



SAS Club 2020

Corona-Rückschau & “SAS Forecast”

Rainer Sternecker

DACH Cloud & Innovation, Customer Advisory Manager



SAS Club 2020

Corona-Rückschau & “SAS Forecast” Ongoing

Rainer Sternecker

DACH Cloud & Innovation, Customer Advisory Manager



SAS & Corona

COVID-19 Task Force

Information	Research	Data Hub	Analytics Services	Use Cases
SAS COVID-19 Resource Hub mit Coronavirus-Dashboards, kostenlosen E-Learnings oder gratis E-Books	Unterstützung öffentlicher Hackathons und Research Projekte	Auswahl, Aufbereitung und Bereitstellung von relevanten Daten	Lösung von aktuellen analytischen Fragestellungen Einspringen in SAS Aufgaben bei Kunden Analytics Coaching	Kundenspezifische Dashboards Rapid Response Environments Branchen Use Cases

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COVID-19 Task Force

Information

SAS COVID-19 Resource
Hub mit Coronavirus-
Dashboards, kostenlosen
E-Learnings oder gratis
E-Books



Link: [Corona-Dashboard](#)

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COVID-19 Task Force

Information

SAS COVID-19 Resource
Hub mit Coronavirus-
Dashboards, kostenlosen
E-Learnings oder gratis
E-Books



Link: [Home Alone - Data Science Class with Gerhard Svolba](#)

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COVID-19 Task Force

Research

Unterstützung
öffentlicher Hackathons
und Research Projekte



kaggle

COVID-19 Global Hackathon



category_level_1

Stay at Home

Local Shopping Solutions

Children and Family

Medical Supplies

Food

Fake News

Virtual Schools

Small Business

Shopping and Supermarkets

Chatbots

Social Distancing

Virtual Spaces (pub

Helping Others

Home

Minimize waiting exposure

Mental Health

Communication and Information

245
37

0.53 0.65

Distinct_Count sentiment_score

[illegible]

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COVID-19 Task Force

Analytics Services

Lösung von aktuellen
analytischen
Fragestellungen

Einspringen in SAS
Aufgaben bei Kunden

Analytics Coaching

Coronavirus: Hilfe für SAS Kunden

Use Cases beschleunigen, Projekte weiterführen, Plattformen betreiben

(1) Hilfe für den
Betrieb Ihrer SAS
Lösung

(2) Ask the expert -
Hilfe durch
Expertenratschläge

(3) Use Case
Accelerator – Hilfe
für neue Projekte

Link: www.sas.de/sashilft

Corona – SAS Use Case Accelerator

Link: [Press-Release](#)

Wo gibt es freie Intensivbetten mit Beatmungsgeräten für

Robert Koch-Institut und Fachgesellschaften
hochverfügbar

Heidelberg, (07. Apr)
Das Robert Koch-Institut
haben gemeinsam mit
Bedarf an freien Intensivbetten
Lösungen, hat diese

Robert Koch-Institut



18

Tage von Projektstart bis zum Go Live

Home IntensivRegister FAQ Reports Ansprechpartner

Willkommen im
DIVI-Intensivregister
www.intensivregister.de

Unser Auftrag

Täglich erfasst das DIVI-Intensivregister die freien und belegten Behandlungskapazitäten in der Intensivmedizin von etwa 1.300 Akut-Krankenhäusern in Deutschland. Zudem werden auch aktuelle Fallzahlen intensivmedizinisch behandelter COVID-19 PatientInnen aufgezeichnet. Das Register ermöglicht in der Pandemie, und darüber hinaus, Engpässe in der intensivmedizinischen Versorgung im regionalen und zeitlichen Vergleich. Das DIVI-Intensivregister ist eine wertvolle Grundlage zur Reaktion und zur datengestützten Handlungssteuerung in Echtzeit seit April 2020.

1.300

meldende Kliniken

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COVID-19 Task Force

Use Cases

Kundenspezifische
Dashboards

Rapid Response
Environments

Branchen Use Cases


SAS® Visual Investigator - Investigate and Search Data - Alert

Home Alerts Tasks Management Search | 637176016


Assignment Dispositions 0 Attachments 0 Comments

Alert Details Alert Activity Scoring History Alert History Workspace

Locations



Network



Contact Trace


Contact Trace (11)

	Patient Last ...	Patient First ...	Patient Date ...	County Of R...	Admission D...	Interviewer
	Derek	Damon	Jul 7, 1991	Wake		stshir
	Moi	Ashley				sasdemo
	Harris	Clifford	May 6, 1993	Wake		stshir

1 - 10 of 11 objects objects per page 10

Patient Information

Patient First Name Barbara	Street Of Residence
Patient Last Name Baez	City Of Residence
Patient Race	County Of Residence
Patient Sex	State Of Residence



Contact Tracing mit SAS Visual Investigator



Alert Summary

[Location of Community Spread](#)

Count

8

Median Age

7 days



Search



Contact Trace Search

Patient First Name:

Patient Last Name:

Patient Date of Birth:

[Search](#)[Reset](#)

New Document



Contact Trace



User Profile



Location

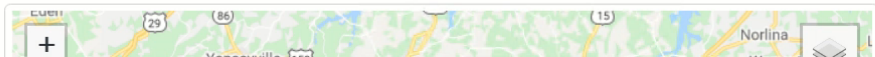


Lab Result

My Tasks

	Object	Task	Description	Due Date
	55667788 Jean Ang	Conduct Interview	You are tasked with ...	May 23, 2020
	2222 Kyle Wright	Conduct Interview	You are tasked with ...	May 24, 2020
	NC-223829 Jacquiel...	Conduct Interview	You are tasked with ...	May 25, 2020
	NC-282376 Robert ...	Conduct Interview	You are tasked with ...	May 26, 2020
	3333 Ashley Moi	Conduct Interview	You are tasked with ...	May 26, 2020
	NC-1998290 Harol...	Conduct Interview	You are tasked with ...	May 27, 2020
	NC-938459 Joseph ...	Conduct Interview	You are tasked with ...	May 28, 2020

Map Search

☒ Radius search ☐ Area search

Recently Viewed

	Object	Viewed
	637176016	May 28, 2020 2:59:08 AM

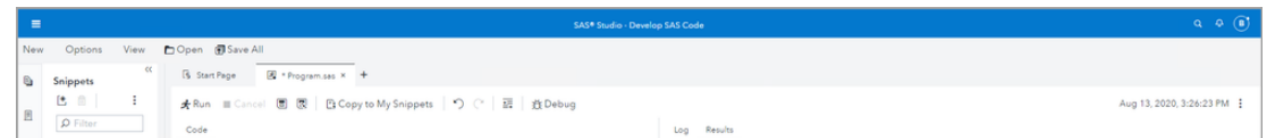
SAS Blogs

Link: [Sensitivity & Specificity in Disease Testing: Statistical Concepts in the Time of Coronavirus](#)

CAUTION: Although PROC FREQTAB in SAS Viya provides capabilities similar to the capabilities of PROC FREQ in SAS 9 SAS/STAT software, do not use PROC FREQTAB on Viya to calculate these biostatistical measures. ORDER = DATA is not an option in PROC FREQTAB because in a distributed environment like Viya, the data are divided onto different nodes and threads. Therefore, if your positives are 1s and your negatives are 0s, the default ordering of the table will make your sensitivity, specificity, PPV and NPV incorrect. You could fix this by making your positives 0s and your negatives 1s, but that could be somewhat confusing and counterintuitive.

Table 5.1: Comparison of PROC FREQTAB and PROC FREQ

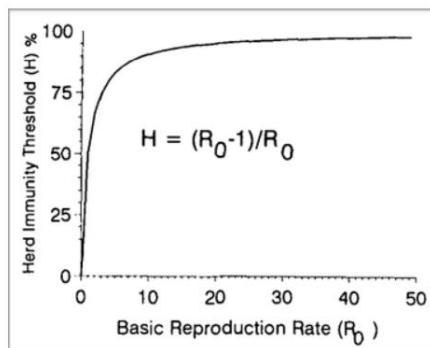
Feature	PROC FREQTAB	PROC FREQ
Provides statistical analysis of frequency and crosstabulation tables	Yes	Yes
Provides OUT=, OUTPUT, and ODS output data sets	Yes	Yes
Threading	Tabulation designed for CAS; executes on multiple threads	Executes on a single thread
Supports MISSING option	In PROC FREQTAB statement	In TABLES statements
Supports SPARSE option	No	Yes
Supports CHISQ(TESTP=SAS-data-set)	No	Yes



SAS Blogs

Link: [SAS Helps You Understand Disease Spread: Biostat Concepts in the Time of Coronavirus](#)

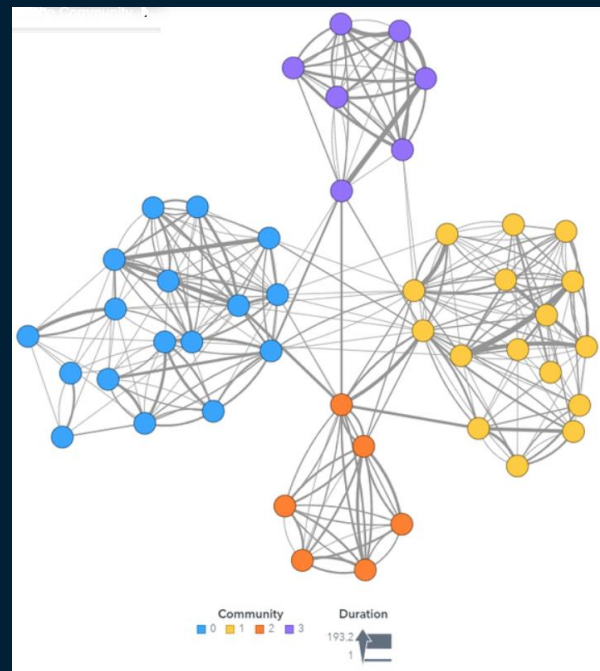
Graphed, this would look like:



Using this formula, and the R_0 s in the table up above, we can estimate Herd Immunity Thresholds.

ESTIMATES of R_0 and Herd Immunity Threshold

DISEASE	R_0	Herd Immunity Threshold
Bubonic Plague	1.4-1.8	29-44%
Ebola	1.3-4.7	23-79%
Influenza	1-2	0-50%



SAS Blogs

Link: [Network Analysis in SAS Visual Analytics: Biostats in the Time of Coronavirus](#)

Comparing Centrality Metrics

Reach

(Range 0 to ∞)
(Here 0 to 2)



Closeness

(Range 0 to 1)



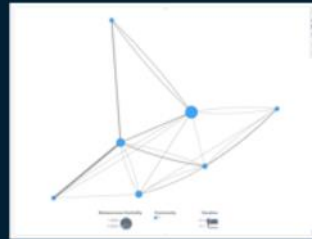
Stress

(Range 0 to 1)



Between- ness

(Range 0 to 1)



For more details and information on how these metrics are calculated, see [this video](#).

SAS Blogs

Link: [Track Social Distancing Using Computer Vision](#)

Track Social Distancing Using Computer Vision



Michael Gorkow Apr 29 · 3 min read



SAS Blogs

Link: [Face Mask Detection using Computer Vision](#)

Face Mask Detection using Computer Vision



Michael Gorkow Oct 2 · 4 min read ★



A series of horizontal bars of varying lengths and colors (teal, blue, and dark blue) are arranged vertically on the left side of the slide, creating a decorative, abstract pattern.

Vielen Dank!

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