[root@inf-stgt]# make ./songbook
Loading IO services ... done.
Searching for good songs ... done.
Generating lyrics ... done.
Adding chords ... done.
Compiling TeX document ... done.
Songbook finished with 0 warnings.

[root@inf-stgt]# songbook/run

## SOUNDS OUT OF BOUNDS

- Wiederverwendbare Liedermodule-

Ein Liederbuch-Projekt der Informatiker & Softwaretechniker an der Uni Stuttgart

# Options:

-a, --about Contributors and Credits

-h, --help Print this info

-b, --browse Read the book's content

-s, --sing Sing all the songs together

-p, --party Get out of bounds

[root@inf-stgt]# songbook/run -p

# Inhaltsverzeichnis

Branching Tree	4
Another Byte In The Code	6
The Final Countdown	7
Never Gonna Push You Up	8
Commit The Code, Jack	LO
Overflow (Security Regrets)	12
	L4
Alles in der Cloud	۱6
Mad World	18
Gamer	20
Another Day in Tech Support	22
A New PC (Everything At Once)	24
Smombie	26
	27
Applaus, Applaus	28
That's What Math Is For	29
Word User Trying TEX	30
Python	32
Tux, The Magic Penguin	34
Bonus I: Volker Claus	36
Bonus II: Kunst Am Bau	38

### Vorwort

Liebe Leserin, lieber Leser!

Fertig kompiliert, Beta-getestet und integriert liegt es nun in deinen Händen, das neue Liederbuch für Informatiker, Softwaretechniker, IT-ler und alle Interessierten. Es erwartet dich eine bunte Mischung von komplett selbst-gedichteten Songtexten, die die "Welt der Informatik" thematisieren, aber nicht allzu ernst nehmen. Das Digitale nimmt heute so viel Einfluss auf unsere Leben wie noch nie zuvor – da ist es doch völlig angebracht, auch einmal unsere Smartphones und Computer, und unsere Erlebnisse mit ihnen, ausgiebig zu besingen.

Entstanden ist das ganze aus dem Wunsch heraus, den damals von der Stuttgarter Informatik- und Softwaretechnik-Fachschaft herausgegebenen und mittlerweile etwas in die Jahre gekommenen Liederbüchern *Chor Dump* und *Chor Dump* 2 einen würdigen Nachfolger zu bescheren. Da wir mit der Zeit gehen möchten, heißt der Untertitel des Buches nun natürlich nicht mehr *Effiziente Algorythmen*, sondern *Wiederverwendbare Liedermodule*.

Danken möchten wir Jun.-Prof. Dirk Pflüger, der eines Abends auf der Ferienakademie im schönen Sarntal den Anstoß für die Idee gegeben hat; den fleißigen Fachschaftlern, die tollerweise das Drucken übernommen haben; sowie natürlich allen, die kreative Ideen und Texte für die Lieder eingebracht haben.

Damit wäre alles geklärt – ganz viel Spaß beim Singen!

Dominik Schreiber

# Hinweise

Die Lieder sind soweit möglich thematisch sortiert; Freunde der Softwareentwicklung beginnen am besten ganz am Anfang, während die "Endbenutzer" des Liederbuchs insbesondere auf den Seiten 14 bis 27 auf ihre Kosten kommen. Hymnen auf einzelne, bekannte Institutionen aus dem Bereich der Informatik (etwa Linux oder Python) folgen ab Seite 28. Abgerundet wird das Buch durch zwei "Bonus-Lieder" spezifisch für die Informatik an der Uni Stuttgart.

Refrains sind grau hinterlegt. Zu Strophen und Bridges sind die Akkordfolgen in der Regel einmal angegeben, und werden dann implizit wiederholt. Die Lieder sollte man im Ohr haben, da keine Noten abgedruckt sind.

Die Tonart einiger Lieder wurde zugunsten der Spielbarkeit angepasst.



a e
I'm sitting here in a boring room
a e
The program must compile until tomorrow noon
a e

a l'm wasting my time, looking for a bug
a e

For hours and hours I am trying my luck

d e a e a

But nothing ever happens - and I wonder.

My partner tells me, "Everything's fine, I fixed that problem on my branch for quite some time Just fetch and merge, stage and commit and don't forget to push – that should be it" But nothing ever happens – and I wonder.

C G a e
I wonder how, I wonder why, Git does seem so easy for that other guy
d G C G
but all that I can see is just the giant branching tree.
C G a e
I pull and push every time, still merging conflicts haunt me every second line
d D G
and all that I can see is just that giant branching tree.

Original:

Fool's Garden – Lemon Tree

Text:

Dominik Schreiber

Sing, Git
e a
Gididi di Gidi-git
e d
Gididi di di Gidi git
e a e a
I can't commit.

I'm sitting here, still no success I'm understanding less and less A dirty worktree? What is that? My eyes are heavy, I wish for my bed While nothing ever happens and I wonder

E a
Compilation is so far away
G C E
Compilation – I start thinking I just should start to pray
a e
My IDE desynchronized
a e
My commands still not recognized
d e a e a
And nothing ever happens – and I wonder.

I wonder how, I wonder why – Git does seem so easy for that other guy but all that I can see is just the giant branching tree.
I pull and push every time, still, merging conflicts haunt me every second line and all that I can see is just that giant branching tree.
And I wonder, wonder

C G
I wonder how, I wonder why

a e
Someone told me Git was easy - What a lie!

d G
And I can't even see

F G
And I can't even see

F G
And I can't even see

C
The branching tree anymore.

# Another Byte In The Code

d
We don't need no commentation
We don't need no style control
No high abstraction and info hiding
Checker, leave our code alone
G d
Hey, Checker, leave my code alone

Original:

Pink Floyd – Another Brick In The Wall, Part 2 *Text:* 

Dominik Schreiber

We don't need no commentation We don't need no style control No high abstraction and info hiding Checker, leave our code alone Hey, Checker, leave my code alone

All in all it's just another byte in the code All in all it's just another byte in the code

Was hältst du eigentlich von Vererbung?

– Super!

# The Final Countdown

Original:

Europe – The Final Countdown

Dominik Schreiber

Text:

We're coding together, but still so far away

f# G#/E A

And after we merged it, will it work, who can tell?

D E

I guess the server is to blame

A G#/E f# E D

We're squashing bugs (squashing bugs)

C# E

Will the system ever work again?

f# Dh

It's the final countdown

E f# DhE C#

The final countdown — Oh

We're heading for features (features) which the client wants 'Cause maybe he'll try it (try it) and then scold us all, yeah With so many lines still to go
And bugs to be found (to be found)
Eventually we'll just make it worse

#### 2x Refrain

It's the final count down

(We're coding together)

The final count down

(We just make it worse)

It's the final countdown

It's the final countdown

Oh – It's the final countdown, yeah

# Never Gonna Push You Up

Original:

Rick Astley – Never Gonna Give You Up

Text:

Tobias Klotz

Gotta make you understand

F G

Never gonna push you up
e a

Never gonna pull you down
F G e a

Never gonna run around and rebase you
F G

Never gonna merge the diff
e a

Never gonna help and give
F G e a

Never gonna tell a change and stash you

We've known each other for so long Your branch's been aching but You're too shy to merge it Inside we both know what's been going on We know the remote and we're gonna rebase it And if you ask me how I'm coding Don't tell me you're too blind to read

#### 2x Refrain

```
F a G
(Ooh, push you up)
F a G
(Ooh, push you up)
F a G
(Ooh) Never gonna push, never gonna push (push you up)
F a G
(Ooh) Never gonna push, never gonna push (push you up)
```

We've know each other for so long Your branch's been aching but You're too shy to merge it Inside we both know what's been going on We know the remote and we're gonna rebase it I just wanna tell you how I'm coding Gotta make you cry

3x Refrain

WELCHE WORTE AKZEPTIERT EIN SCHWEDISCHER PALINDROM-AUTOMAT?

. . .

LAGERREGAL UND ABBA.

# Commit The Code, Jack

Original: Ray Charles – Hit The Road, Jack
Text: Simon Reiß

a G F E (DURCHGÄNGIG)

Commit the Code, Jack and don't you hold back no more, no more, no more, no more Commit the Code, Jack and don't you hold back no more

What you say?

Commit the Code, Jack and don't you hold back no more, no more, no more Commit the Code, Jack and don't you hold back no more

> Woah, Client, oh Client, don't put pressure on me You're the most demanding Client I'll ever see I guess if you said so Now I'll have to commit and show

That's right

Refrain

Now Boss, listen, Boss, don't you rush me this-a way Cause Jenkins will crash if I commit today

Don't care if he does 'cause we agreed You had to add the feature, you said you'd succeed

Well, I guess if you said so Now I'll have to commit and show

That's right

REFRAIN

What you say?

Commit the Code, Jack and don't you no more, no more, no more, no more Commit the Code, Jack and don't you hold back no more	hold back
Don't you hold back no more	Well
Don't you hold back no more	Uh, let me test.
Don't you hold back no more	
Don't you hold back no more	I need more time!
Don't you hold book no more	You can't use that!
Don't you hold back no more	Oh, now Boss, please!
Don't you hold back no more	The feet with horsest to a control
Don't you hold back no more	The feature is done soon I guarantee.
	Oh, don't demand so much of me!
Don't you hold back no more	

ICH HABE EINEN INFORMATIKER GEFRAGT, OB ER WAS VOM AUTOMATEN MÖCHTE. IHM FEHLTEN DIE WORTE.

# Overflow (Security Regrets)

Original: Passenger – Let Her Go Text: Simon Reiß, Dominik Schreiber

C
Well you only check your code when it's running slow
D e
Only see the leak when your memory's low
C G D
Only know your buffers when they overflow
C
Only know SSL when it broke somehow
D e
Only lock your ports when the problems grow
C GD
Only know your buffers when they overflow And they overflow
And they overnow
e C D h e C D
e C
Staring at the bottom of your class
D h
Hoping one day you'll make the tests pass  e
But they run slow and they fail so fast
e C
You'd see it if you looked real close
D h
But time is sparse and the pressure grows
, CD

#### Refrain

Everything you code is insecure

Staring at the SQL command
The data's gone, and the admin's banned
Cause injects are cruel, and they happen so fast
Staring at the empty database
You merely hope that the hardware stays
The username hasn't been escaped

#### Refrain

And they overflow Oh oh oh no And they overflow Oh oh oh no Now they overflow

#### 2x Refrain

#### ZEHN KLEINE SOFTWARENASCHER

ZEHN KLEINE SOFTWARENASCHER MACHTEN EINEN JOIN DER EINE RECHNET IMMER NOCH, DA WAREN'S NUR NOCH NEUN NEUN KLEINE SOFTWARENASCHER VERERBTEN EINE BOOL EINER MALT WOHL IMMERNOCH DAS UML-MODUL ACHT KLEINE SOFTWARENASCHER SURFTEN GERNE SCHNELL SIEBEN HATTEN LTE UND EINER NUR ... [LOADING] SIEBEN KLEINE SOFTWARENASCHER SCHRIEBEN AUF NEN STACK EINER PUSHTE IHN ZU VOLL, DA WAR DAS PROGRAMM WEG SECHS KLEINE SOFTWARENASCHER NUTZTEN SVN. DEM EINEN HAT DAS NICHT GEFALLN' DA FING ER AN ZU FLENN' FÜNF KLEINE SOFTWARENASCHER RANNTEN UM DIE WETT' Einer der Verhungerte, der Rest kam nicht vom Fleck VIER KLEINE SOFTWARENASCHER SCHRIEBEN SQL Einer hiess: drop table \* und löschte alles schnell Drei kleine Softwarenascher hosteten lokal EINER CRASHTE SEIN' PC, ER STARTETE VIERMAL ZWEI KLEINE SOFTWARENASCHER DURCHLIEFEN EINEN GRAPH DER EINE HING IM ZYKLUS FEST, DAS ZIEL ER NIEMALS TRAF EIN KLEINER SOFTWARENASCHER HATTE SEINE RUH Er codete still und vergnügt – Tags, Nachts und immerzu.

Firewall	Original:
d F Today is gonna be the day C G That they're gonna throw their shit at you d F By now you should've somehow C G been programmed what you gotta do d F I don't believe that anybody C G d F C G can guard me as well as you do right now  Online the word was in the threads Some new malware's pushing through I'm sure they've hacked it all before But I still believe in you I don't believe that anybody	Oasis – Wonderwall Text: Dominik Schreiber
can guard me as well as you do right now  Bb C d  And all the websites that I use are winding Bb C d  And all the download buttons are so blinding Bb C F C d  There may be some things that I should configure in you  G  (But I don't know how) —	
Bb d Because maybe F Bb d You're gonna be the one that saves me F C Bb d 'Cause after all F C Bb d F G You're my firewall	

Today you've gotten in their way
But they're never gonna give that up
By now you have somehow
Realized who is not allowed
I don't believe that anybody
can guard me as well as you do right now

And all the trojan horses are proceeding
And all the download buttons are misleading
There may be some things that I should configure in you
(But I don't know how) –

Because maybe
You're gonna be the one that saves me
'Cause after all
You're my firewall

I said maybe
You're gonna be the one that saves me
And after all
You're my firewall

Bb d
I said maybe
F Bb d
You're gonna be the one that saves me
F Bb d
You're gonna be the one that saves me
F Bb d
You're gonna be the one that saves me
F Bb d
You're gonna be the one that saves me

# Alles in der Cloud Original: Die Prinzen – Alles nur geklaut Text: Ich programmier' nen Hit G Die ganze Nation nutzt es schon e Alle machen mit G C G Alle nutzen's jeden Tag

Н

Denn das ist alles in der Cloud,
C
das ist alles nicht mehr seine,
e
das ist alles in der Cloud,
C
Und liegt im Ausland ganz alleine
G
Das wird alles outgesourct
D
e
H
auf die Server, und vermarktet und geraubt.
D
H
e
Das hat er in den AGB erlaubt.

Ich bin tierisch reich, ich hab 'ne Anwaltsschar, das ist doch klar. Alle Leut' sind gleich Sie wollen shoppen gehen und süße Bilder seh'n Das macht mich zum großen Held Ich kauf' Startups mit meinem Geld Auf dass mein Imperium niemals fällt

weil es jeder mag

Hoffentlich liest keiner den Vertrag...

C

#### REFRAIN

Stell' mich Gesetzen quer, doch bald schon merke ich: das wird nicht leicht für mich. Die NSA kommt her Sie spricht in mein Gesicht, "Willst du nicht vor Gericht, Dann gib uns deine Daten jetzt, Und ne Backdoor nicht zuletzt, Denn wir kämpfen gegen Terror, gut vernetzt:"

#### Refrain

е

Auf deinen Heiligenschein

 $\mathcal{C}$ 

fall' ich auch nicht mehr rein

e

denn auch du bist ganz bestimmt

Н

einer der nichts unternimmt

Denn das ist alles in der Cloud, das ist alles nicht mehr deine, das ist alles in der Cloud, Und liegt im Ausland ganz alleine Das wird alles outgesourct auf die Server, und vermarktet und geraubt. Das hast du selbst erlaubt.

#### Mad World

e G
All around me are the modern gadgets
D A
endless streaming without meaning
e G
To the internet they send their data
D A
Cloud connected, unsuspected

My phone commands my house by WiFi Doors unlocking, sunlight blocking With an app I make myself a coffee My fridge is tweeting: "Milk's depleting" Original:
Gary Jules – Mad World
Text:
Dominik Schreiber
(Inspirationen von
@internetofshit)

e A e A

When my toothbrush does an update

e A e A

When was too tell you, I find it hard world

e A e A

When my toothbrush does an update

e A e A

It's a very very mad world, mad world

Now my door tells me its' antivirus is out of date, because the update's late Honestly I'd feel a whole lot safer with a good old key without the NFC

I can't stop my lightbulb playing music The switch is offline, the switch is offline Hello car, please let me drive to work My watch is syncing by bluetooth linking And I find it kinda funny, I find it kinda sad
The barbie dolls are spying on our children, no one's mad
I find it hard to tell you, I find it hard to take
When my thermostat is tweeting
It's a very very mad world, mad world

e A
Connect your world
e A
Mad world

# WIE BRINGT MAN EINEN INFORMATIKER AM EINFACHSTEN ZUM KOLLABIEREN?

. . .

Man gibt ihm ein Buch zu Lesen, bei dem das Inhaltsverzeichnis einen Verweis auf das Inhatsverzeichnis enthält.

Gamer Original: Meredith Brooks - Bitch Text: I hate the world today Heiko Geppert Everyone is so cruel to me You know but you won't change I tried to tell you but you look at me like aliens I'm an gamer underneath immortal and freak Yesterday I streamed You must have been confused To see my crazy side I can understand that you are still a newbie I'll be teaching you I'm a demigod of every game All rolled into one

 So take me as I am I'm not athletic and no charismatic man You need to know that when I start to talk 'bout tactics And I'm going to extremes My interests won't change About your outfit I won't care

#### Refrain

G
Just when I think I've got it figured out
a
F
The meta<sup>1</sup>'s already chang in'
G
a
I think it's cool to do what I do
F
And don't try to flame me

#### Refrain

I'm a geek, I'm disease I'm so godlike on my sprees When you fail, when you despair I'm your darky who repairs I've been shot, I respawned Now my enemy is PWN3D I know he wouldn't get it any other way

 $<sup>^1</sup>$ Meta Game: Menge der gängigen Spieltaktiken bei Onlinespielen, die dann wiederum nach anderen, neuen Taktiken verlangen ("Meta~Shift")

# Another Day in Tech Support

Original:

||: f# f# E H :||

Phil Collins – Another Day in Paradise Text:

f# E H

Tobias Klotz, Dominik Schreiber

She calls out to the man at the desk

f# E

"Sir, can you help me?

f# E H

I'm in a hurry and this printer seems dead,

f# E

Anything you can do here?"

He sighes, stands up and helps He pretends to be caring Starts to sweat as he unplugs the device This old thing shouldn't be there

f# c#

There's noooo resort

 $\mathsf{D}^\Delta$ 

It's another day for you and me in tech support

f# c# Reboot, and abort,

 $\mathsf{D}^\Delta$  E

It's another day for you, you and me in tech support

||: f# f# E H :||
(Think about it)

She calls out to the man on the phone He can hear she's been crying She's got a lot of malware, toolbars and more She can't browse, but she's trying

E f# E A

Oh Lord, I hate to be one of those poor guys

E A E A

Oh Lord, there must be something I could change

You can tell from the constant pop-ups That the updates are piling This machine takes twelve minutes to boot So deformed it's disgusting

Noooo resort cause it's another day for you and me in tech support Reboot, and abort, It's another day for you, you and me in tech support, tech support Just think about it, tech support, just think about it Tech support, tech support

WAS HABEN GRAPHENTHEORIE UND DER TWITCH CHAT GEMEIN?

. . .

Beide spammen "Kappa".

# A New PC (Everything At Once)

e
As tough as a stone, as small as my phone
e
As fast as light, best Intel inside
D
A screen like my TV, sparing as an LED

Fast as an SSD, ample as an HDD

Original:
Lenka – Everything At Once
Text:
Dominik Schreiber

e D e D
All I wanna have, All I wanna have, oh
e D H
All I wanna have is a new PC

As cheap as a screw, as free as a  $\mathrm{GNU}^2$  As cool as space, as useful as an Ace Addicting as meth, running 'til my death As certain as night, always by my side

As tiny as a Raspi, pretty as a blue sky Perfect as Utopia, solid as a Nokia Famous as a rock star, modern as a Google Car Precious as a gold bar, pleasant as a cookie jar

e D e D

All I wanna have, All I wanna have, oh
e D H

All I wanna have is a new PC

C e C

with everything at once Everything at once, oh-oh

H

Everything at once

<sup>&</sup>lt;sup>2</sup>Betriebssystem-Projekt, das den Begriff *Freie Software* maßgeblich geprägt hat

As silent as a breeze, as cool as a freeze Computing like a Hazel Hen<sup>3</sup>, never needing any fan Graphics like a winter day where I'd always wanna stay Bluray drive with read and write, And some speakers, loud and bright

Open as a Linux, gorgeous as a Mac Easy as a Windows, yet hard to hack Stable as a Debian<sup>4</sup>, current as an Arch<sup>5</sup> The software repositories extra large

e D e D

All I wanna have, All I wanna have, oh
e D H

All I wanna have is a new PC

e

with everything at once

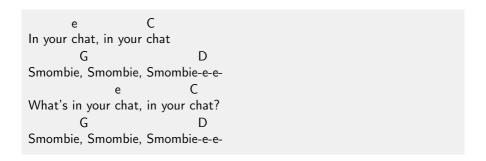
GEHT EIN GRAPH IN DIE DISCO. SAGT DER TÜRSTEHER: SO UNGERICHTET KOMMST DU HIER NICHT REIN.

<sup>&</sup>lt;sup>3</sup>Spitzname des Höchstleistungsrechenzentrums Stuttgart (2015 in Betrieb genommen, zu dieser Zeit schnellster deutscher Rechner)

<sup>&</sup>lt;sup>4</sup>Linux-Distribution; gilt als sehr stabil, aber langsam bei Neuerungen

<sup>&</sup>lt;sup>5</sup> Rolling Release-Linux-Distribution mit hochaktuellen, aber gelegentlich instabilen Paketen

Smomble			Original:
	G	D	The Cranberries – Zombie
e C	G	D	Text:
Another smartphone purchased	d, child is slov	wly taken	Dominik Schreibe
e C	G	D	
and the texting causes silence,	who are we	mistaken	
е		С	
But you see they're not free, t	hey're chaine	d to their IP	
G	D		
in their chat, in their chat they	are smiling		
е		C	
With their apps and their phone	es and their v	vatch and th	ieir apps
G	D		
in the stores in the stores they	are buying		



Another super-trendy octacore takes over When the hightech causes silence, we must be mistaken

It's the same old theme that Steve Jobs has foreseen in the stores, in the stores they are buying With their apps and their phones and their watch and their apps in their chat, in their chat they are smiling

What's in your chat, in your chat?
Smombie, Smombie-e-eWhat's in your chat, in your chat?
Smombie, Smombie-e-e-

#### You Are The Best Phone

Original:

Stevie Wonder – You are the sunshine of my life Text:

C F e Bb° Daniela Nicklas (2010)

You are the sunshine of my life

d7 G7 C d7 G7

That's why I'll always keep you on,

C F e Bb°

You are the apple of my eye,

d7 G7 C d7 G7

Forever you'll stay in my palm.

C F  $C^{\Delta}$  F I feel like touching you is heaven,

 $\mathsf{C}^\Delta$  F h F

Though I had other phones for years,

A D E a

And if your battery is ending,

D7 G7

I'd find myself drowning in my own tears

You are the best phone of my life That's why I'll always keep you on, You are the apple of my eye, Forever you'll stay in my palm.

You must have known that I was lonely, Because you linked me to Facebook, too And I know million friends are close to me, How could so much power be inside of you?

You are the best phone of my life That's why I'll always keep you on, You are the apple of my I-phone Forever you'll stay in my palm.

# Applaus, Applaus

Original:

G D e Sportfreunde Stiller – Applaus, Applaus
Text:
Ist meine Schleife ohne Abbruch
Empfiehlst du "Break"

G D e

Und reduzierst Komplexität

Du gibst Best Practise mit Bedacht für jeden Code

G D e

Bist für den Programmierer täglich Brot

C e G D

Applaus, Applaus für deine Sorte
C e G D

Mein Herz geht auf mit "Copy-Paste"
C e G D

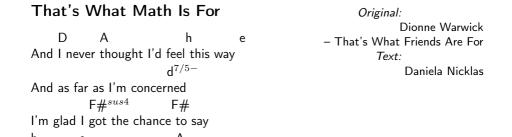
Stack Overflow, du hilfst mir, meinen Code zu schreiben
C e

Hör niemals damit auf!
G D

Ich wünsch mir so sehr, niemand kauft dich jemals auf

Macht meine Klasse großen Unsinn, kriegst du sie wieder hin Zeigst mir auf schlaue Art und Weise, was "private" heißt Und ist mein Java out of Memory trotz großem Heap Kennst du die Stellen, wo mein Speicher blieb

C e G D
Applaus, Applaus für deine Sorte
C e G D
Mein Herz geht auf mit "Copy-Paste"
C e G D
Stack Overflow, du hilfst mir, meinen Code zu schreiben
C e
Hör niemals damit auf!
G D
Ich wünsch mir so sehr, niemand kauft dich jemals auf



And if math should ever go away / Well then close your eyes and try To think the way we do today / And then if you can't remember . . .

D A Keep smiling, and deriving G A f# h Knowin' you can always count on proofs , for sure G A That's what math is for D A To find primes, for bad times C H  $A^{5-}$   $A^{sus4}$  A It'll be in your keys forever more — That's what math is for

D A h e  ${\rm d}^{7/5-}$  Understand complexity F# $^{sus4}$  F# And now there's so much more I see h e A And so by the way I thank you . . .

That I do believe you need it

Ohhh and then when your code falls all apart Well just close your eyes and know This problem is just NP hard And then if you can't remember . . . Ohhhhh

Refrain

# Word User Trying TFX

d G a I like my office as a WYSIWYG $^6$  d G a I don't compile, I click "Export" d G a Prefer the "Bold" button to backslash textbf d G a I'm a Word user trying TFX  $^7$ 

See me dabbling with the many tags A giant cheat sheet by my side What are those commands and these flags? I'm a Word user trying TEX

d G e a
(Ooooooh) I'm an alien I'm a freakin' alien
d e a
I'm a Word user trying TEX
d G e a
(Ooooooh) I'm an alien I'm a freakin' alien
d e a
I'm a Word user trying TEX

Original: Sting – Englishman In New York

Text:

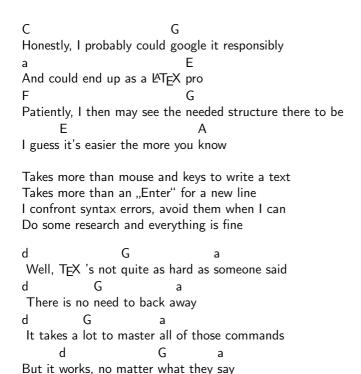
Dominik Schreiber

If TEX is just as good as someone said I don't know how it is used It takes a long, long time until I got some text It's so hard, no matter what they say

#### Refrain

<sup>&</sup>lt;sup>6</sup> What You See Is What You Get (Unmittelbare Echtbilddarstellung)

<sup>&</sup>lt;sup>7</sup>Auszusprechen wie tech, nicht teks



Yeah it works, no matter what they say It works fine, no matter what they say It works well, no matter what they say

Refrain

d G e a

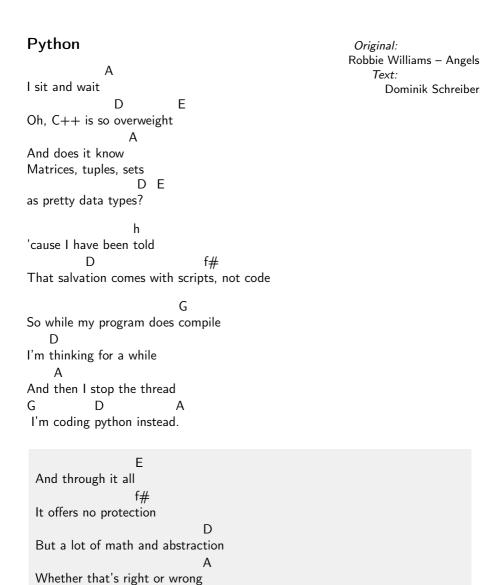
Aaaah – That's what dollars means, all the code is clear to me,

d G a

With some backslashes it will work
d G e a

Aaaah – It's compiling now, what a pretty document
d G a

The most beautiful thing I've seen.



_
E
And with the method call
f#
Whatever args receiving
D
The program is achieving
A/C#
What I wanna do
G
It won't forsake me
G D A
I'm coding python instead

Python types are slack And the NoneType apparently cannot quack<sup>8</sup> I'm writing fast The execution time is pretty decent, too

And as the feeling grows That it works fine, I suppose Compilation seems dead I'm coding Python instead

2x Refrain

<sup>&</sup>lt;sup>8</sup>Duck Typing; Typen werden nur durch das Vorhandensein bestimmter Attribute oder Methoden ("object.quack()") beschrieben. Erhält ein Objekt wegen eines Fehlers den Wert None, wird dies oft erst bemerkt, wenn versucht wird, darauf Aktionen auszuführen. Die Fehlermeldung lautet dann dass für NoneType diese Aktion undefiniert ist.

# Tux, The Magic Penguin

G h C G
Tux, the magic penguin lived by a tree
a G
with thousand branches, leaves and nodes
A D
all open source and free,
G h
Many branches flourished
C G
some of them, they grew
a G
others withered, growing old
a D G
replaced by something new.

Original:
Peter, Paul & Mary
Puff, The Magic Dragon
Text:
Dominik Schreiber

Tux, the magic penguin lived by a tree with thousand branches, leaves and nodes all open source and free, Tux, the magic penguin lived by a tree with thousand branches, leaves and nodes all open source and free.

Tux had a companion who was a little GNU In Unity<sup>9</sup>, they went along did what they wanted to.
They met a green chamaeleon and Suse<sup>10</sup> was its' name they drank delicious Mate<sup>11</sup> tea and played some freeware game.

#### Refrain

<sup>&</sup>lt;sup>9</sup>Desktopumgebung von Canonical für Ubuntu-Systeme

<sup>&</sup>lt;sup>10</sup>openSUSE: Linux-Distribution mit einem Chamaeleon-Maskottchen

<sup>&</sup>lt;sup>11</sup>Desktopumgebung, u.A. in Linux Mint

A hairy guy called Richard, idealist and tough, he interjected and remarked, "'Free of charge' is not enough!"
He told the friends to quickly get rid of all the things That weren't Libre Open Source "You'll be Free", the man still sings. 12

#### Refrain

Tux looked through a window Weirdly shaped as 'X'<sup>13</sup>, The old thing just should be replaced By something less complex This task did seem so easy But wasn't quite as planned It took at least some more decades 'Til there was a way to land<sup>14</sup>.

#### Refrain

Mascots live forever but not so human devs Their chief, called Linus, screamed at all who'd make a kernel mess Some became offended and didn't want no more But Tux will surely overcome, as fork or with the core.

#### Refrain

 $<sup>^{12}</sup> Richard \ Stallman \ Free \ Software \ Song: \ https://youtu.be/9sJUDx7iEJw$ 

<sup>&</sup>lt;sup>13</sup>X Window Server: Protokoll für die Darstellung grafischer Oberflächen bei Linux-Systemen, mittlerweile als veraltet angesehen

<sup>&</sup>lt;sup>14</sup>Wayland: neues Protokoll für grafische Oberflächen, das X ablösen soll

#### Bonus I: Volker Claus

"Wenn Sie mich jetzt noch stoppen wollen, müssen Sie schnell sein."

Zu einem Geburtstagsfest von Prof. Volker Claus (2009)

Original:

Reinhard Mey - Annabell, ach Annabell

Text:

Daniela Nicklas

Volker Claus, ach Volker Claus, da ist er schon wieder zur Türe raus Er ändert alles for the best, lebt einfach schneller als der Rest Volker Claus, ach Volker Claus, was denkt er sich jetzt schon wieder aus? Vielleicht bleibt uns nur ein Moment, bevor er wieder weiterrennt

Ich kenne ihn noch als Dekan, Sie glauben kaum, was nur ein Mann in einer jungen Fakultät bewegen kann – es ist nie zu spät Allen hat er oft erklärt, wie das ist mit dem Curricularnormwert Ε Der der Wirklichkeit nicht wirklich entspricht, nur zu ändern war der wirklich nicht

Volker Claus, ach Volker Claus, wie hielt das nur Frau Volkert aus? Vermutlich hatte sie fünf Kalender und Diktiergeräte mit Endlosbändern. Volker Claus, ach Volker Claus, was denkt er sich jetzt schon wieder aus? Vielleicht bleibt uns noch ein Moment bevor er wieder weiterrennt

Aus Oldenburg komm ich grad her, da schätzt man Volker Claus auch sehr Als Geburtshelfer für Lehrerlehre, das ist uns eine große Ehre! Dann gab es auch noch eine Zeit, wo ein dickes Buch er schreibt und schreibt und fragt man ihn: was schreibst Du denn da? "Na, den Duden Informatika!"

Volker Claus, ach Volker Claus, da ist er schon wieder zur Türe raus Ein Lehrer ruft: "Nur einen Moment, bevor bei uns die Schule brennt!" Volker Claus, ach Volker Claus. Was zieht er da aus der Tasche raus? Den Schülerduden, halb so dick, doch voller Ein-, Aus-, Durchblick.

Kennen Sie das TSP? Das Traveling-Santa-Claus-Problem?

Das löst er immer rasend schnell, dabei ist das nicht-polynomiell!

Doch nicht nur zu Nikolaus vertrauen die Hörer Dr. Claus
eine glatte Eins in der Evaluation in Theorie und Praxis! Wer schafft das schon??

Volker Claus, ach Volker Claus. Ich fürchte, jetzt geht mir der Atem aus So vieles könnt ich noch besingen wenn wir nicht hinterm Zeitplan hingen Volker Claus, ach Volker Claus, da ist er schon fast wieder zur Türe raus Doch heute hier, das ist sein Fest, da halten wir ihn einfach fest.

WARUM TRAGEN INFORMATIKER IMMER NUR SCHUHE MIT KLETTVERSCHLUSS?

. . .

SIE HABEN ANGST VOR ENDLOSSCHLEIFEN.



[root@inf-stgt]# songbook/run --about

SoundsOutOfBounds. Wiederverwendbare Liedermodule

Ein Informatik-Liederbuch, herausgegeben von der Fachschaft für Informatik und Softwaretechnik. 2015-2016, Universität Stuttgart

Titelblatt, Layout Dominik Schreiber

Ideen und Texte Tobias Beeh

Heiko Geppert Tobias Klotz Clemens Lieb Daniela Nicklas Simon Reiß

Dominik Schreiber

Besonderen Dank an Dirk Pflüger,

für die initiale Idee

rhymezone.com,

für viele Reimvorschläge

twitter.com/internetofshit, für IoT-Inspirationen

Kollaborative Arbeit mit Googledocs Satz und Layout mit LaTeX, Synchronisierung durch Overleaf

Die Herausgeber haben keinerlei Rechte an den erwähnten Original-Liedern. Es wird lediglich empfohlen, unter welchen Melodien die neuen Texte gesungen werden können.

Die Inhalte des Buchs dürfen, soweit im Rahmen der Originaltexte zulässig, unter den Bedingungen der Creative Commons Attribution-NonCommercial-ShareAlike 4.0 International (CC BY-NC-SA 4.0) Lizenz verwendet werden.

[root@inf-stgt]# poweroff