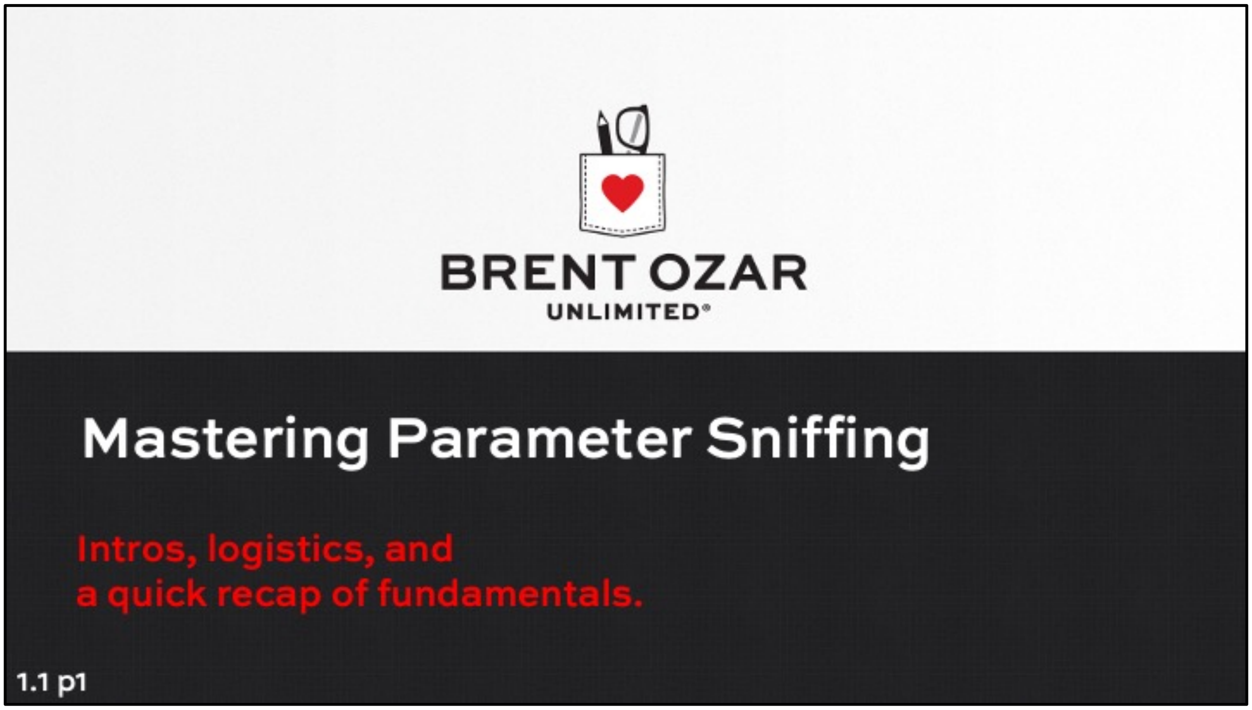
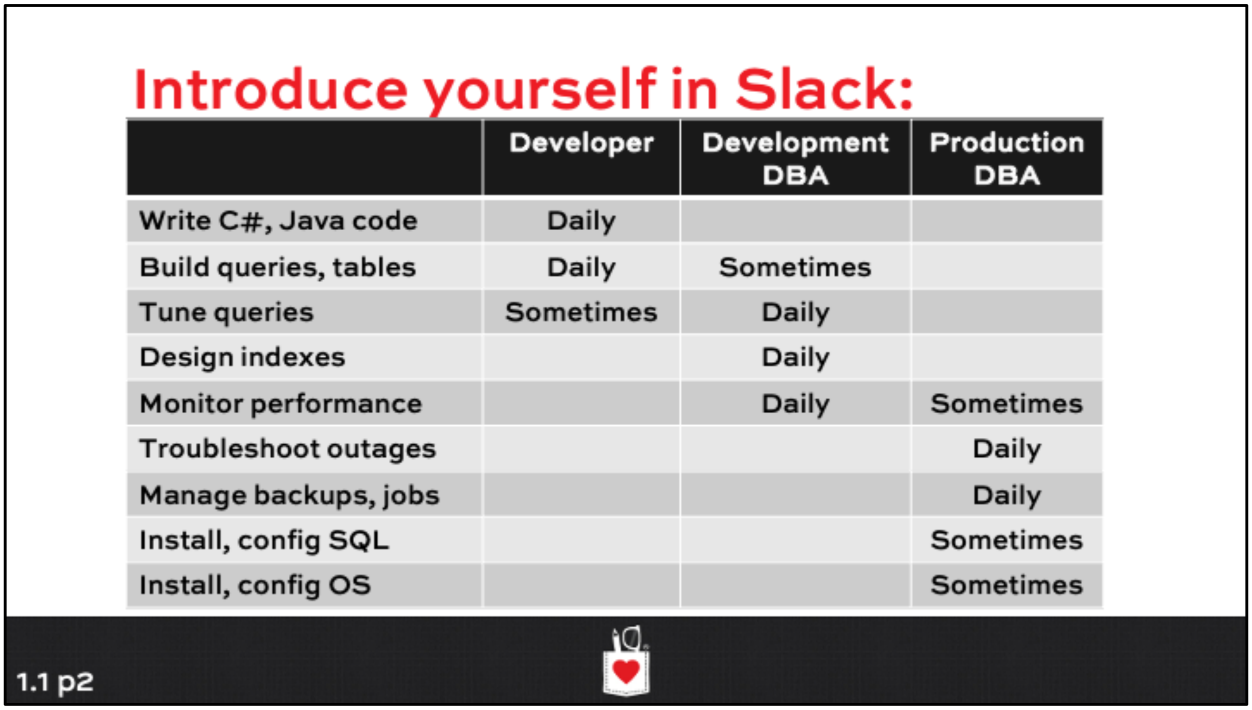

BRENT OZAR
UNLIMITED®

# Mastering Parameter Sniffing

Intros, logistics, and
a quick recap of fundamentals.

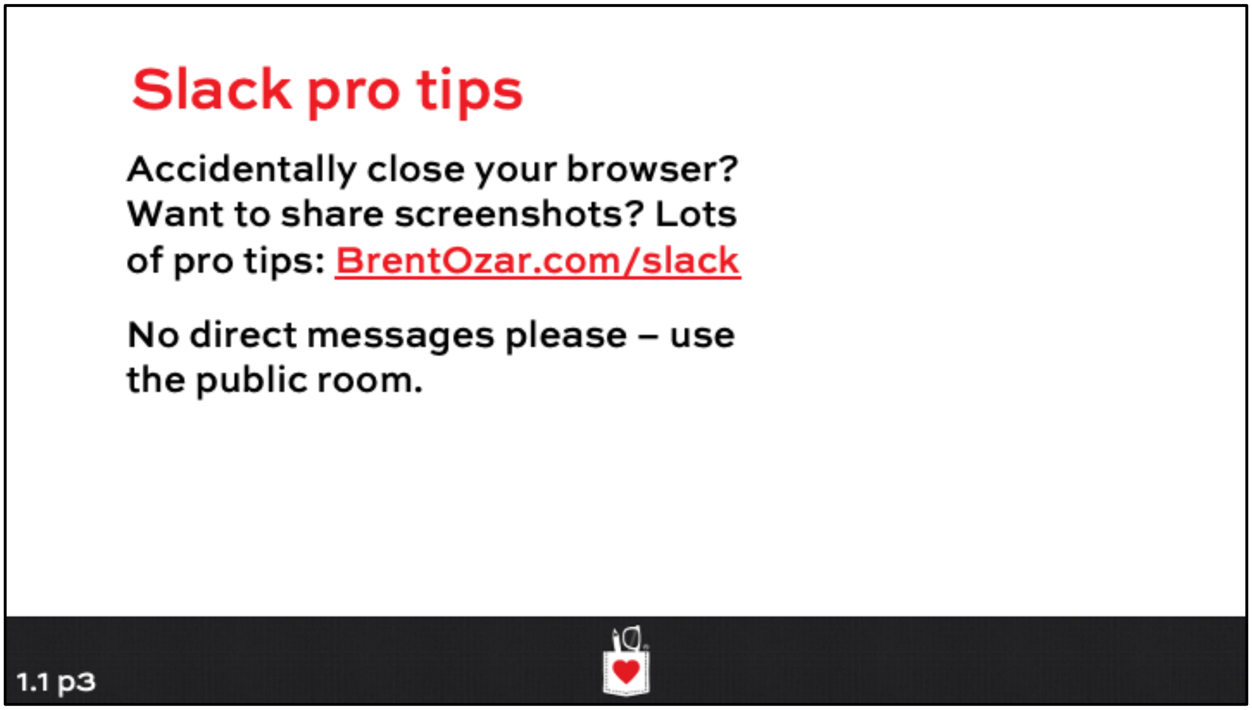
1.1 p1



## Introduce yourself in Slack:

| | Developer | Development DBA | Production DBA |
|---|---|---|---|
| Write C#, Java code | Daily | | |
| Build queries, tables | Daily | Sometimes | |
| Tune queries | Sometimes | Daily | |
| Design indexes | | Daily | |
| Monitor performance | | Daily | Sometimes |
| Troubleshoot outages | | | Daily |
| Manage backups, jobs | | | Daily |
| Install, config SQL | | | Sometimes |
| Install, config OS | | | Sometimes |

1.1 p2

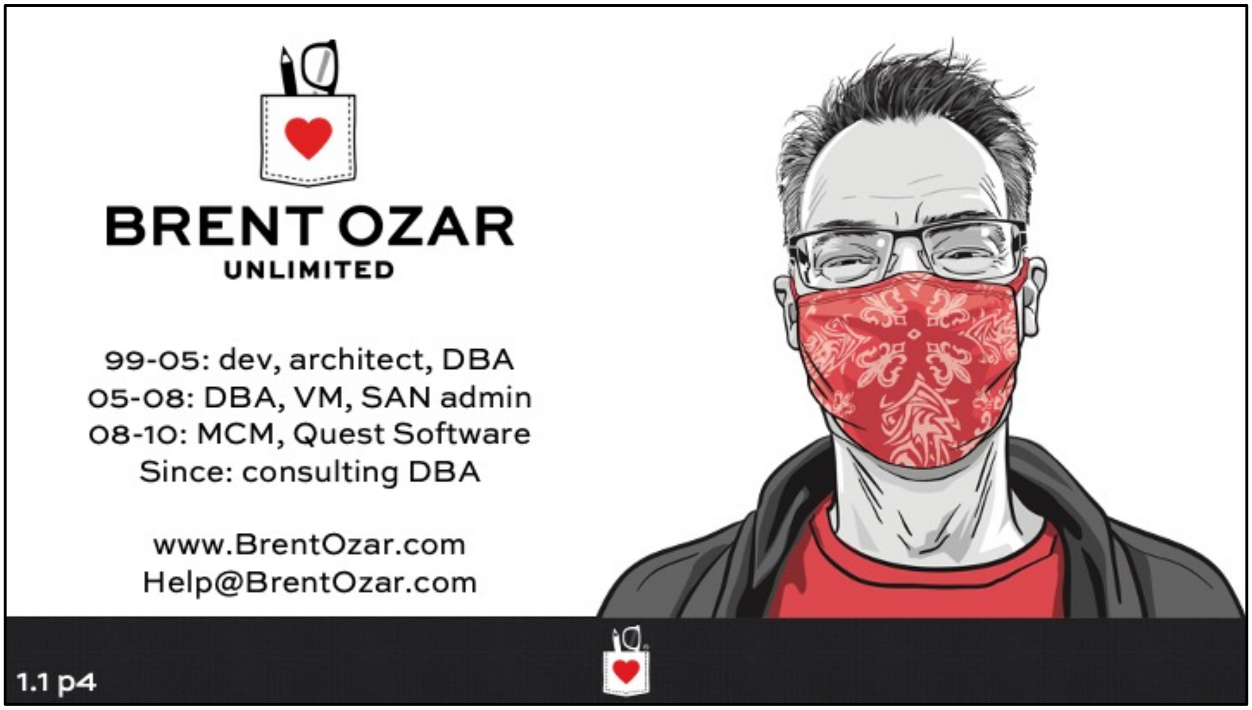


## Slack pro tips

Accidentally close your browser? Want to share screenshots? Lots of pro tips: BrentOzar.com/slack

No direct messages please – use the public room.

1.1 p3



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99-05: dev, architect, DBA
05-08: DBA, VM, SAN admin
08-10: MCM, Quest Software
Since: consulting DBA

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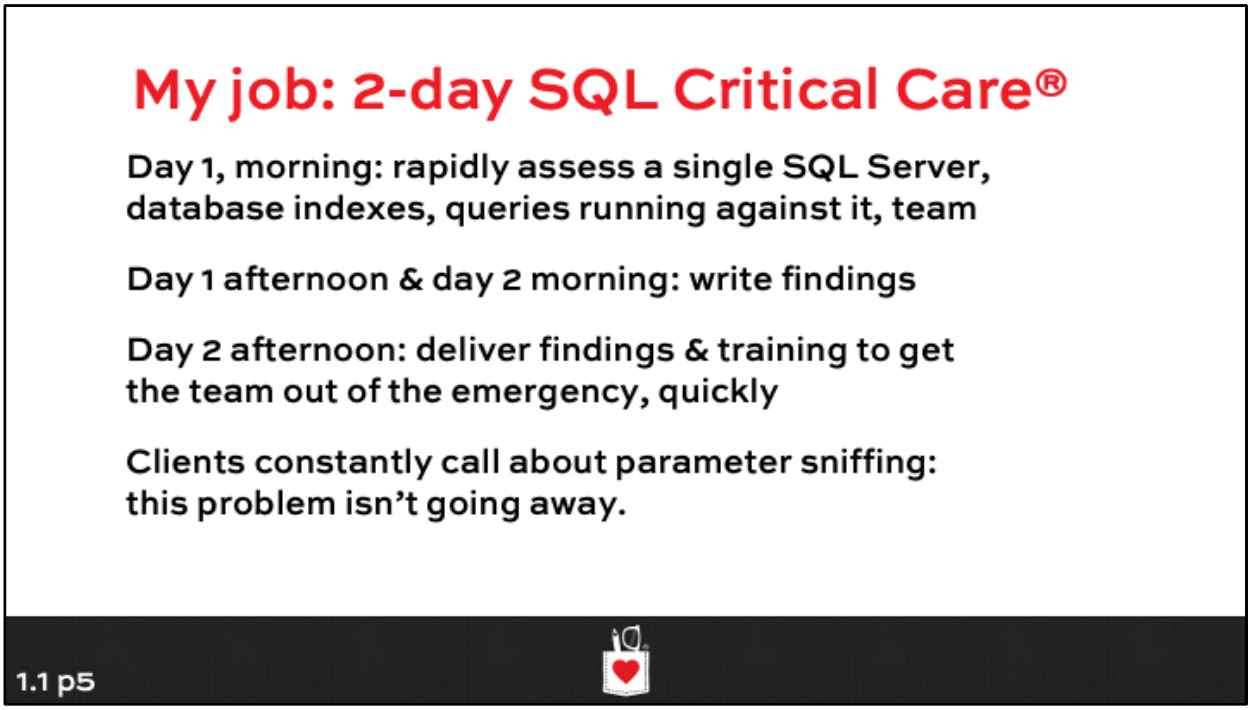
1.1 p4



## My job: 2-day SQL Critical Care®

Day 1, morning: rapidly assess a single SQL Server, database indexes, queries running against it, team

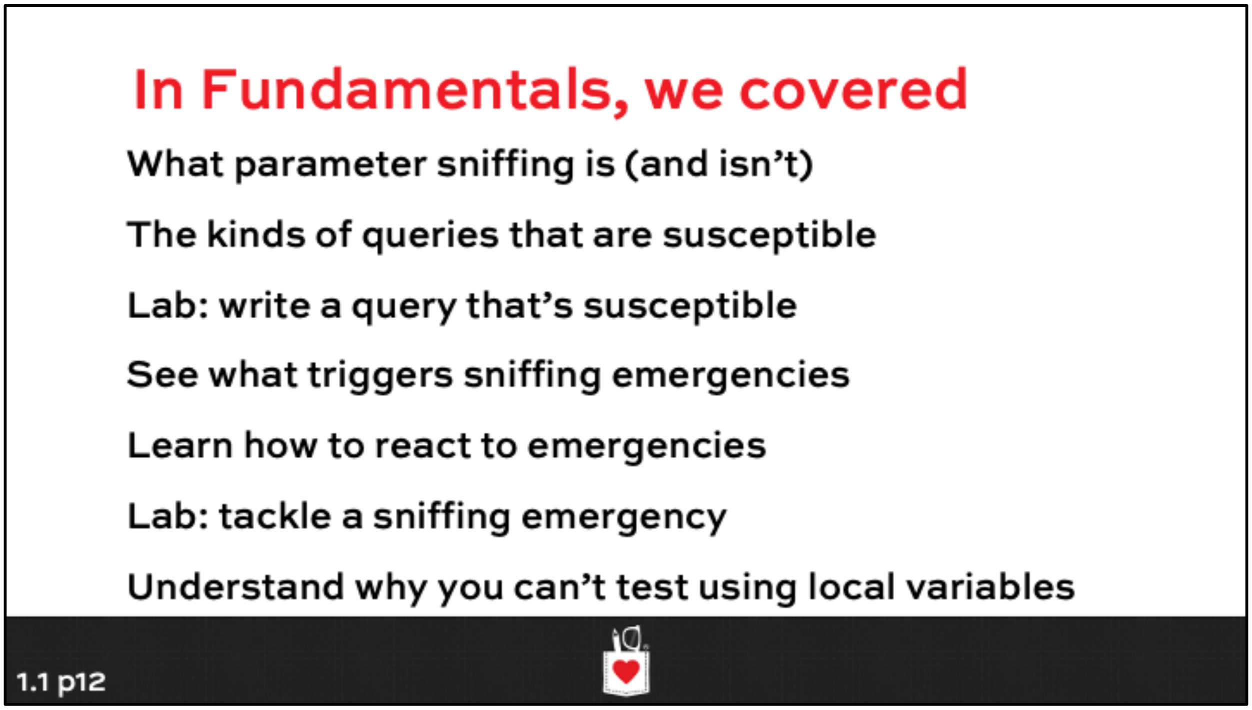
Day 1 afternoon & day 2 morning: write findings

Day 2 afternoon: deliver findings & training to get the team out of the emergency, quickly

Clients constantly call about parameter sniffing: this problem isn't going away.

1.1 p5

# Recapping the Fundamentals



## In Fundamentals, we covered

What parameter sniffing is (and isn't)

The kinds of queries that are susceptible

Lab: write a query that's susceptible

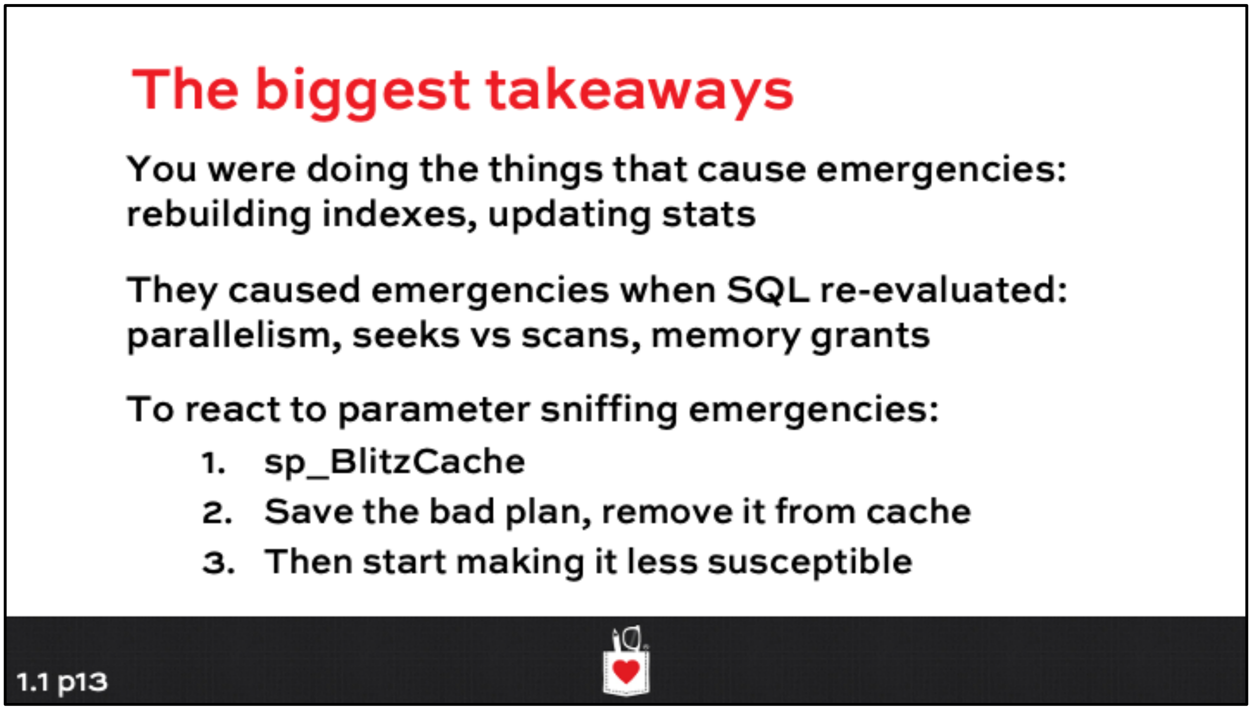
See what triggers sniffing emergencies

Learn how to react to emergencies

Lab: tackle a sniffing emergency

Understand why you can't test using local variables

1.1 p12



## The biggest takeaways

You were doing the things that cause emergencies: rebuilding indexes, updating stats

They caused emergencies when SQL re-evaluated: parallelism, seeks vs scans, memory grants

To react to parameter sniffing emergencies:

1. sp_BlitzCache
2. Save the bad plan, remove it from cache
3. Then start making it less susceptible

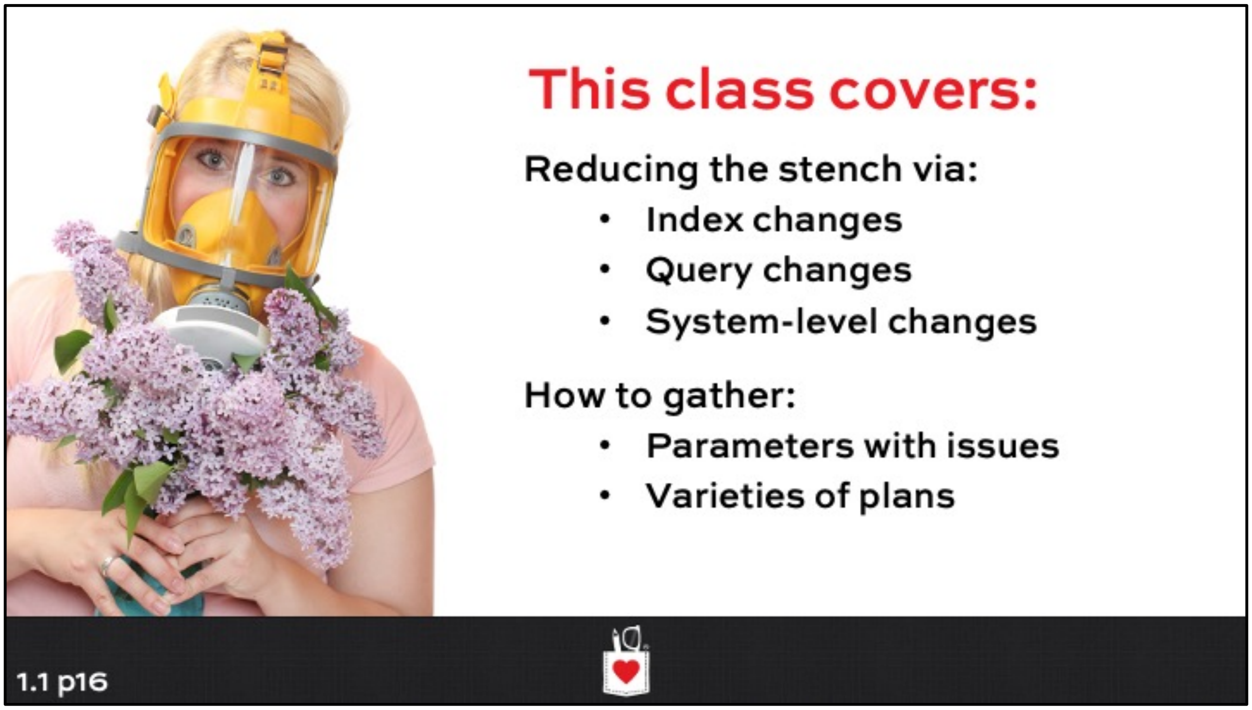
1.1 p13

# Parameter sniffing rarely goes away.

1.1 p14

We just use tools to reduce the effects.

1.1 p15



## This class covers:

Reducing the stench via:

- Index changes
- Query changes
- System-level changes

How to gather:

- Parameters with issues
- Varieties of plans

1.1 p16

# To the demos!

1.1 p17