

Diversifizierung Gleichgewichtung vs Ungleichgewichtung

Portfolio (5)					
Asset	W	Beitrag	R	Preis 14.11	DCA Preis
VHIO	65.5%	12.537,4 €	3.43x	0.003883 €	0.001117 €
OP	22.2%	4.503,38 €	2.89x	3.2 €	1.107 €
IMX	91.6%	9.860,31 €	3.30x	2.62 €	0.7951 €
RNDR	41.7%	13.724,38 €	5.37x	9.99 €	2.553,52 €
EGLD	13.9%	3.855,63 €	1.97x	55.58 €	28.25 €

Ser Portfolio ungleich			Ser Portfolio gleich		
16,0	0	>1000X	14,2	0	>1000X
16,0	24	100X - 1000X	16,2	23	100X - 1000X
17,0	41	40X - 100X	18,4	44	40X - 100X
19,0	30	21X - 40X	18,6	29	21X - 40X
20,0	2	0 X - 17X	21,6	3	0 X - 17X
21,0	3	17X - 21X	22,6	1	17X - 21X
21,0	Durchschnitt Ser Portfolios		23,2	Durchschnitt Ser Portfolios	
23,0			25,0		
24,0			25,2		
25,0			26,2		
26,0			26,6		
27,0			27,8		
28,0			28,0		
29,0			28,2		
30,0			28,2		
31,0			28,6		
32,0			28,6		
32,0	Sicherheit ca wie ein		29,0		
33,0	4,5 Portfolio "gleich"		29,0		
33,0			29,8		
33,0			34,2		
34,0	Performance 0,7% schlechter		36,0		
34,0			36,0		
35,0			36,4		
36,0			37,0		
37,0			37,6		
38,0			38,4		
38,0			38,4		
39,0			38,6		
39,0			39,4		
39,0			39,6		
40,0			40,2		
40,0			40,8		
41,0			41,8		
42,0			42,2		
43,0			42,4		
43,0			42,8		
43,0			43,0		
44,0			44,8		
44,0			45,0		
45,0			46,6		
46,0			48,2		
46,0			48,2		
48,0			48,4		
48,0			48,4		
50,0			48,6		
50,0			48,6		
52,0			49,2		
54,0			50,8		
54,0			51,4		
55,0			57,6		
57,0			58,6		
58,0			58,8		
59,0			59,2		
62,0			59,2		
64,0			59,4		
67,0			59,4		
67,0			59,6		
68,0			59,6		
68,0			60,4		
68,0			62,8		
69,0			63,4		
70,0			63,8		
70,0			65,2		
70,0			65,6		
77,0			70,0		
78,0			72,2		
78,0			74,0		
79,0			86,0		
91,0			87,4		
91,0			93,2		
94,0			96,6		
96,0			98,0		
97,0			99,2		
103,0			99,6		
103,0			103,4		
104,0			109,4		
111,0			110,0		
118,0			111,2		
118,0			114,6		
128,0			119,4		
134,0			124,0		
137,0			130,2		
153,0			139,2		
157,0			143,4		
157,0			167,6		
157,0			168,8		
174,0			171,4		
201,0			192,0		
215,0			201,0		
238,0			206,8		
285,0			210,2		
296,0			211,2		
310,0			229,0		
336,0			547,6		
367,0			561,6		
404,0			570,0		
709,0			592,0		

Portfolio (10)					
ETH	11.522,24 €	0.1%	35.120 €	16.880,01 €	3.711,85 €
ADA	4.288,84 €	0.0%	5.120 €	1.980,27 €	2.175,26 €
DOT	1.288,24 €	0.0%	5.000 €	1.080,00 €	1.043,24 €
ADA	632,84 €	0.0%	5.000 €	5.000 €	750,00 €
LINK	488,84 €	0.0%	5.000 €	10.00 €	720,00 €
DOT	632,24 €	0.0%	5.0 €	5.0 €	810 €
AVT	388,14 €	0.0%	0.000 €	0.00 €	288,00 €
BNB	231,44 €	0.0%	0.0 €	0.0 €	274,4 €
ST	224 €	0.0%	0.000 €	0.00 €	200 €
MLB	191,84 €	0.0%	0.000 €	0.00 €	220,24 €

10er Portfolio ungleich			10er Portfolio gleich		
15,0	0	>1000X	22,7	0	>1000X
16,0	36	100X - 1000X	26,7	34	100X - 1000X
16,0	36	40X - 100X	28,5	52	40X - 100X
17,0	23	21X - 40X	31,7	14	21X - 40X
20,0	3	0 X - 17X	32,2	0	0 X - 17X
21,0	2	17X - 21X	32,8	0	17X - 21X
24,0	Durchschnitt 10er Portfolios		32,9	Durchschnitt 10er Portfolios	
26,0	90,3		34,1	108,9	
26,0			34,6		
26,0			35,2		
27,0			35,6		
27,0			35,7		
28,0			37,3		
29,0			37,3		
29,0			40,1		
29,0			41,5		
30,0			44,2		
32,0			46,2		
32,0	Sicherheit ca wie ein		48,3		
32,0	6 Portfolio "gleich"		48,5		
33,0			49,1		
34,0			49,1		
35,0			49,3		
35,0	Performance 17% schlechter		49,5		
36,0			50,1		
36,0			51,0		
37,0			51,7		
37,0			52,2		
40,0			53,4		
40,0			53,6		
40,0			54,1		
42,0			55,1		
43,0			56,0		
43,0			57,3		
47,0			58,8		
48,0			60,2		
49,0			60,5		
49,0			61,1		
49,0			64,4		
50,0			65,2		
50,0			66,2		
53,0			66,9		
53,0			67,4		
53,0			68,0		
55,0			69,0		
55,0			70,1		
55,0			70,7		
57,0			70,9		
57,0			72,9		
58,0			74,6		
59,0			75,5		
59,0			75,6		
60,0			76,7		
62,0			76,8		
64,0			77,5		
70,0			77,6		
73,0			77,7		
76,0			79,5		
77,0			79,8		
83,0			80,1		
89,0			80,5		
92,0			80,5		
93,0			82,4		
93,0			88,3		
97,0			91,1		
100,0			96,7		
102,0			99,3		
103,0			100,6		
107,0			107,6		
109,0			111,0		
110,0			116,9		
112,0			119,5		
114,0			123,9		
116,0			125,7		
117,0			126,4		
119,0			127,9		
120,0			136,1		
121,0			136,2		
123,0			138,3		
126,0			139,7		
130,0			141,2		
131,0			141,3		
135,0			144,3		
137,0			155,6		
142,0			156,2		
145,0			166,5		
153,0			177,5		
163,0			193,4		
167,0			198,8		
171,0			270,5		
176,0			299,4		
196,0			299,6		
203,0			299,8		
228,0			313,2		
240,0			314,4		
241,0			342,6		
245,0			350,7		
257,0			350,9		
338,0			355,8		
364,0			362,8		
404,0			395,1		

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54: 818,
55: 38,
56: 53,
57: 24,
58: 54,
59: 128,
60: 399,
61: 92,
62: 8,
63: 968,
64: 51,
65: 123,
66: 16,
67: 15,
68: 0,
69: 83,
70: 25,
71: 95,
72: 65,
73: 73,
74: 78,
75: 73,
76: 225,
77: 6,
79: 16,
80: 11,
81: 97,
82: 110,
83: 22,
84: 50,
85: 0,
86: 50,
87: 29,
88: 46,
89: 23,
90: 132,
91: 40,
92: 11,
93: 629,
94: 42,
95: 214,
96: 30,
97: 19,
98: 8,
99: 7,
100: 42,
101: 36,
102: 15,
103: 35,
104: 72,
105: 86,
108: 8,
109: 406,
110: 104,
111: 50,
112: 2595,
113: 87,
114: 28,
115: 44,
116: 27,
117: 13,
119: 28,
120: 32,
121: 16,
122: 4,
123: 19,
124: 6,
125: 4,
126: 0,
127: 26,
128: 33,
129: 7,
130: 0,
131: 12,
132: 354,
133: 20,
134: 71,
135: 32,
136: 19,
137: 27,
138: 87,
139: 18,
140: 496,
141: 38,
142: 11,
143: 46,
144: 0,
145: 130,
146: 0,
147: 41,
148: 31,
149: 22,
150: 5,
151: 19,
152: 192,
153: 27,
154: 15,
155: 14,
156: 44,
157: 67,
158: 36,
159: 35,
160: 119,
161: 36,
162: 74,
163: 51,
164: 7,
165: 0,
166: 83,
167: 33,
168: 8,
169: 0,
170: 30,
171: 71,
172: 275,
173: 59,
174: 131,
175: 14,
176: 144,
177: 36,
178: 23,
179: 108,
180: 50,
181: 8,
182: 30,
183: 0,
184: 16,
185: 24,
186: 154,
187: 36,
188: 3214,
189: 8,
190: 250,
191: 2626,
192: 315,
193: 36,
195: 288,
196: 82,
197: 18,
198: 90,
199: 5,
200: 48
}

# Money stacks for the 20 coins in a portfolio
money_stacks = [
    1000, 10, 10, 10, 10, 10, 10, 10, 10, 10,
    10, 10, 10, 10, 10, 10, 10, 10, 10
]

# Function to calculate the weighted average rise for a portfolio
def calculate_weighted_average_rise(selected_keys):
    total_money = sum(money_stacks)
    weighted_rise_sum = sum(data[key] * money_stacks[i] for i, key in enumerate(selected_keys))
    return weighted_rise_sum / total_money if total_money != 0 else 0

# List to store the average rises for each portfolio
average_rises = []

# Generate 100 random portfolios and calculate their average rises
for _ in range(100):
    # Randomly select 20 unique keys (coins) from the data
    selected_keys = random.sample(list(data.keys()), 20)

    # Calculate the weighted average rise for the selected portfolio
    average_rise = calculate_weighted_average_rise(selected_keys)
    average_rises.append(average_rise)

# Calculate the overall average rise across all portfolios
overall_average_rise = sum(average_rises) / len(average_rises)

print(f"Overall Average Rise: {overall_average_rise}")

# Sort the average rises in ascending order and convert to integers for no decimals
sorted_average_rises = sorted(int(average_rise) for average_rise in average_rises)

# Print the sorted list
print(sorted_average_rises)
```

```
# Erstellen eines Strings mit allen Werten, getrennt durch Zeilenumbrüche
sorted_rises_str = "\n".join(map(str, sorted_average_rises))

# Drucken des Strings
print(sorted_rises_str)
```

