

Definição

- Dados Coletados em Intervalos Regulares de Tempo
 - Intervalos:
 - Milisegundos, hora, dia, mês, trimestre, ano etc.
 - Ordem < Dependência da ordem!



Não São Séries Temporais

credit-g.ani										
Relation: german_credit										
	12: property_magnitude	13: age	14: other_payment_plans	15: housing	16: existing_credits	17: job	18: num_dependents	19: own_telephone	20: foreign_worker	21: class
	Nominal	Numeric	Nominal	Nominal	Numeric	Nominal	Numeric	Nominal	Nominal	Nominal
4.0	real estate	67.0	none	own	2.0	skill...	1.0	yes	yes	good
2.0	real estate	22.0	none	own	1.0	skill...	1.0	none	yes	bad
3.0	real estate	49.0	none	own	1.0	uns...	2.0	none	yes	good
4.0	life insurance	45.0	none	for free	1.0	skill...	2.0	none	yes	good
4.0	no known property	53.0	none	for free	2.0	skill...	2.0	none	yes	bad
4.0	no known property	35.0	none	for free	1.0	uns...	2.0	yes	yes	good
4.0	life insurance	53.0	none	own	1.0	skill...	1.0	none	yes	good
2.0	car	35.0	none	rent	1.0	high...	1.0	yes	yes	good
4.0	real estate	61.0	none	own	1.0	uns...	1.0	none	yes	good
2.0	car	28.0	none	own	2.0	high...	1.0	none	yes	bad
1.0	car	25.0	none	rent	1.0	skill...	1.0	none	yes	bad
4.0	life insurance	24.0	none	rent	1.0	skill...	1.0	none	yes	bad
1.0	car	22.0	none	own	1.0	skill...	1.0	yes	yes	good
4.0	car	60.0	none	own	2.0	uns...	1.0	none	yes	bad
4.0	car	28.0	none	rent	1.0	skill...	1.0	none	yes	good
2.0	car	32.0	none	own	1.0	uns...	1.0	none	yes	bad
4.0	life insurance	53.0	none	own	2.0	skill...	1.0	none	yes	good
3.0	car	25.0	bank	own	3.0	skill...	1.0	none	yes	good
2.0	no known property	44.0	none	for free	1.0	high...	1.0	yes	yes	bad
2.0	car	31.0	none	own	1.0	skill...	2.0	yes	yes	good
4.0	car	48.0	none	own	3.0	skill...	1.0	yes	yes	good
3.0	real estate	44.0	none	rent	1.0	skill...	2.0	none	yes	good
3.0	real estate	48.0	none	rent	2.0	uns...	2.0	none	no	good
4.0	life insurance	44.0	none	own	1.0	skill...	1.0	none	yes	good
1.0	car	26.0	none	own	2.0	skill...	1.0	none	no	good
2.0	real estate	36.0	bank	own	1.0	uns...	1.0	yes	yes	good
4.0	car	39.0	none	own	1.0	uns...	1.0	none	yes	good
3.0	real estate	42.0	none	rent	2.0	skill...	1.0	none	yes	good
2.0	real estate	34.0	none	own	1.0	skill...	1.0	none	yes	good
4.0	no known property	63.0	none	own	2.0	skill...	1.0	yes	yes	bad
3.0	real estate	36.0	bank	own	1.0	skill...	1.0	yes	yes	good
2.0	car	27.0	stores	own	1.0	skill...	1.0	none	yes	good
2.0	car	30.0	none	own	2.0	skill...	1.0	yes	yes	good
4.0	no known property	57.0	none	rent	1.0	uns...	1.0	none	yes	good
1.0	life insurance	33.0	bank	own	1.0	high...	1.0	yes	yes	good
3.0	life insurance	25.0	none	own	2.0	uns...	1.0	none	yes	bad
2.0	no known property	31.0	bank	for free	1.0	skill...	1.0	yes	yes	good
2.0	real estate	37.0	stores	own	1.0	skill...	1.0	none	yes	bad

Relation: iris					
No.	1: sepalwidth	2: sepalwidth	3: petalwidth	4: petalwidth	5: class
	Numeric	Numeric	Numeric	Numeric	Nominal
1	5.1	3.5	1.4	0.2	Iris-setosa
2	4.9	3.0	1.4	0.2	Iris-setosa
3	4.7	3.2	1.3	0.2	Iris-setosa
4	4.6	3.1	1.5	0.2	Iris-setosa
5	5.0	3.6	1.4	0.2	Iris-setosa
6	5.4	3.9	1.7	0.4	Iris-setosa
7	4.6	3.4	1.4	0.3	Iris-setosa
8	5.0	3.4	1.5	0.2	Iris-setosa
9	4.4	2.9	1.4	0.2	Iris-setosa
10	4.9	3.1	1.5	0.1	Iris-setosa
11	5.4	3.7	1.5	0.2	Iris-setosa
12	4.8	3.4	1.6	0.2	Iris-setosa
13	4.8	3.0	1.4	0.1	Iris-setosa
14	4.3	3.0	1.1	0.1	Iris-setosa
15	5.8	4.0	1.2	0.2	Iris-setosa
16	5.7	4.4	1.5	0.4	Iris-setosa
17	5.4	3.9	1.3	0.4	Iris-setosa
18	5.1	3.5	1.4	0.3	Iris-setosa
19	5.7	3.8	1.7	0.3	Iris-setosa
20	5.1	3.8	1.5	0.3	Iris-setosa
21	5.4	3.4	1.7	0.2	Iris-setosa
22	5.1	3.7	1.5	0.4	Iris-setosa
23	4.6	3.6	1.0	0.2	Iris-setosa
24	5.1	3.3	1.7	0.5	Iris-setosa
25	4.8	3.4	1.9	0.2	Iris-setosa
26	5.0	3.0	1.6	0.2	Iris-setosa
27	5.0	3.4	1.6	0.4	Iris-setosa
28	5.2	3.5	1.5	0.2	Iris-setosa
29	5.2	3.4	1.4	0.2	Iris-setosa
30	4.7	3.2	1.6	0.2	Iris-setosa
31	4.8	3.1	1.6	0.2	Iris-setosa
32	5.4	3.4	1.5	0.4	Iris-setosa
33	5.2	4.1	1.5	0.1	Iris-setosa
34	5.5	4.2	1.4	0.2	Iris-setosa
35	4.9	3.1	1.5	0.1	Iris-setosa
36	5.0	3.2	1.2	0.2	Iris-setosa
37	5.5	3.5	1.3	0.2	Iris-setosa
38	4.9	3.1	1.5	0.1	Iris-setosa
39	4.4	3.0	1.3	0.2	Iris-setosa

Evasão de alunos por mês



PROF.
FERNANDO
AMARAL
www.datascientist.com.br



Internações por dia



**PROF.
FERNANDO
AMARAL**
www.datascientist.com.br



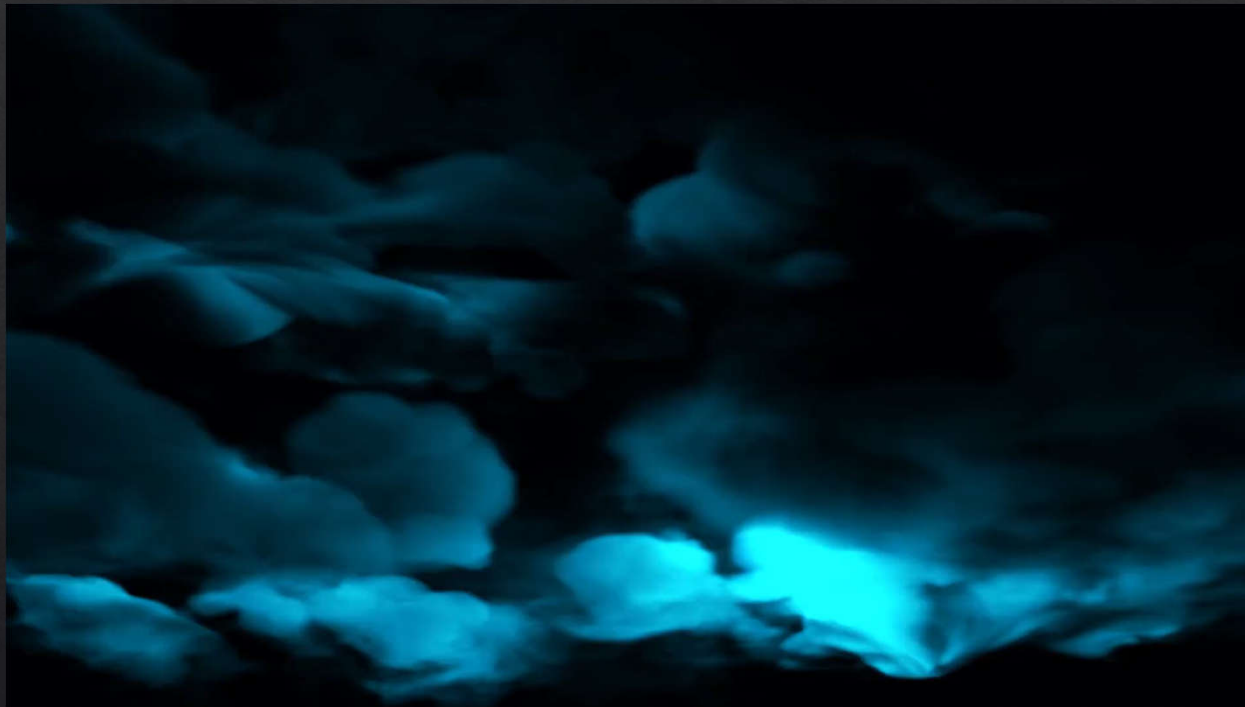
Mortes por problemas cardíacos por ano



PROF.
FERNANDO
AMARAL
www.data scientist.com.br



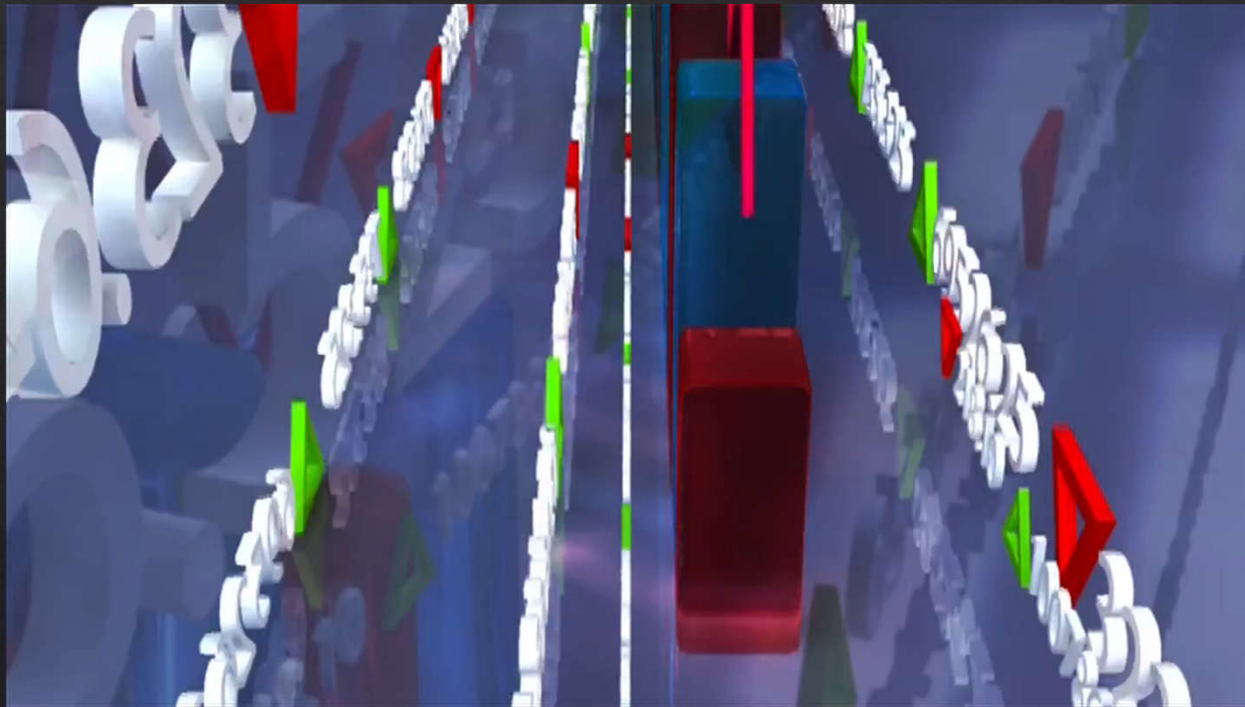
Índice pluviométrico mensal



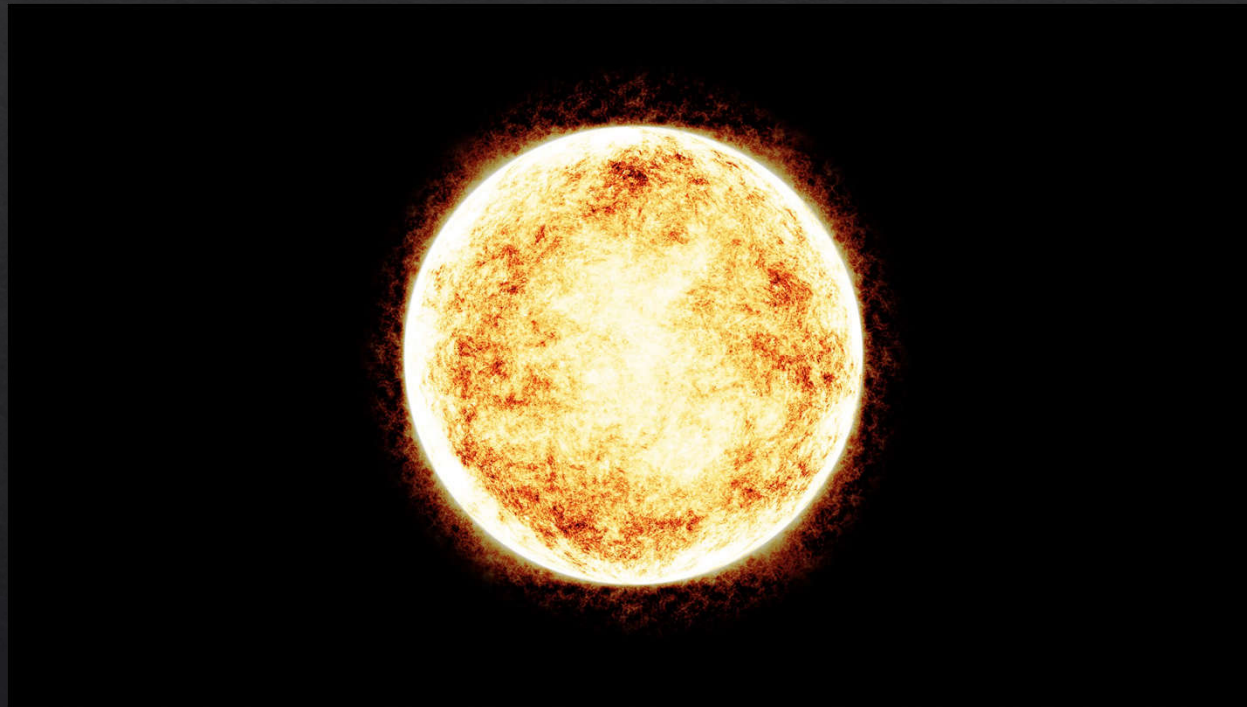
PROF.
FERNANDO
AMARAL
www.datascientist.com.br



Cotação da bolsa por minuto



Manchas solares por mês



PROF.
FERNANDO
AMARAL
www.datascientist.com.br



Toneladas de soja colhidas por mês



Passageiros transportados por mês



**PROF.
FERNANDO
AMARAL**
www.datascientist.com.br

Nascimentos por inseminação artificial por ano



Componentes

- Total de pessoas atendidas em um Hospital por dia

Medida

Fato

Unidade de
Tempo



Ordem

DEPENDÊNCIA DA
ORDEM!

- Total de pessoas atendidas em um Hospital por dia



01/03	02/03	03/03
323	298	404



PROF.
FERNANDO
AMARAL
www.data scientist.com.br



Por que ST?

- Compreender Fenômenos
- Prever Eventos

