Teaching Scala to the Statically Challenged

Scala Days New York 2018
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Rebecca Ely
@0hrely

TechAtBloomberg.com

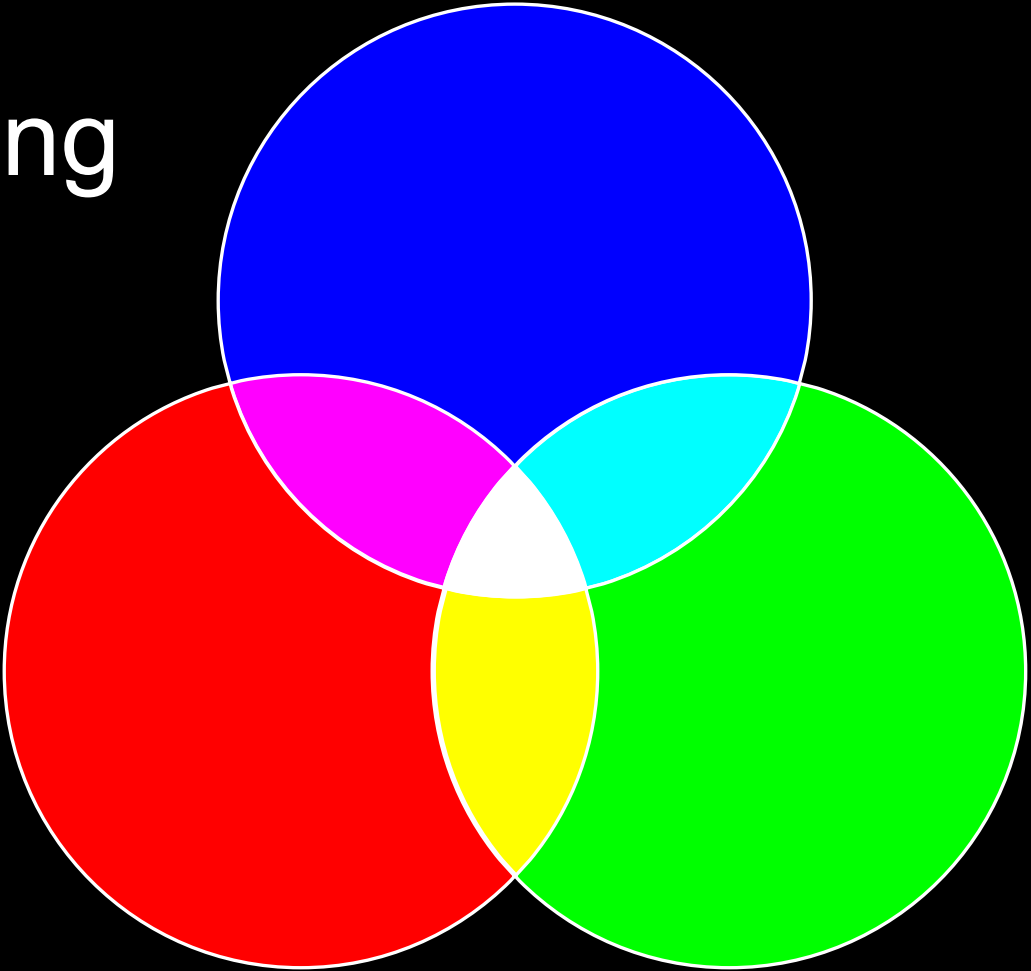**Bloomberg**
Engineering

Filling the gaps

Teaching

Trailblazers

Scala

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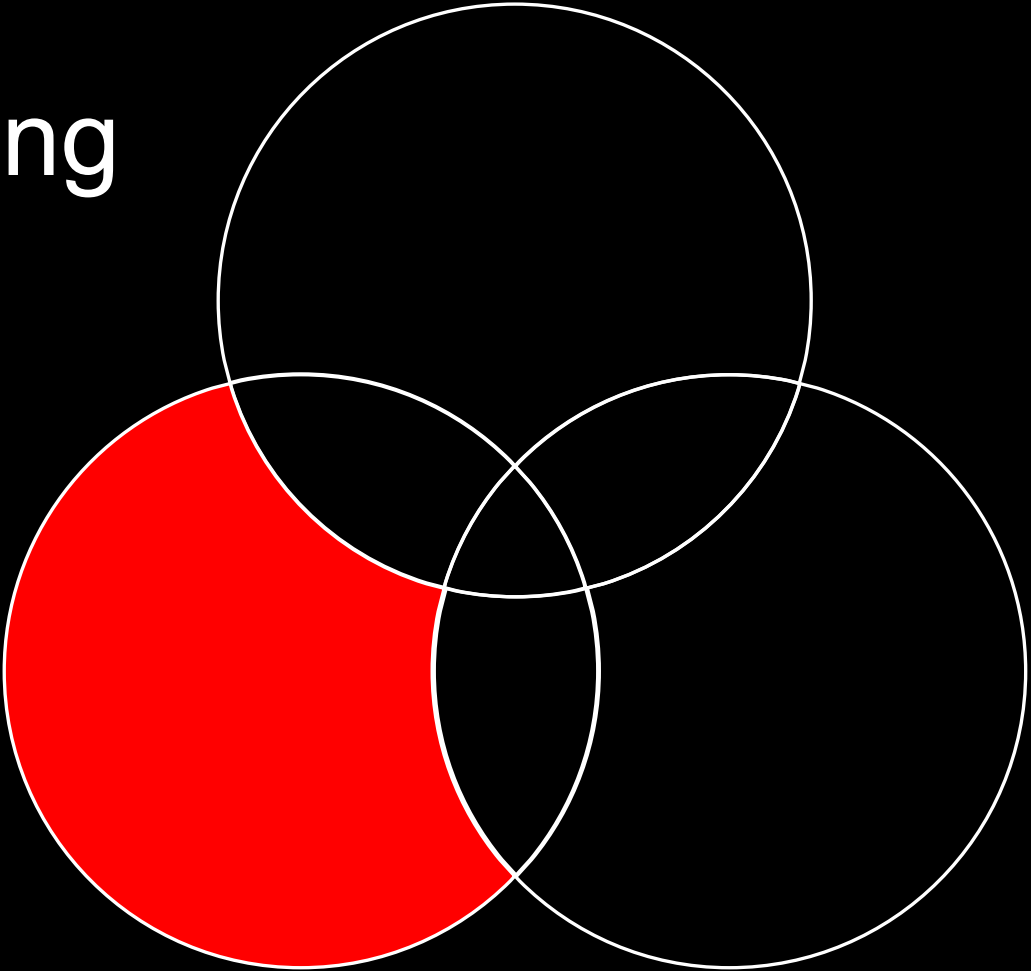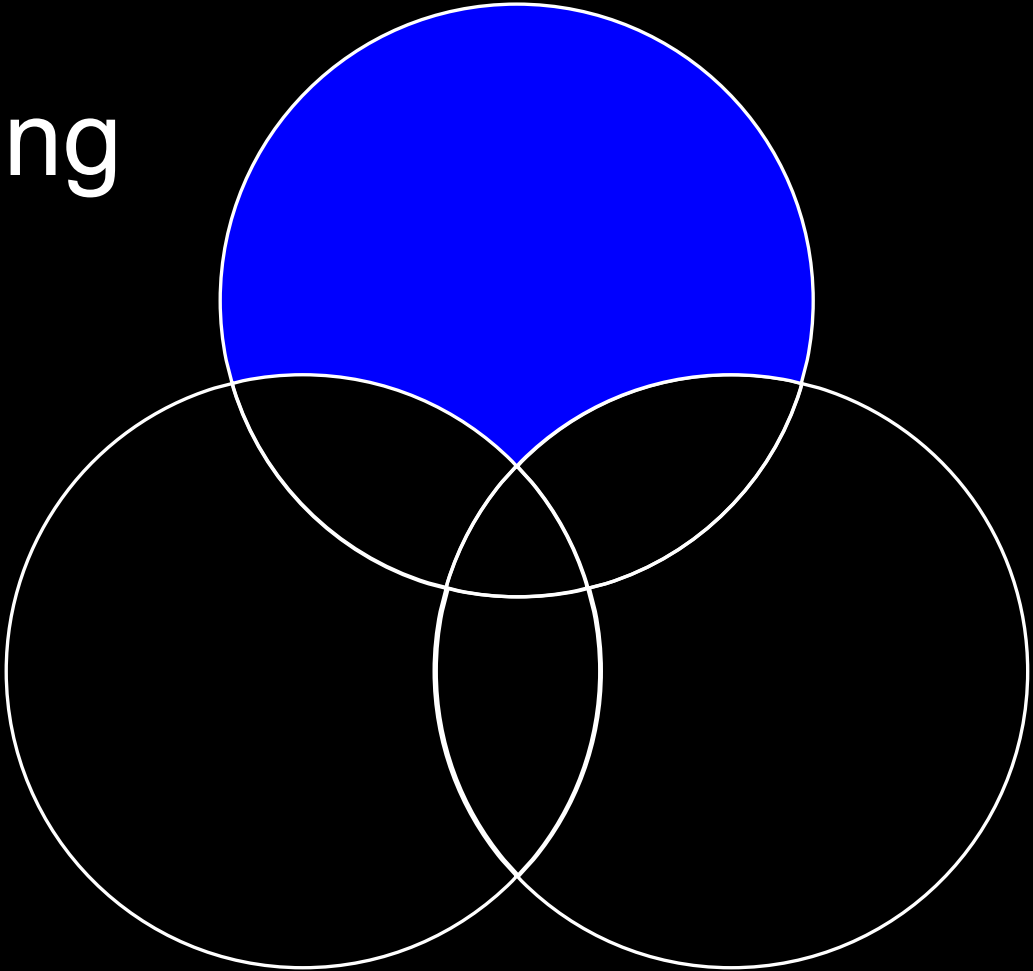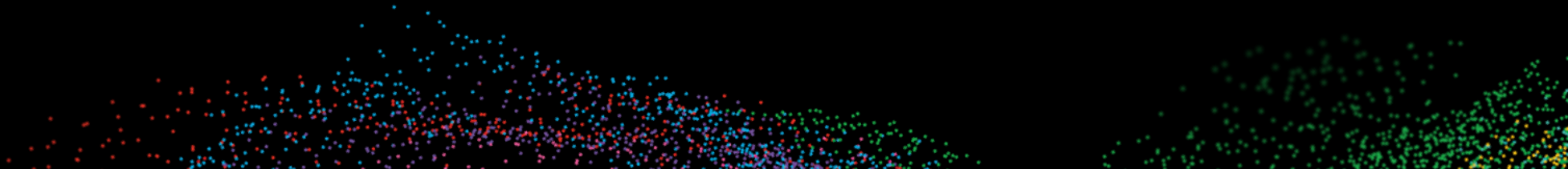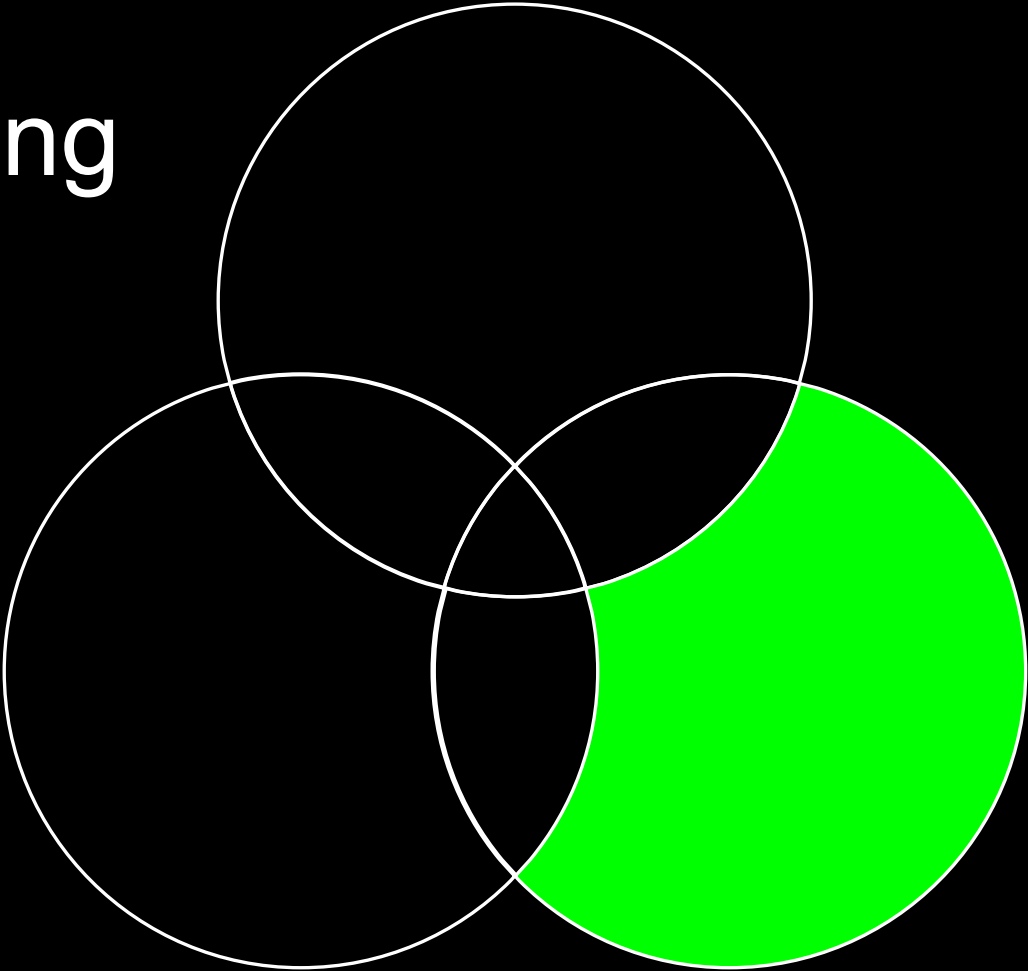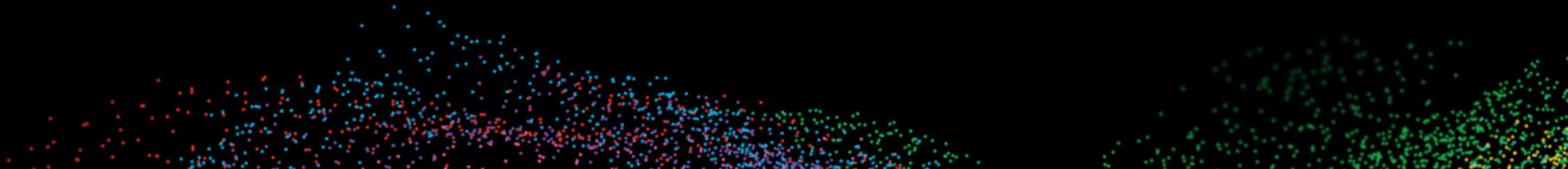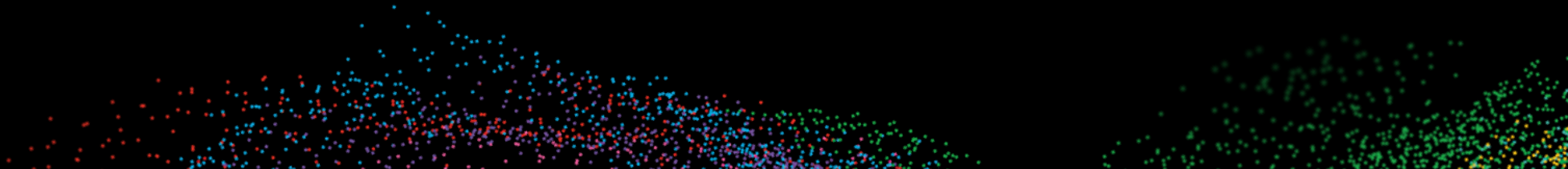
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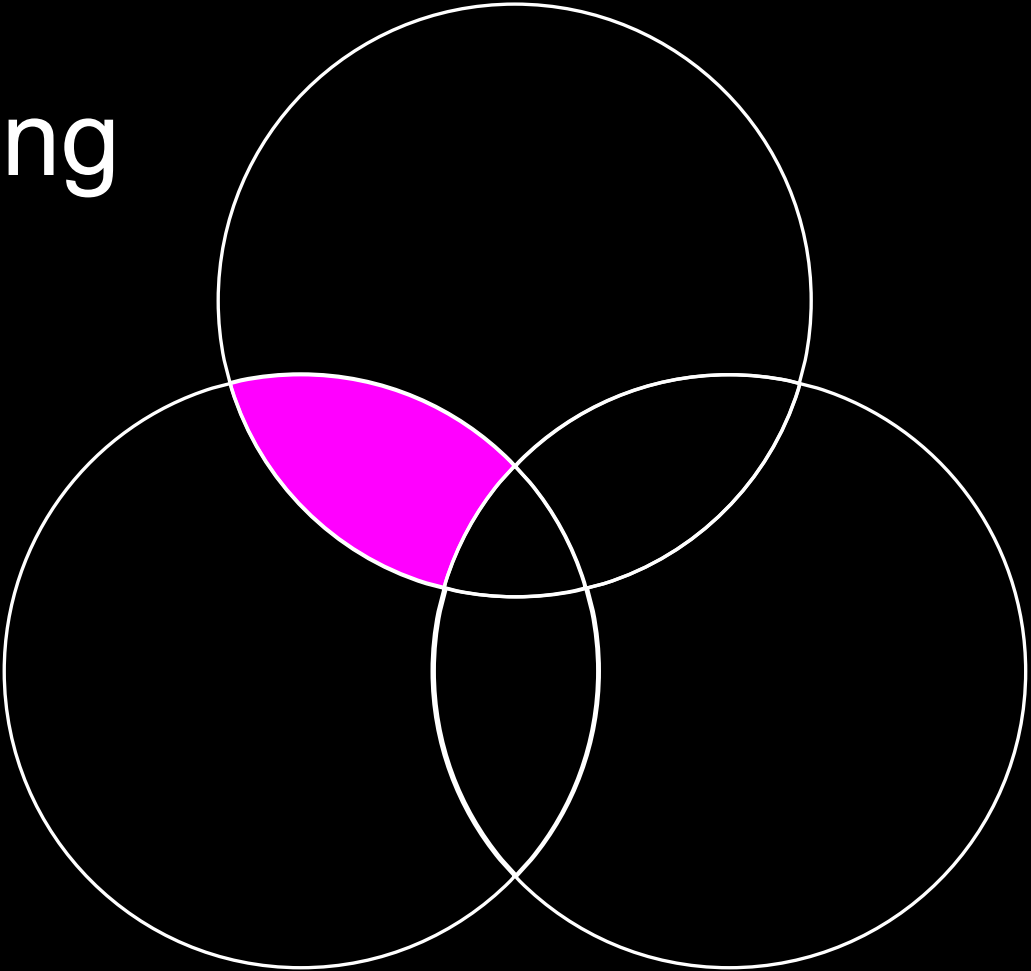
Scala

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Why *these* software engineers?

@l_kang
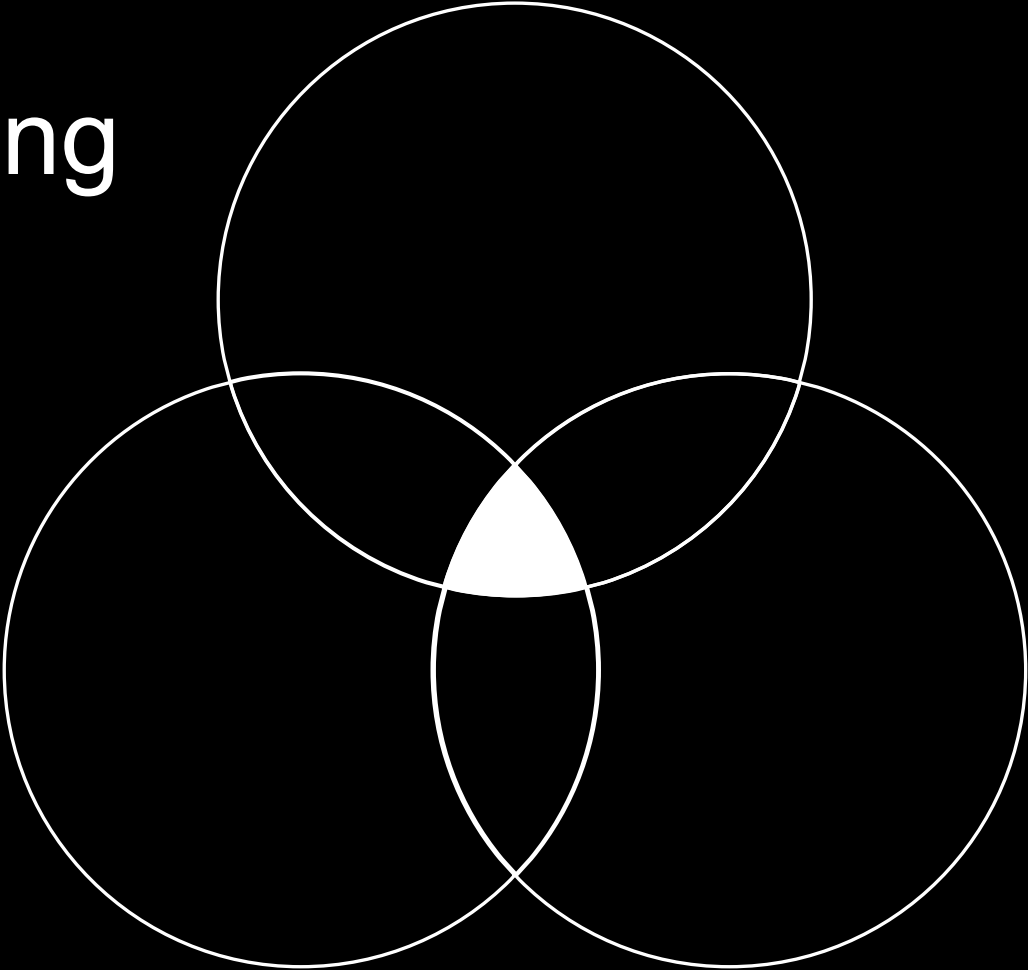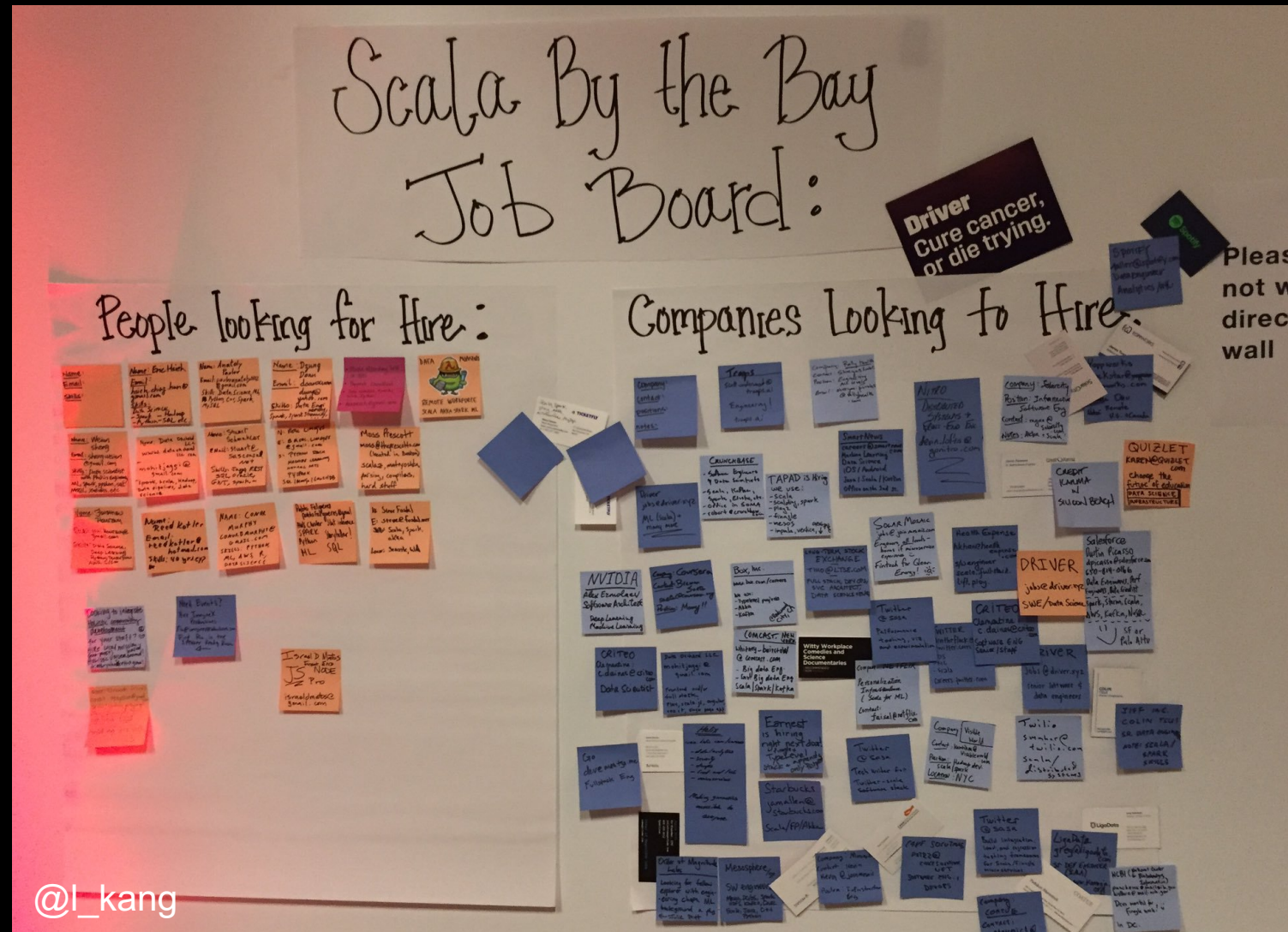
Why *these* software engineers?

For you	🏆 Rewarding 🏞️ Learn through beginners' eyes
For your team	🙃 Diverse experiences/perspectives 👯 Mold them in your image
For Scala	🌟 The next [your favorite Scala dev] 😳 "Silly" questions

Communication saves time

⚪ Ask how they like to learn

🙋‍♀️ Encourage questions

😅 Dialogue not monologue

⭕ Don't mistake vocab ignorance for conceptual ignorance

Structure and support

👋 Don't say "Coursera" and disappear for two weeks

💁 Dig up resources

⏳ Set project timelines

🍻 Introduce them to the community

Set the tone

🙊 Never say "just"

📈 Create positive expectations

😇 Model good code

🤷‍♀️ Don't mistake inexperience for incompetence

First projects: contain the struggle

Best
🌡️ Writing tests

Next-best
🌓 Partially-complete projects

Also great
🌶️ Warm-up exercises
🐣 Small projects

Not great
🔼 Dependency upgrades
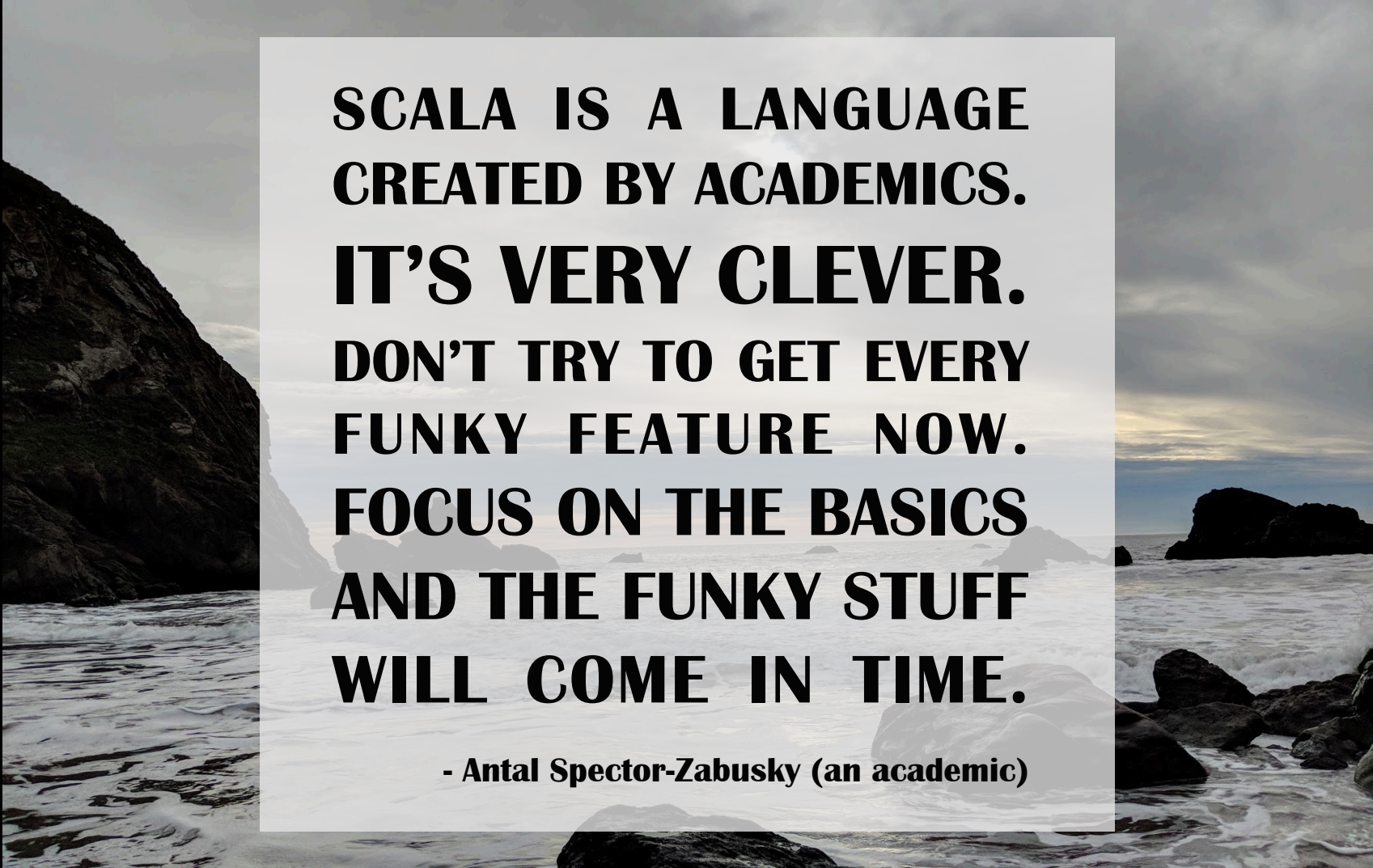🐘 Behemoth projects
🐛 Bug fixes
🙁 Concepts new to you

Start simple

SCALA IS A LANGUAGE CREATED BY ACADEMICS.
IT'S VERY CLEVER.
DON'T TRY TO GET EVERY FUNKY FEATURE NOW.
FOCUS ON THE BASICS AND THE FUNKY STUFF WILL COME IN TIME.

- Antal Spector-Zabusky (an academic)

Emphasize

🛡️ Types and type signatures

🛡️ Tools (one IDE, one build tool, one test lib)

🛡️ FP **basics**

🛡️ Vocab: Object / Class / Trait / Method / Type

🛡️ Compiler basics

🛡️ Options

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Wait for a need

⏸ Implicits

⏸ Currying

⏸ Anonymous functions

⏸ Case Classes

⏸ Recursion

⏸ Compiler intricacies

⏸ FP vocab

```
(String, Option[Int], Array[(String, List[(String, Double)])])])
```

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Learn more

🙀 github.com/ohrely/scala-basics

👩‍💻 bloomberg.com/careers

🍣 Ely

🐦 @0hrely

📪 rebaely@gmail.com

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How to pair program

👐 Hands off the keyboard

⏸️ Pause before bossing

❓ Motivational interviewing

🔬 Give the what with the how

🔁 Expect repetition

💳 Say nice things

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