

(2) Data Entry (fitted to observations)
(read from Trendline)

Reference day 1	01.04.2020
Number of infected people	412
Reference day 2	03.04.2020
Number of infected people	452
Reference day 3	05.04.2020
Number of infected people	490

Commentary: The data entry in this field is a critical step. Reading values from the trend line may not be easy. The trendline is used to level out variations in the reporting; example, cases reported today should have have been reported yesterday. The observed values are real data from a period when strong growth was broken.

Area f

Zuwachs 1	Rate of incr 40
Zuwachs 2	Rate of incr 38
Zuwachs 3	Rate of incr 78

Averaged Rate (geom. a

(3a) Tuned Average f

The change will be added (+) or :
 Notice the effect in

(1) Observed Data

Date	<i>Recovered</i>	actual Ill	<i>cummulated infected</i>
12.03.2020	0	15	15
14.03.2020	0	42	42
16.03.2020	0	80	80
18.03.2020	0	134	134
20.03.2020	0	179	179
22.03.2020	11	208	219
24.03.2020	22	232	254
26.03.2020	40	275	315
28.03.2020	85	271	356
30.03.2020	115	258	373
01.04.2020	141	260	401
02.04.2020	161	271	432
03.04.2020	177	269	446
04.04.2020	212	258	470
05.04.2020	234	247	481

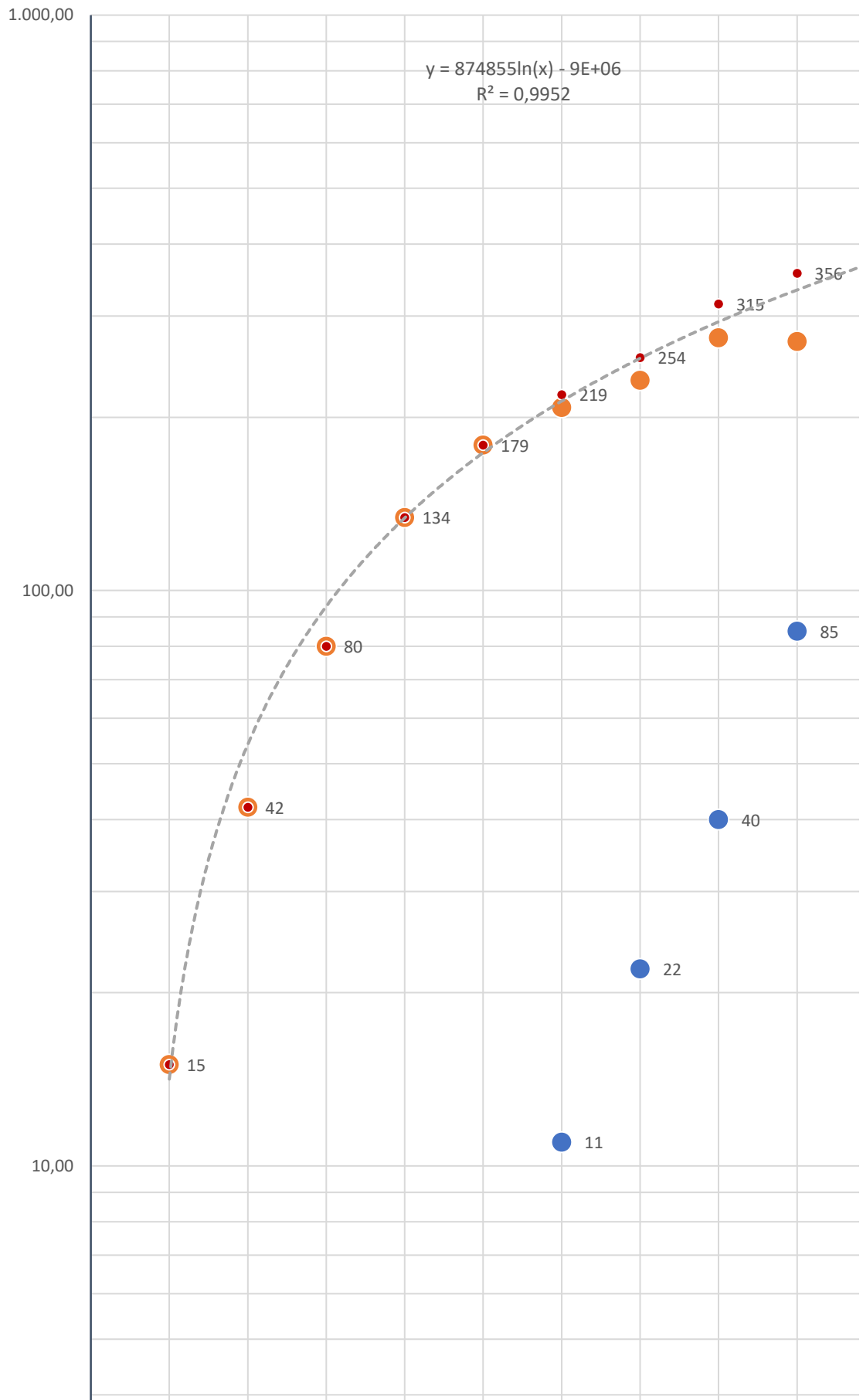
Reference date optional calculated obligatory

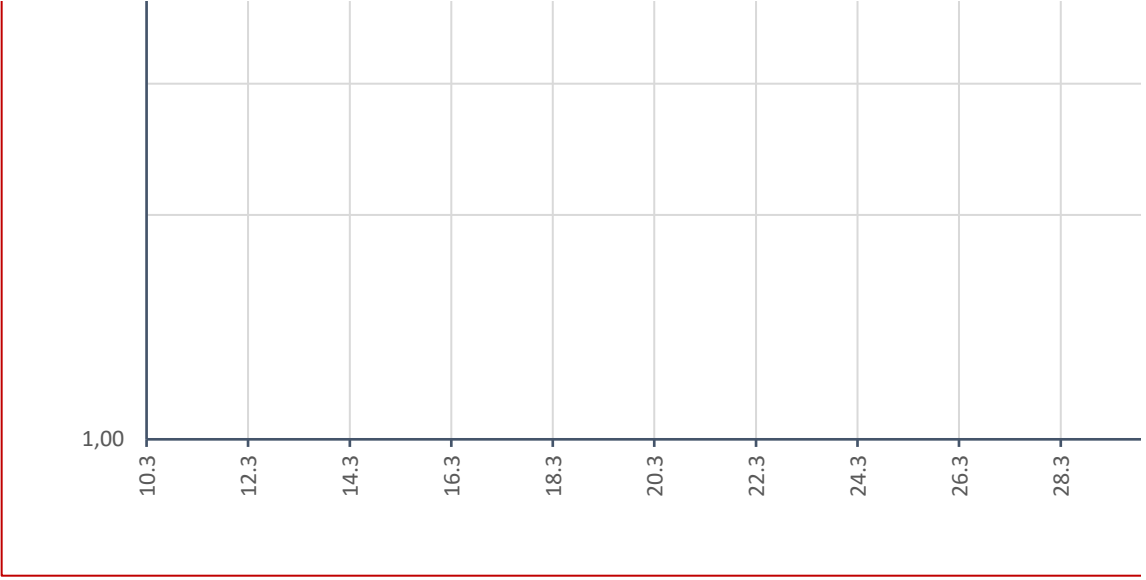
Data entries: reference date, recovered & cummulated infected

Data source: <https://www.kreis-guetersloh.de/aktuelles/corona/>

- 1.
 - 2.
 - 3.
 - 4.
 - 5.
 - 6.
 - 7.
- Simulated Nu
- 467
- 484
- Sum:
- Either f*

(I) Observed Numbers for 'your place' (
-Trendline-





ations and (2) to extrapolate development of the cumulated number of infected persons.
 'growth'. The author did use the tool for two weeks before sharing it. Any use is on 'user's intelligence

or Calculations 1: Multiplier (do not touch)			Extrapolation from "Re	
		Multiplier		
ease 1	5%	1,05	for observed rate of increase 1:	Multiplier Number of infected people
ease 2	4%	1,04	for observed rate of increase 2:	Multiplier Number of infected people
ease 3	4%	1,04	for observed rate of increase 3:	Multiplier Number of infected people
verage)		1,04	for averaged rate of increase 4:	Multiplier Number of infected people
Rate		1,034	for adjusted averaged rate of	Multiplier Number of infected people Deviation from "4"
-0,010 subtracted (-) from the average rate. line "Deviation from 4"				

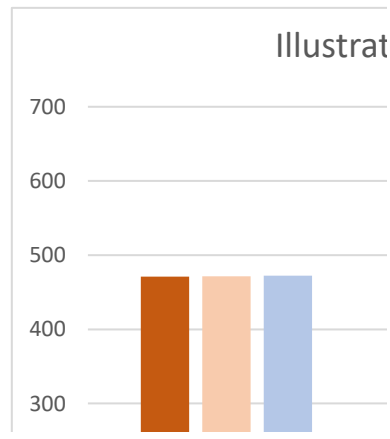
Handling of the sheet:

Only values in "yellow fields" may be changed
 Enter 'reference date' (example: 5th April)
 Enter the observed data (at least 'cumulated infected')
 pay attention to the dates in colum 'Date'
 Go to figure "I" and look at the trendline
 Note the values for the trendline for "Reference day 1 ,2, 3"
 Enter the values in the yellow fields "Number of infected people"
 Try "(3) Tuning"
 change value in box :
 to fit below "(3b) Tuning"
 you may use function 'goal seeker'

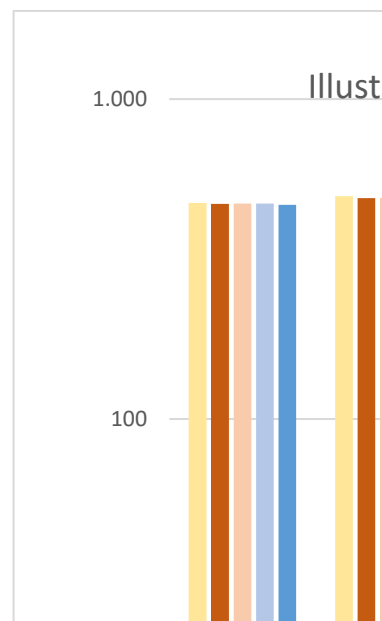
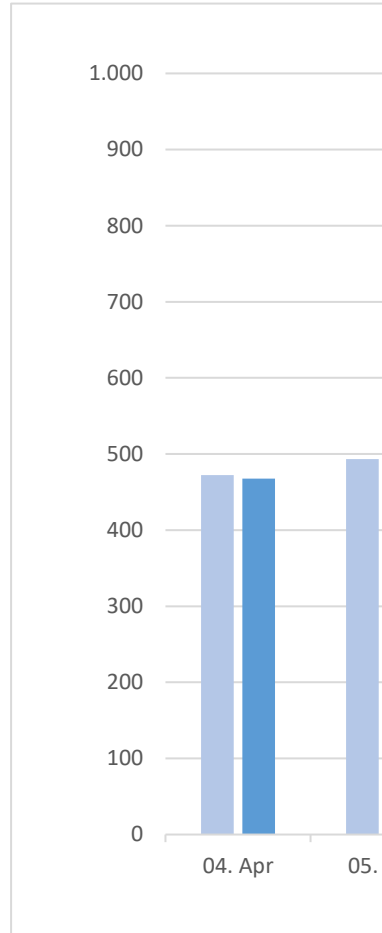
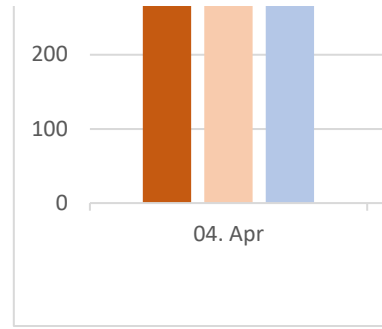
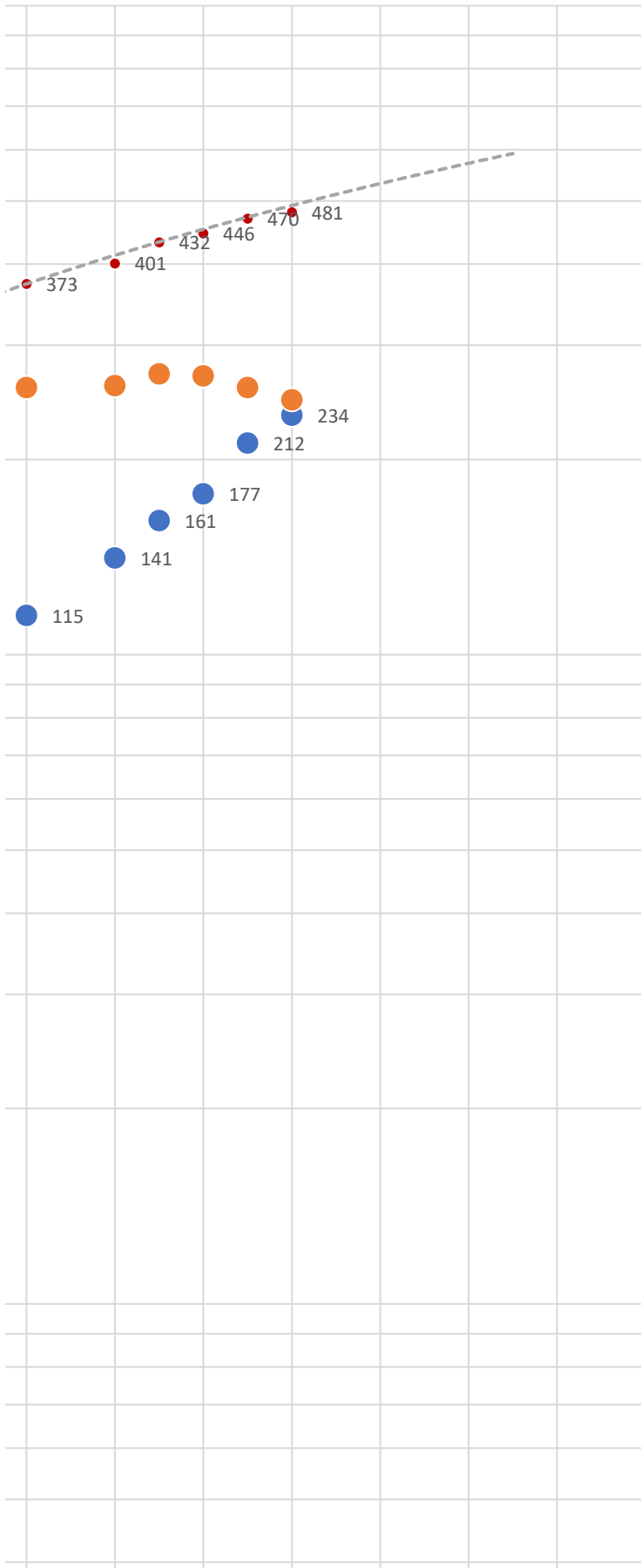
Data field for figures	
	Datum
Rate of increase 1	
Rate of increase 2	
Rate of increase 3	
Averaged rate of increase 4	
Tuned Average Rate	
Relative increase compared to 'start date'	

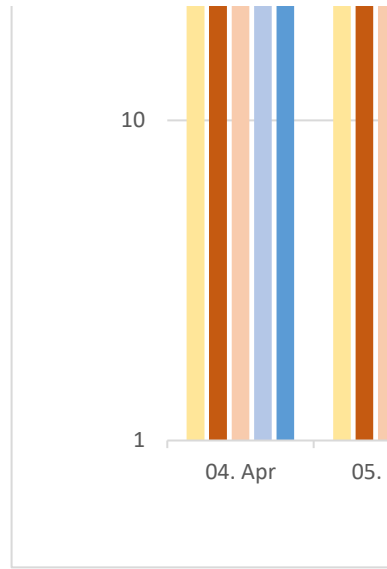
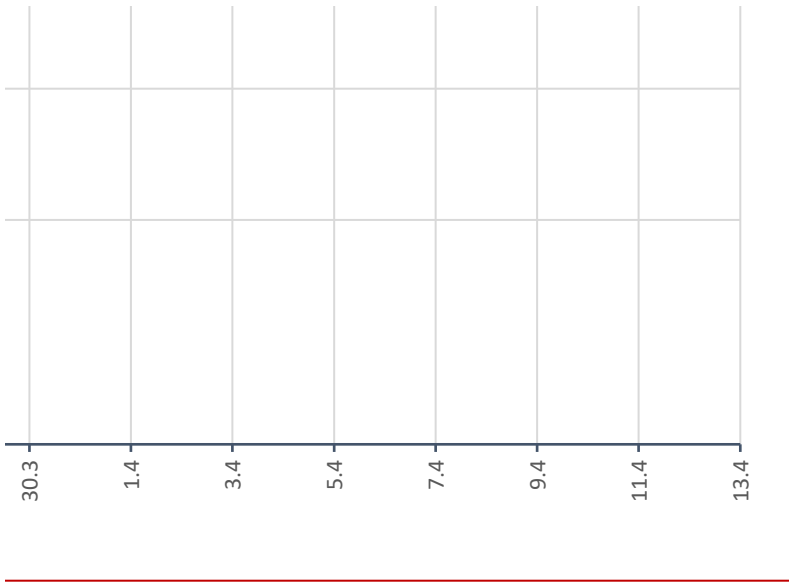
(3) Tuning	
Numbers	
Deviation from observed numbers	
3	
-3	
0	

fit for one of the two dates or the sum; seek "zero"



(dots)





and risk'.

Area for Calculations 2: daily values

reference day 2 + 1 day" onward:

(do not touch)

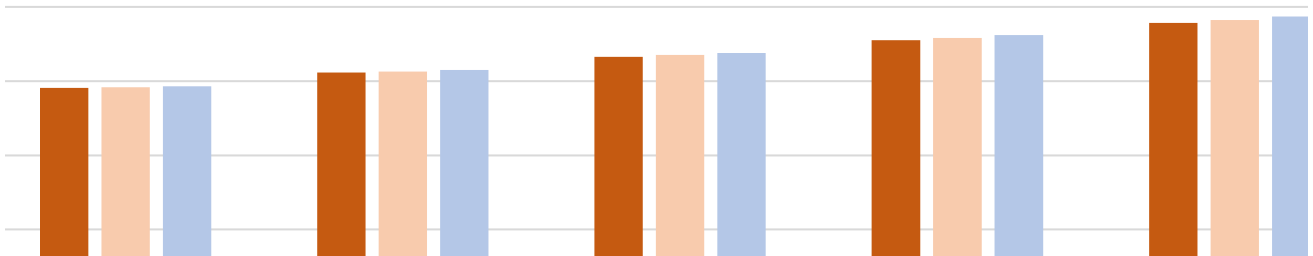
04. Apr	05. Apr	06. Apr	07. Apr	08. Apr	09. Apr	10. Apr	11. Apr	12. Apr	13. Apr	14. Apr
1	2	3	4	5	6	7	8	9	10	11
1,0	1,1	1,2	1,2	1,3	1,3	1,4	1,5	1,5	1,6	1,7
474	497	521	546	573	601	630	660	692	726	761
1,0	1,1	1,1	1,2	1,2	1,3	1,3	1,4	1,4	1,5	1,6
471	491	511	533	555	579	603	628	655	682	711
1,0	1,1	1,1	1,2	1,2	1,3	1,3	1,4	1,5	1,5	1,6
472	492	513	535	558	582	607	634	661	690	719
1,0	1,1	1,1	1,2	1,2	1,3	1,4	1,4	1,5	1,5	1,6
472	493	515	538	562	587	613	641	669	699	730
1,0	1,1	1,1	1,1	1,2	1,2	1,3	1,3	1,4	1,4	1,4
467	484	500	517	535	553	572	592	612	633	655
-5	-10	-15	-21	-27	-34	-41	-49	-57	-66	-75

(Number of infected people

(do not touch)

04. Apr	05. Apr	06. Apr	07. Apr	08. Apr	09. Apr	10. Apr	11. Apr	12. Apr	13. Apr	14. Apr
474	497	521	546	573	601	630	660	692	726	761
471	491	511	533	555	579	603	628	655	682	711
472	492	513	535	558	582	607	634	661	690	719
472	493	515	538	562	587	613	641	669	699	730
467	484	500	517	535	553	572	592	612	633	655
1,000	1,034	1,070	1,106	1,144	1,183	1,224	1,266	1,309	1,354	1,401

tion of exponential growth over 8 days for three rates



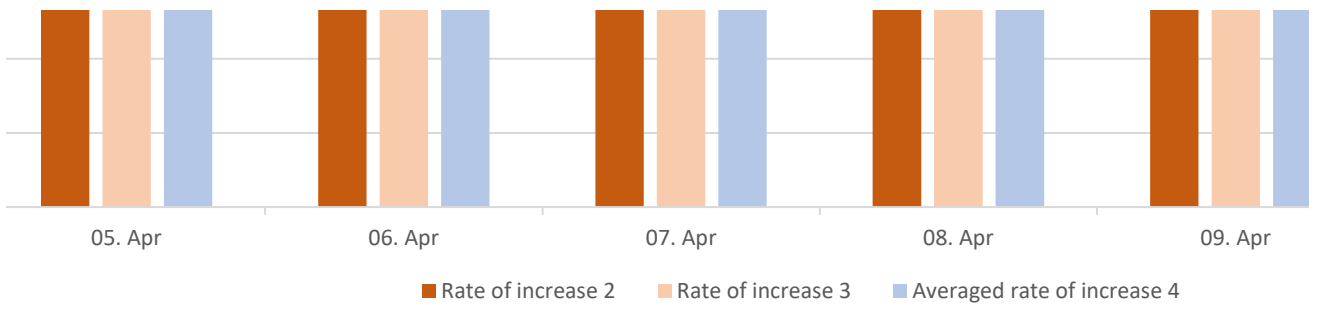
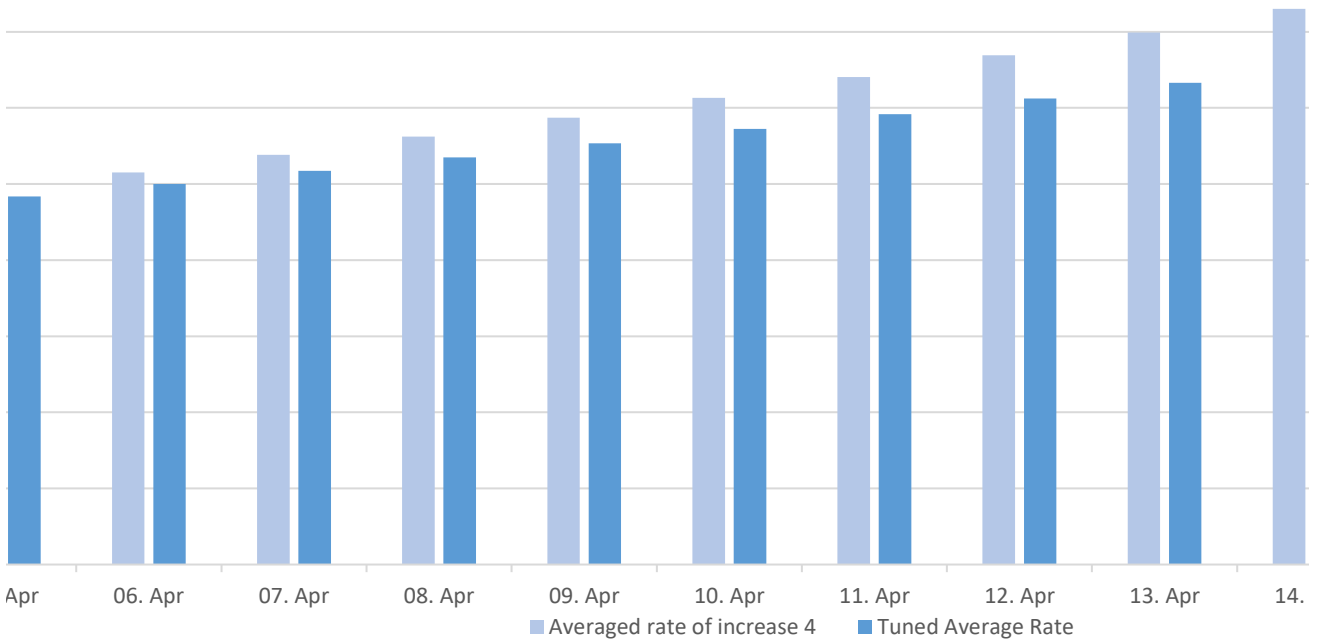
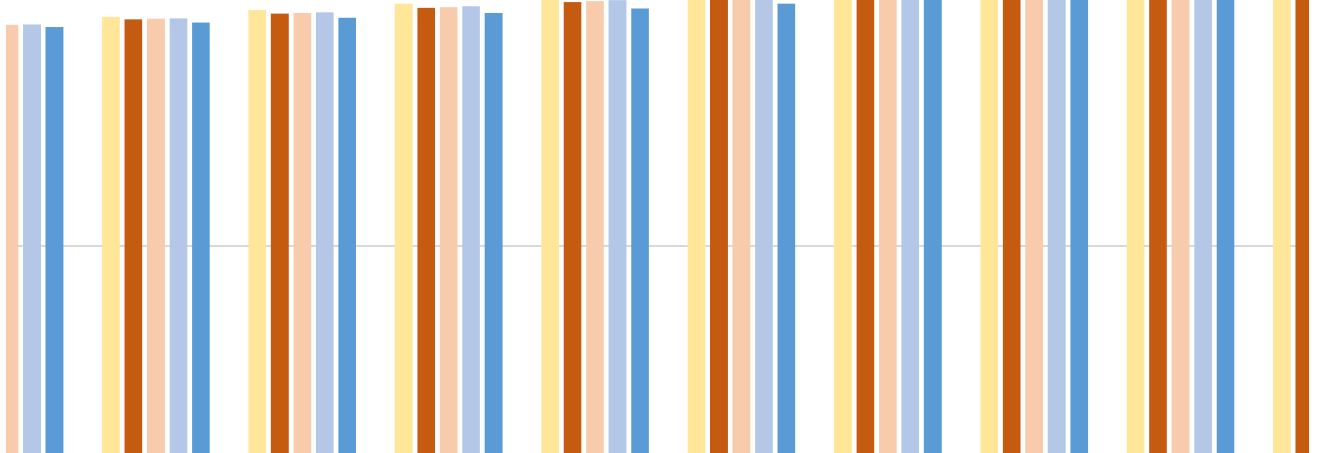
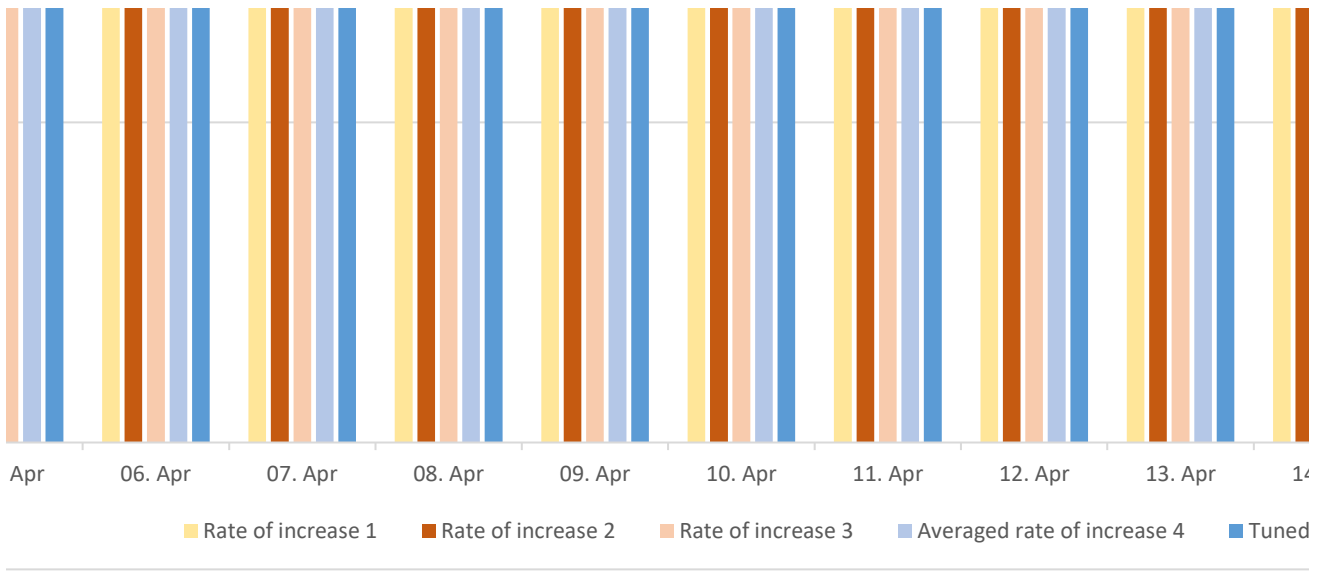


Illustration of exponentielle growth over 14 days for two growth rates (shows



ration of exponentielle growth ovre 14 days for five growth rates (Logaritmische scaling, th corresponds to "10 x more")

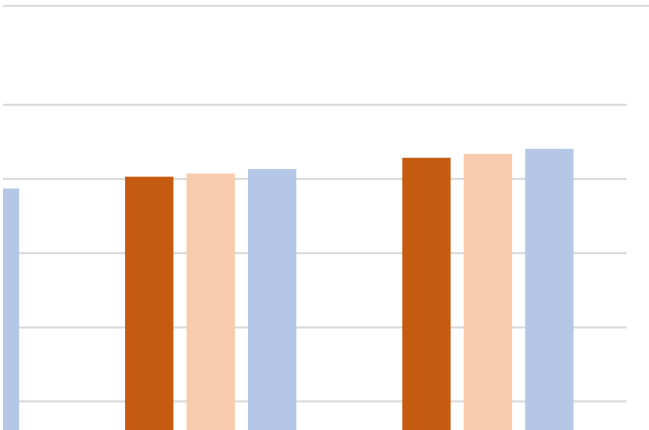


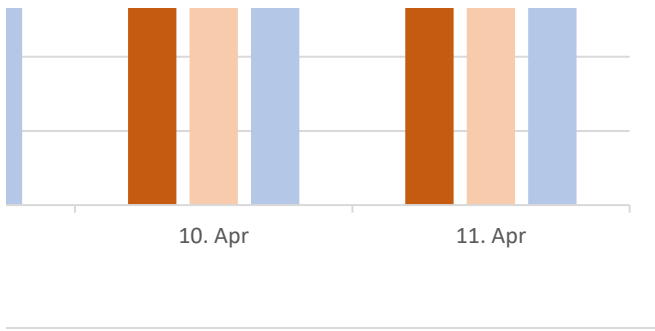




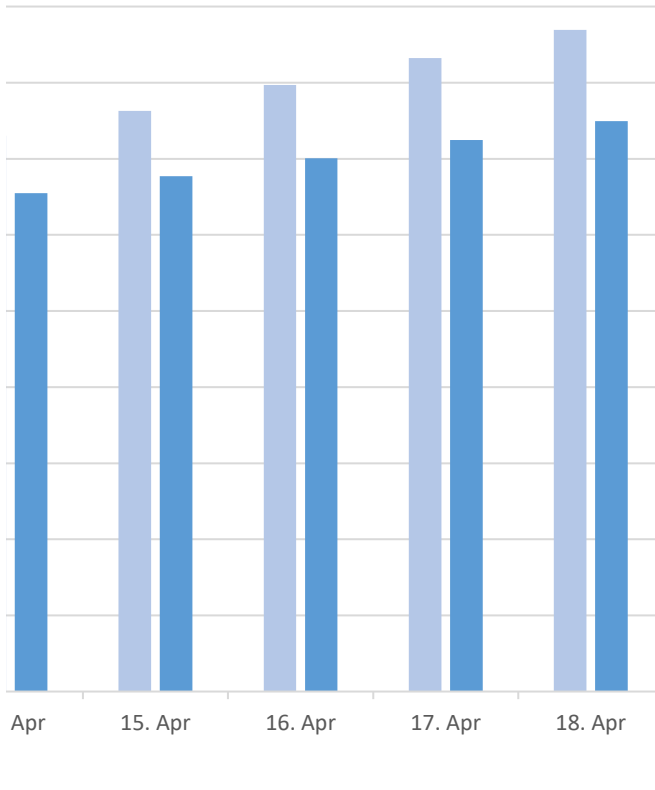
15. Apr	16. Apr	17. Apr	18. Apr
12	13	14	15
1,8	1,9	1,9	2,0
798	837	878	920
1,6	1,7	1,8	1,9
741	772	804	838
1,7	1,7	1,8	1,9
750	783	816	852
1,7	1,8	1,8	1,9
763	797	832	869
1,5	1,5	1,6	1,7
677	700	724	749
-86	-96	-108	-120

15. Apr	16. Apr	17. Apr	18. Apr
798	837	878	920
741	772	804	838
750	783	816	852
763	797	832	869
677	700	724	749
1,449	1,498	1,550	1,603





effecte of tuning)



what is each horizontal line

