CallClient	1.00	1	
ch.unibas.dmi.dbis.cs108.project.CallServer	1.00	1	
ch.unibas.dmi.dbis.cs108.project.Point	1.00		
ch.unibas.dmi.dbis.cs108.tests.DataTest	1.00	1	
Total			531
Average	3.90	9.50	22.12

class	CLOC	JLOC	▼ LOC
ch.unibas.dmi.dbis.cs108.project.Data	184	159	836
ch.unibas.dmi.dbis.cs108.project.Field	80	48	467
ch.unibas.dmi.dbis.cs108.project.GFX	127	107	358
ch.unibas.dmi.dbis.cs108.project.Net	123	89	324
ch.unibas.dmi.dbis.cs108.project.ClientThread	95	35	245
ch.unibas.dmi.dbis.cs108.project.Client	85	48	193
ch.unibas.dmi.dbis.cs108.project.LobbyGUI	60	25	169
ch.unibas.dmi.dbis.cs108.project.Tools	47	36	155
ch.unibas.dmi.dbis.cs108.project.EncodeNet	45	11	150
ch.unibas.dmi.dbis.cs108.project.Lobby	37	27	109
ch.unibas.dmi.dbis.cs108.project.HighScore	49	27	108
ch.unibas.dmi.dbis.cs108.project.StartMenu	42	25	102
ch.unibas.dmi.dbis.cs108.project.Lounge	40	25	96
ch.unibas.dmi.dbis.cs108.project.ToolsGUI	41	38	96
ch.unibas.dmi.dbis.cs108.project.Chat	32	19	73
ch.unibas.dmi.dbis.cs108.project.ServerThread	21	14	67
ch.unibas.dmi.dbis.cs108.project.ManualGUI	17	12	65
ch.unibas.dmi.dbis.cs108.project.Main	16	9	51
ch.unibas.dmi.dbis.cs108.project.Point	22	22	42
ch.unibas.dmi.dbis.cs108.project.Server	16	14	42
ch.unibas.dmi.dbis.cs108.project.CallClient	3		9
ch.unibas.dmi.dbis.cs108.project.CallServer	3	3	9
Total	1′185	796	3'766
Average	53.86	36.18	171.18





Diskussion

Mit Unittests zufrieden (Essentielles)

• Nice to have: mehr Javadoc -> unterschiedliche Lesbarkeit

• Qualität litt aufgrund des Zeitdrucks.



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TECHNOLOGY

Logo:

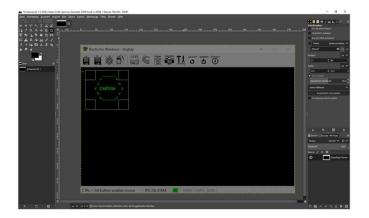


- Netwide Assembler
- Bochs
- HxD
- GIMP

Libraries:



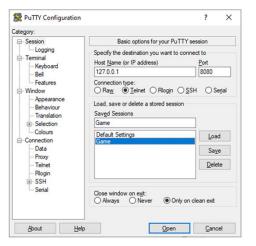
- Apache Common
- JUnit, Jacoco, Log4J

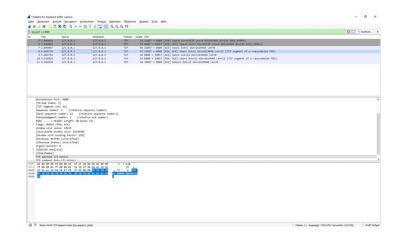


Kommunikation:

- Wireshark
- Putty







WE ARE SMARTER NOW



- Struktur des Programmes
- Kommentare
- Organisation



- Unit-Tests, QA, Organisation
- GUI, Libraries



