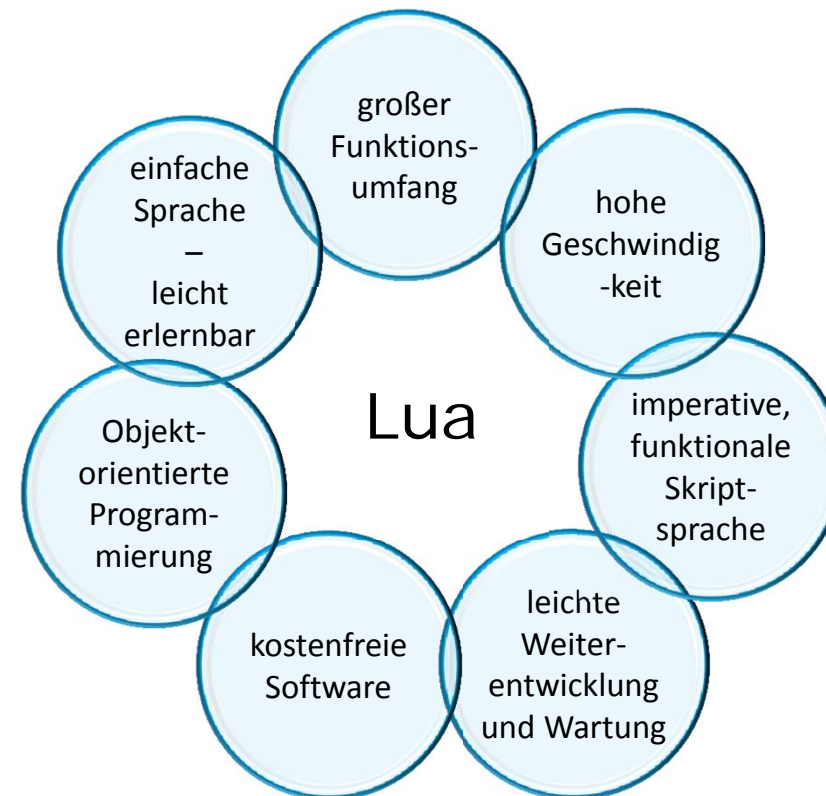


Was ist Lua?

- freie Programmiersprache
- speziell entwickelt für eingebettete Systeme von *Computer Graphics Technology Group* der Päpstlich Katholischen Universität von Rio de Janeiro (Brasilien)

```
for i = 1, 100 do
  xval[i] = i-50

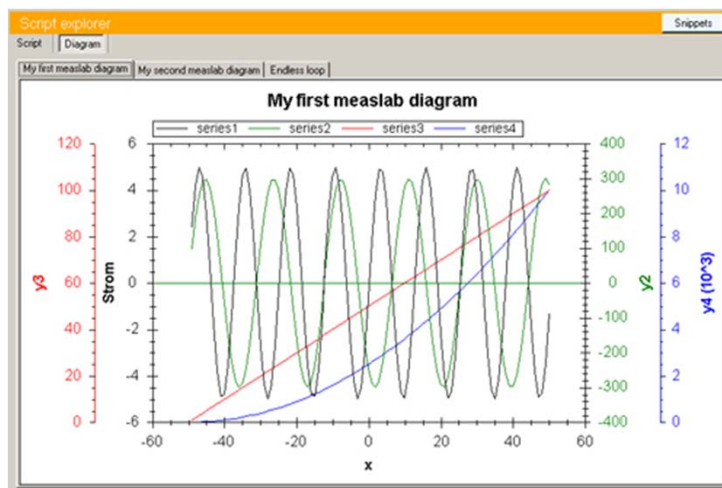
  if (sys.control_var==2) then
    yval[i] = 3 * math.sin(n/5) * math.sin(i/5 + n/3)
  elseif (sys.control_var==3) then
    yval[i] = 3 * math.sin(i/5 + n/3)
  elseif (sys.control_var==4) then
    yval[i] = 3 * math.tan(i/5 + n/3)
  end
end
end
```



Lua Script Editor

Der Editor

- inklusive Syntax-Highlighting und Auto-Complete-Funktionalität
- dient zur Visualisierung von Messdaten (Diagramme, Tabellen...)
- Integrierte graphische Benutzeroberfläche (GUI)
→ Schaffung eigener Benutzeroberfläche mit Button, Schieberegler u.a.



My first data table

x	series1	series2	series3	series4	series5	series6	series7	series8
0	1.5252195527939	2.2855258167415	2.7961172579017	2.9978950323879	2.8596462124531	2.4254892114588	1.7143195447057	0.8
1	2.0080495207514	2.6267856593401	2.9563491899654	2.9604597461494	2.6386648128527	2.0263895416535	1.191036937972	0.2
2	2.4108247910832	2.8623238451786	2.9987208091245	2.8050002721029	2.3024881739522	1.5465041154644	0.62027143887265	-0.2
3	2.7174880847921	2.9837502118052	2.9215428926346	2.5377142888978	1.8745195974778	1.0049644504677	0.02477679059911	-0.5
4	2.9158137040899	2.9862238732593	2.727892280477	2.169257645215	1.3718178799074	0.4233600241796	-0.57170388862646	-1.1
5	2.9789595223979	2.8596462124531	2.4254892114588	1.7143195447057	0.8142711248685	-0.17512243002074	-1.1453824263882	-1.5
6	2.9046591461494	2.6386648128527	2.0263895416535	1.191036937972	0.22456770616478	-0.76662230603049	-1.8734197427388	-2.2
7	2.8050002721029	2.3024881739522	1.5465041154644	0.62027143887265	-0.3742449569377	-1.3275613298946	-2.1347320947288	-2.7
8	2.5377142888978	1.8745195974778	1.0049644504677	0.02477679059912	-0.95813677056527	-1.8355736728282	-2.5109394146376	-3.2
9	2.169257645215	1.3718178799074	0.4233600241796	-0.57170388862646	-1.503831145765	-2.2704074895238	-2.7870435038123	-3.6
10	1.7143195447057	0.8142711248685	-0.17512243002074	-1.1453824263892	-1.8895725187768	-2.6147273172408	-2.9520369635144	-4.2
11	1.191036937972	0.22456770616478	-0.76662230608049	-1.6734197427398	-2.395995913924	-2.8548062216685	-2.999342051725	-4.8
12	0.62027143887265	-0.3742449569377	-1.3275613298946	-2.1347320947288	-2.7068895129854	-2.9810730109004	-2.927027895258	-5.2
13	0.02477679059912	-0.95813677056527	-1.8355736728282	-2.5109394146376	-2.9088956104463	-2.9884938250575	-2.7381103903077	-5.7
14	-0.57170388862646	-1.503831145765	-2.2704074895238	-2.7870435038123	-2.9968647512838	-2.876772239894	-2.4398881747027	-6.1
15	-1.1453824263892	-1.8895725187768	-2.6147273172408	-2.9520369635144	-2.9643683516808	-2.6503639671605	-2.0445913304004	-6.5
16	-1.6734197427398	-2.395995913924	-2.8548062216685	-2.999342051725	-2.8136919404523	-2.318293462668	-1.567893081936	-6.8
17	-2.1347320947288	-2.7068895129854	-2.9810730109004	-2.927027895258	-2.5508425106964	-1.893799913617	-1.026276259088	-6.9
18	-2.5109394146376	-2.9088956104463	-2.9894938250575	-2.7381103903077	-2.1862980398881	-1.293085320413	-0.44707530057192	0.5
19	-2.7870435038123	-2.9968647512938	-2.8767728239894	-2.4398881747027	-1.7345847252329	-0.8382464945678	0.16038102864652	1.1
20	-2.9520369635144	-2.9643683516808	-2.6503639671605	-2.0445913304004	-1.213737929129	-0.2432802084249	0.74264214276773	1.6
21	-2.999342051725	-2.8136919404523	-2.318293462668	-1.567893081936	-0.64445257293399	0.34964761455148	1.3062964571996	2.1
22	-2.927027895258	-2.5508425106964	-1.893799913617	-1.026276259088	-0.0495366788804	0.33462409054013	1.8159127208941	2.4
23	-2.7381103903077	-2.1862980398881	-1.3938065382413	-0.44787530057192	0.5473607895248	1.4822400634158	2.2541342702629	2.7
24	-2.4398881747027	-1.7345847252329	-0.8382464945678	0.16038102864652	1.1224538917137	1.970597961564	2.6024906806564	2.9
25	-2.0445913304004	-1.213737929129	-0.2432802084249	0.74264214276773	1.6527979113213	2.3810035915475	2.8470938547449	2.9

Lua Script Editor

