Stop Crashing Already!!!

Bugs, bugs everywhere
The Cycle of Life

- Fork
- Crash
- Fork
Workflow

- Segfault
- Kcrash intercepts signal
- Launches drkonqi
- Drkonqi attaches gdb
- Gdb spits out trace
- User files bug report
KDE Software

- Crashes
- Bugzilla
- Sad User
- Sad Devs
Dr Konqi

KWrite Closed Unexpectedly
Please report this error to help improve this software.

Report Bug  Restart App
Oof

Backtrace:

```
#4 0x00007f78e84b8b3c in ?? () from /lib/x86_64-linux-gnu/libKF5KIOFileWidgets.so.5

The backtrace is not complete. You need to install debuginfo for kio
```
Problems

User Action
We all are lazy

Debug Symbols
Hello Manjaro!

Reliability
JIT Debugging has its challenges
Debug Later: coredumpd

Systemd Also Catches Crashes???

System-Level Core Handler

Disk Usage Limits

Metadata
Limited but available

Other Awesome Stuff
One Server to Debug Them all, One Server to Find Them, One Server to Bring Them all and in Symbols Bind Them
Industry

Calls Home

Automatic

Statistics
Introducing: 
Sentry
Symbolication
Automatically resolve frames using debug symbols via debuginfod

Event Aggregation
Events that “look” similar enough get grouped together into the same Crash

Metadata
Track distros and versions affected

Other Awesome Stuff
Release health detection, regression detection, gitlab integration, and so and so forth
DEMO TIME
Bonus: GDB Python Scripting is AMAZING
Thank You