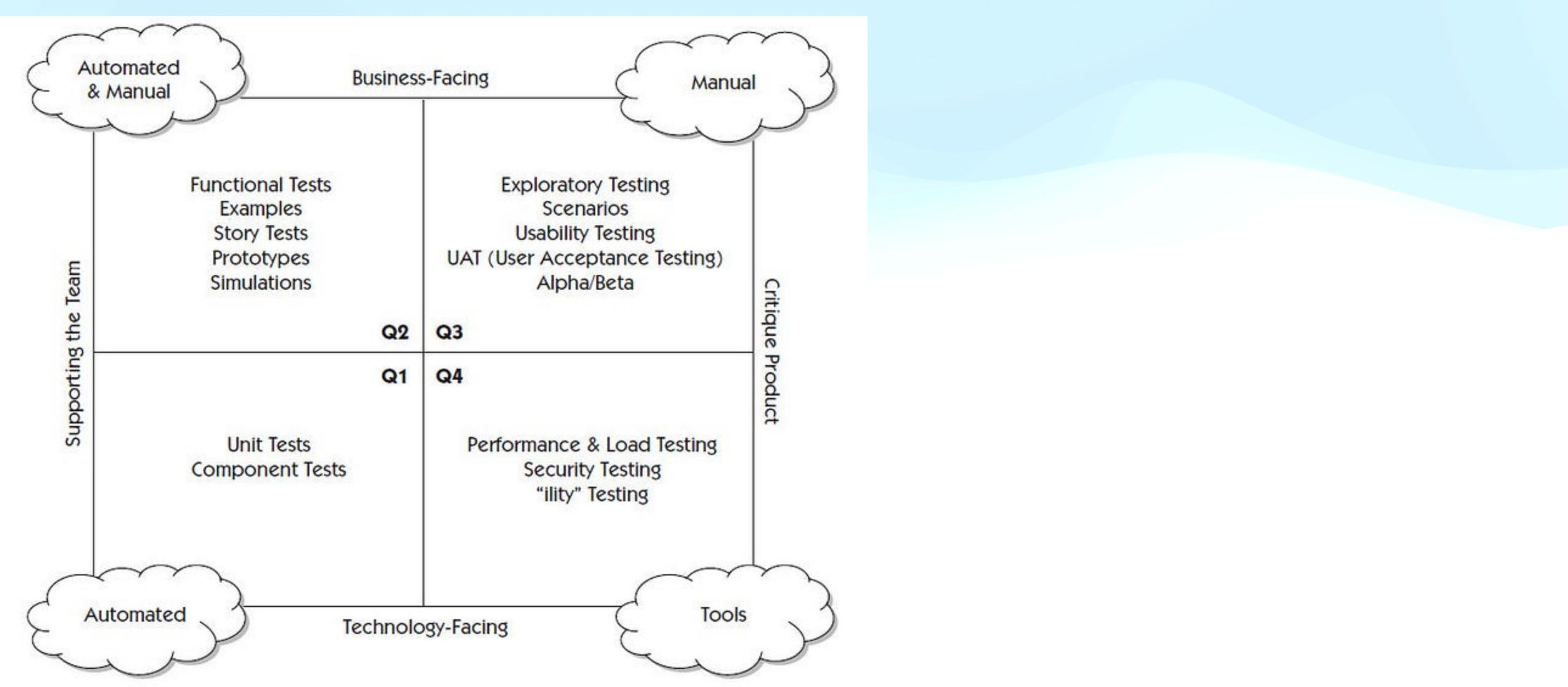
Embrace these Three Fearsome Words: Test In Production

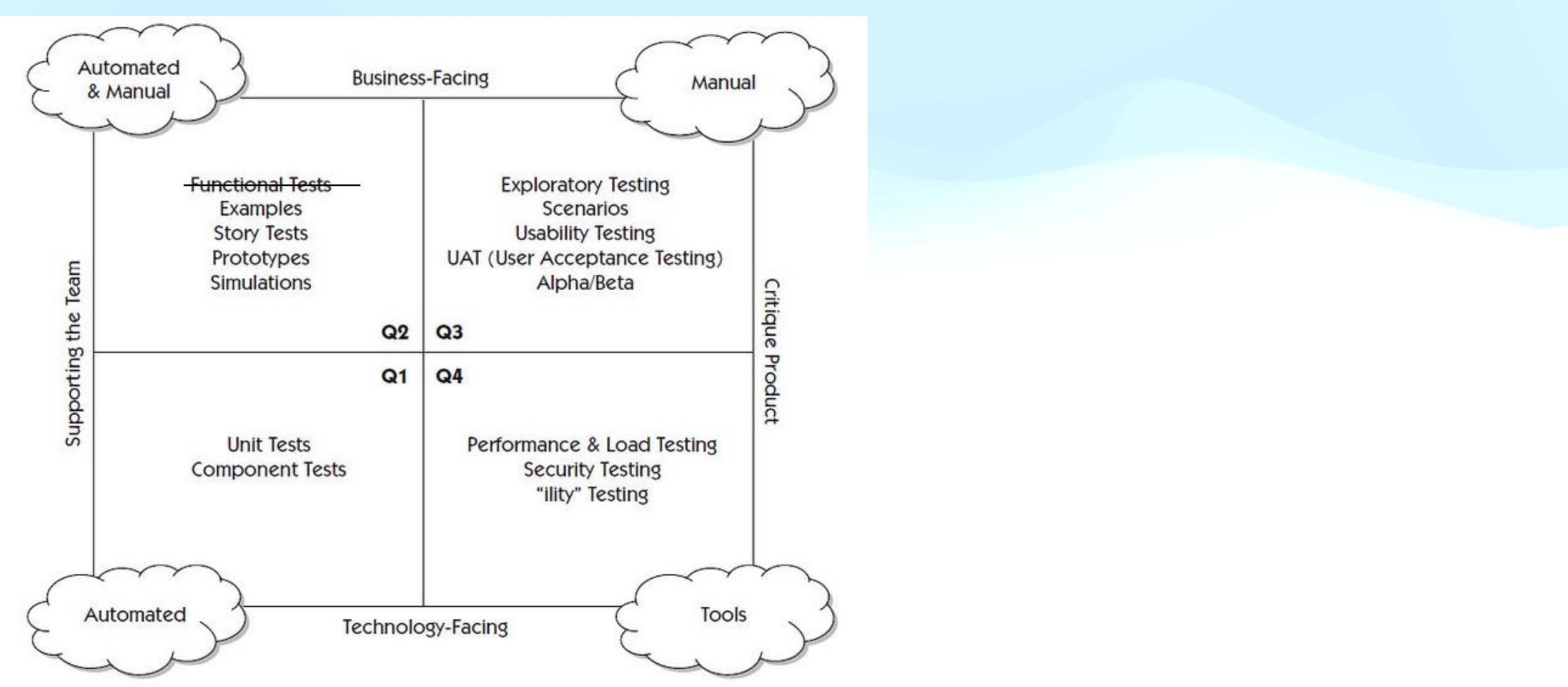
Nayan Hajratwala - nayan@chikli.com - nayan_hajratwala@mastadon.social

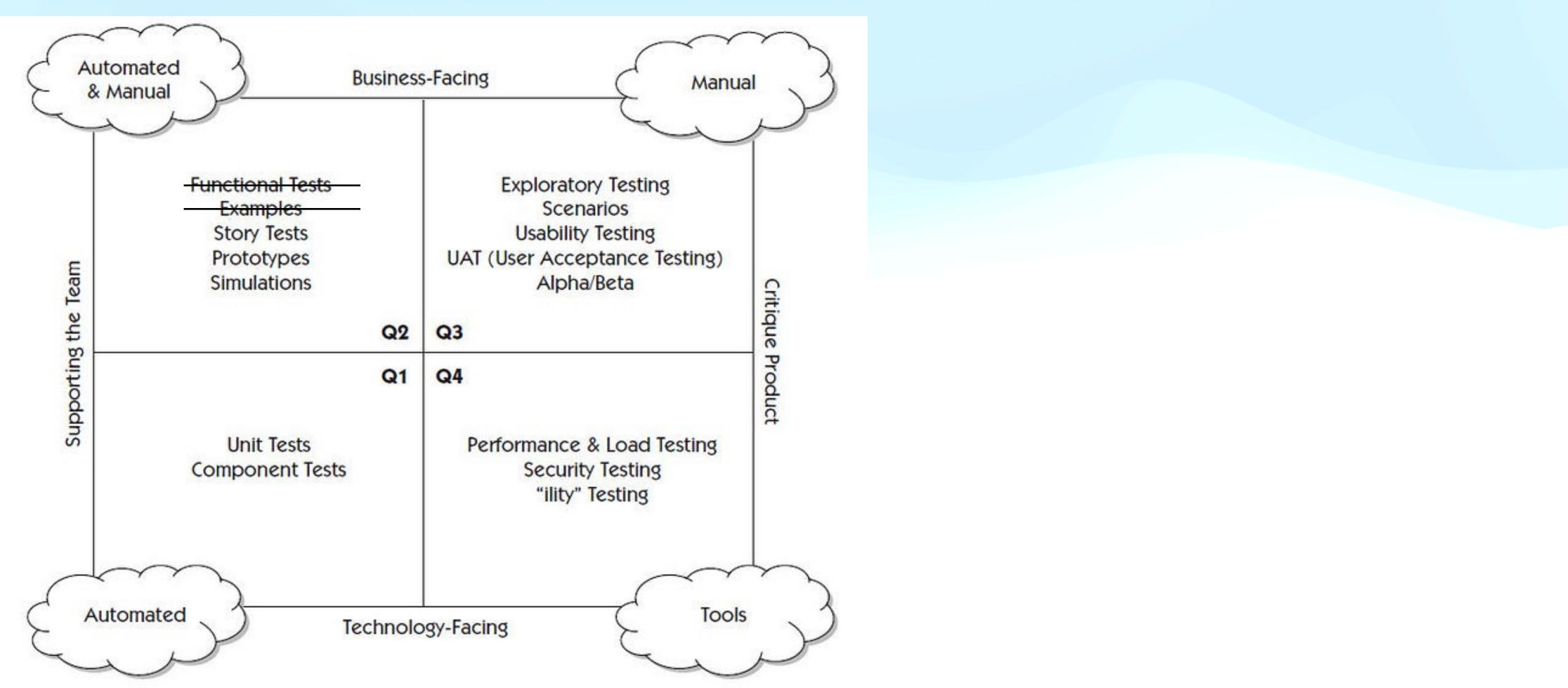
CHIKLI CONSULTING

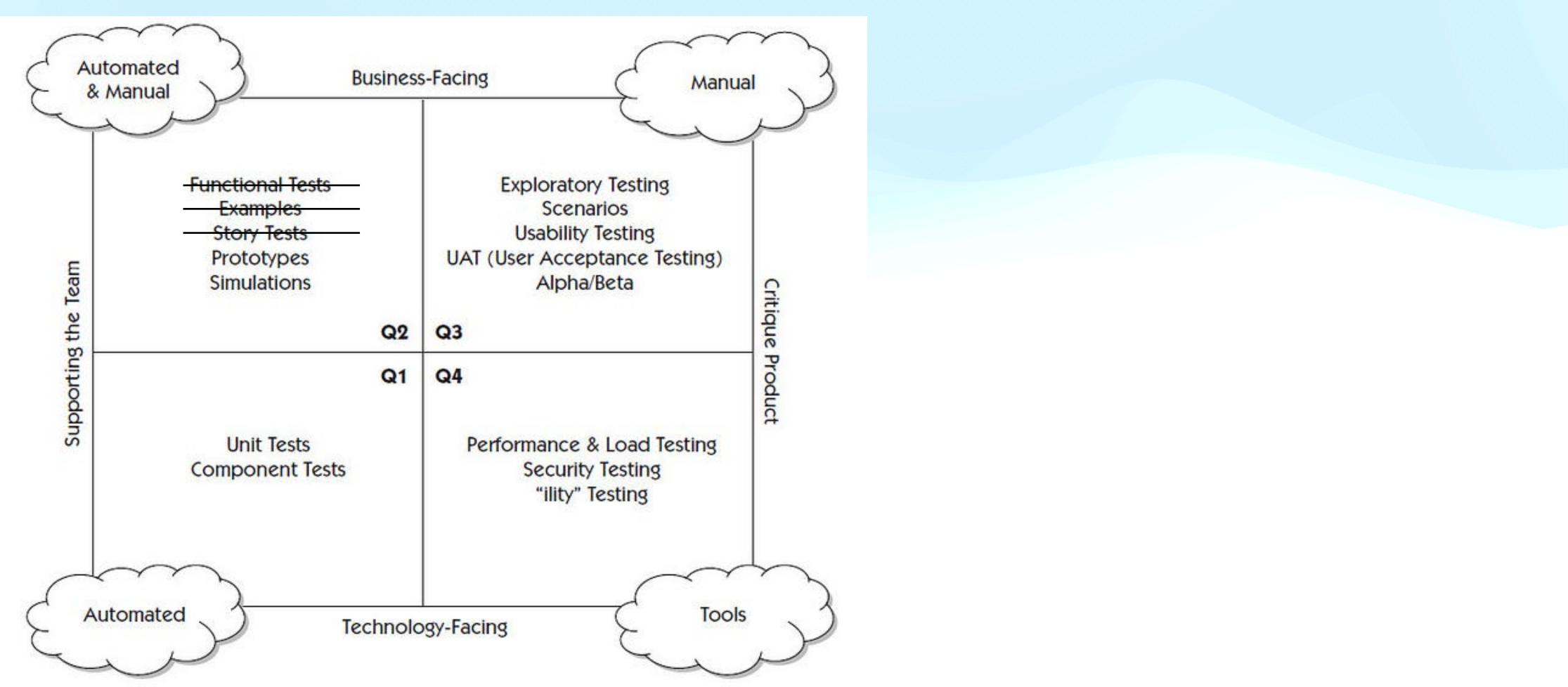


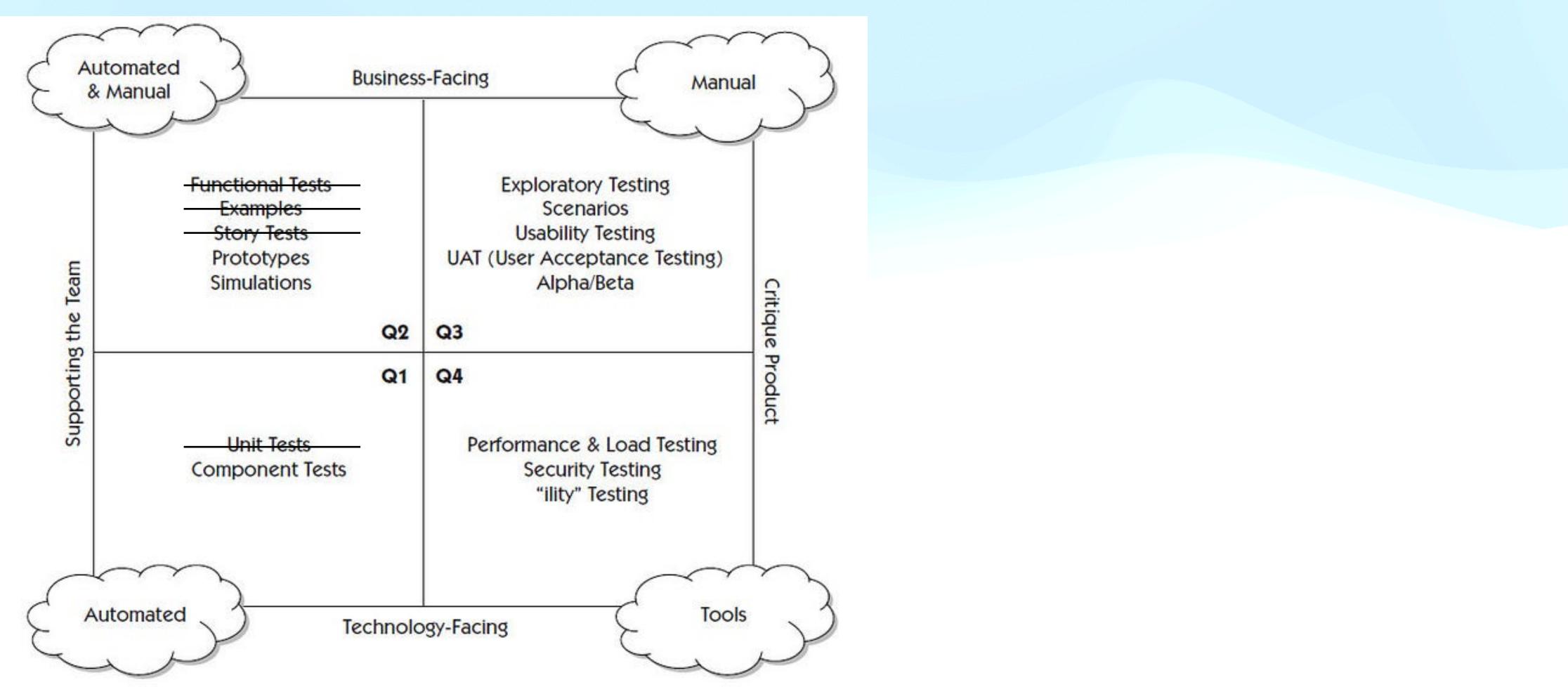
What are we talking about?

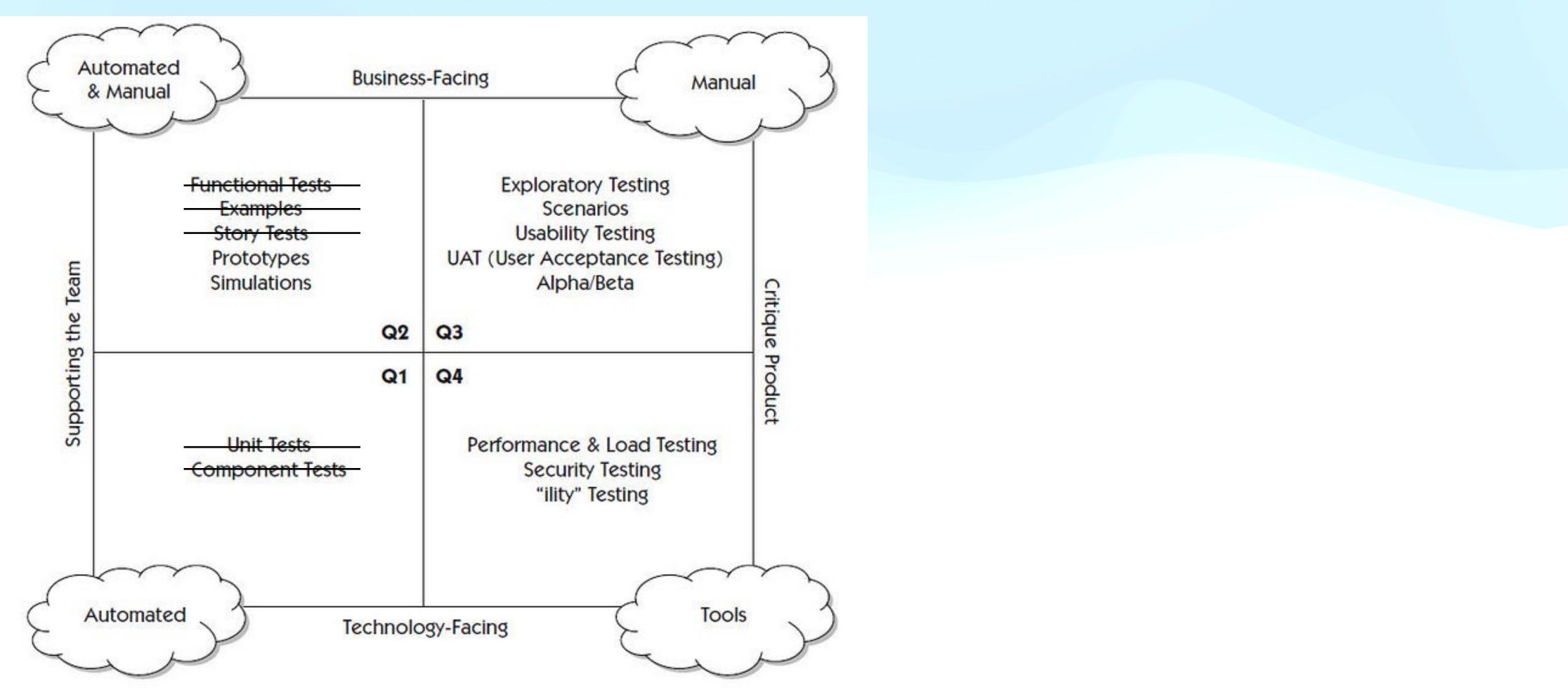


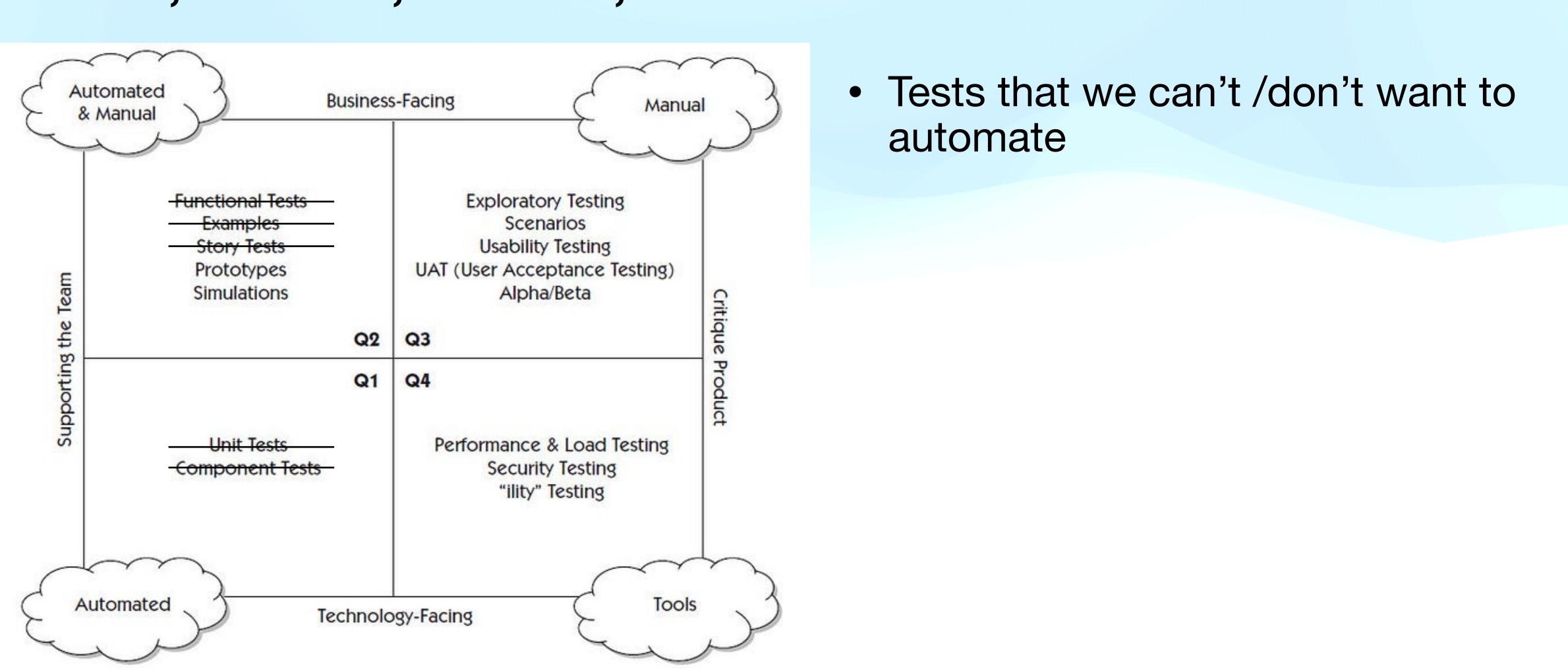




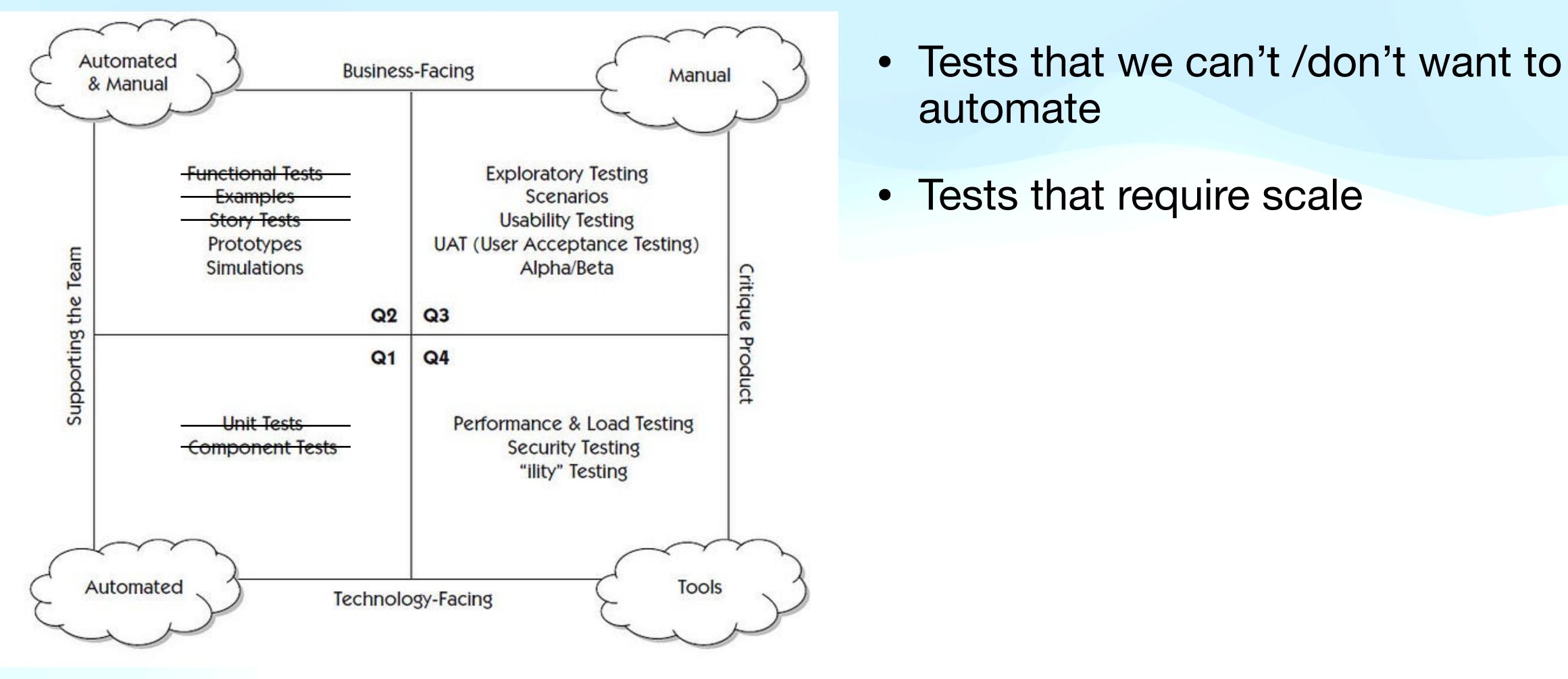














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- "Oh, we forgot to deploy X to the Y."
- Test Data stale, complex, obsolete
- "Make sure this fake system works how you want it to"

Why would we want to do this?

Shorter Cycle Time

- Shorter Cycle Time
- Faster Feedback Loops

- Shorter Cycle Time
- Faster Feedback Loops
- Lower Infrastructure Costs



Appeal to tradition

fallacies.escepticos.es

Show some respect! This is a Very old fradition.





We are uncovering better ways of developing software by doing it and helping others do it.







How can we do it?



Understand what Constitutes Test Data Know thy environment

Understand what Constitutes Test Data Know thy environment

@RestController
@RequestMapping(@>>"api/v1/secret-stuff")
class SuperSecretController(val superSecretService: SuperSecretService) {

@GetMapping(@`/sauce")
suspend fun generateSecretSauce(
 @RequestHeader(name = "Run-Environment") runEnvironment: String,
 @RequestParam("flavor") flavor: String,
 @RequestParam("amount") amount: Int = 8

): SecretResponse<Sauce> {

val sauce : Sauce = superSecretService.generateSecrets(runEnvironment, flavor, amount)
return SecretResponse(sauce)



Control what Customers See They who control the spice, control the universe!

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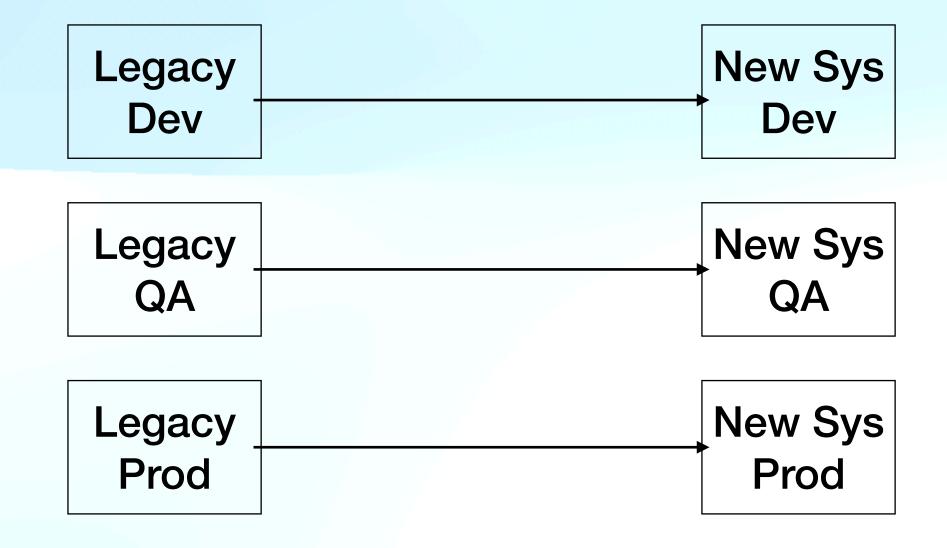
sortOptions.push({ label: 'Saucy!', value: relevanceValue, });

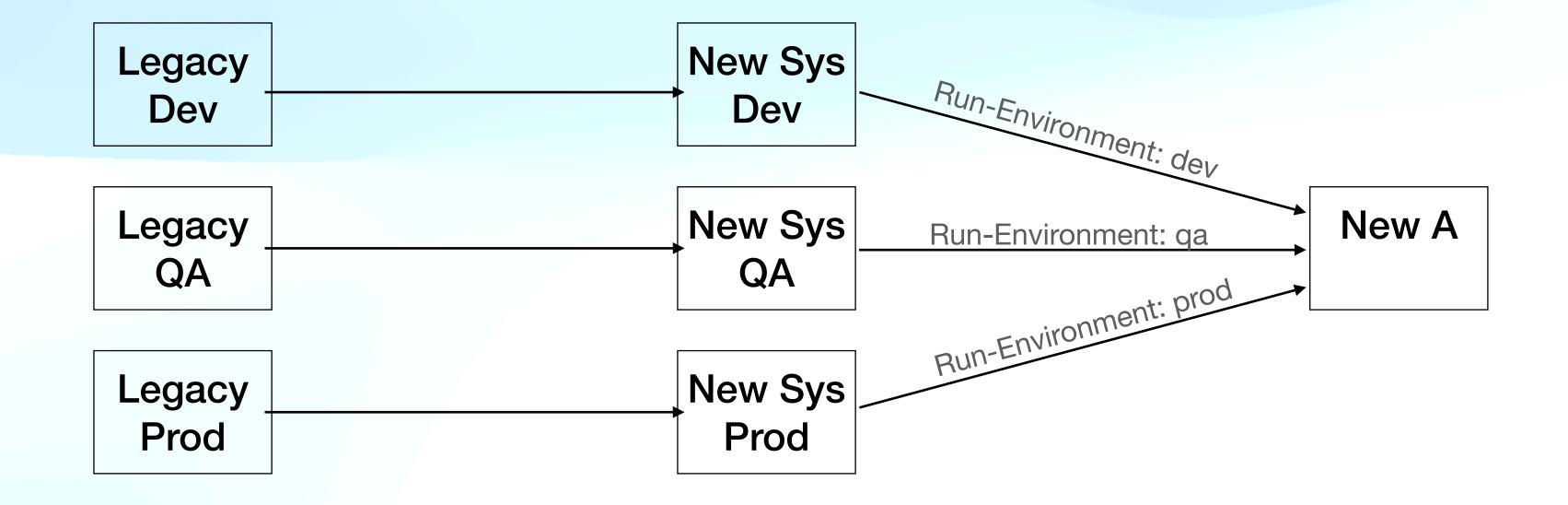
if (ffEnabled(featureFlags, key: 'secret.sauce.enabled')) {

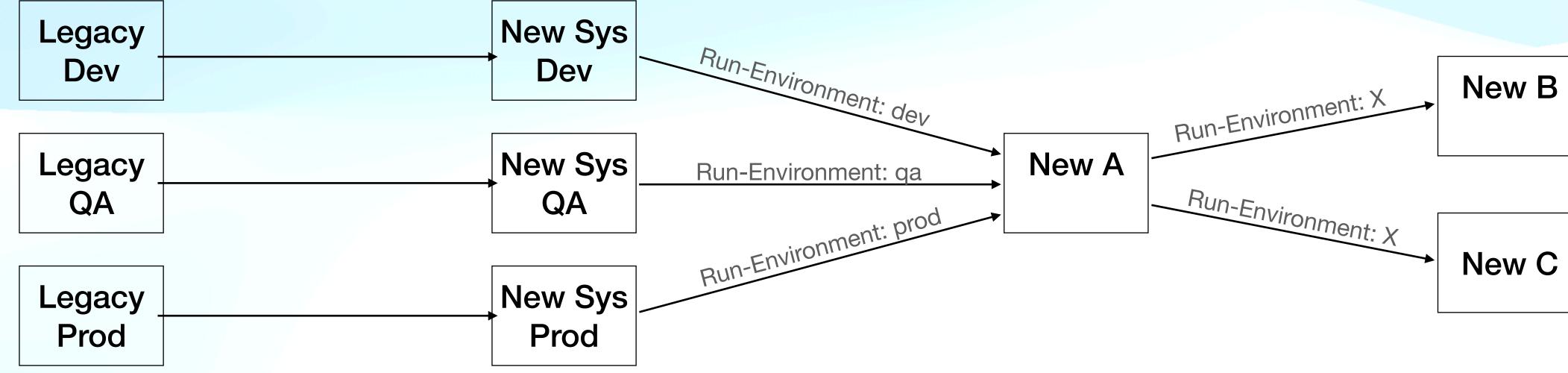
Legacy Dev

Legacy QA

Legacy Prod











Scale up slowly



- Scale up slowly
- Monitor



- Scale up slowly
- Monitor
- If it looks like customers might be impacted, scale back, fix & repeat

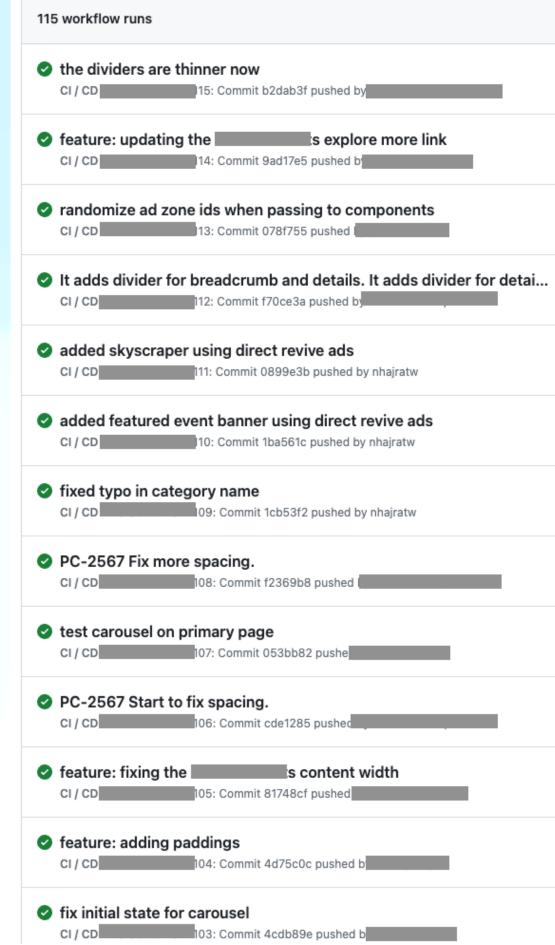
Be the (right kind of) Enabler!

Continuous Deployment Calling it CI/CD doesn't mean it is ...

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All workflows

Showing runs from all workflows



| | Q Fil | Q Filter workflow runs | | | |
|------|--------------------|---|---------------------|---------|--|
| | Event - | Status - | Branch - | Actor - | |
| main | | ☐ 1 hour ago ♂ 5m 46s | | | |
| main | | ☐ 2 hours ago ⑦ 5m 28s | | | |
| main | | ☐ 2 hours ago Ŏ 5m 43s | | | |
| main | | ⊟ 3 hours ago ⊘ 5m 26s | | | |
| main | | ☐ 5 hours ago ⑦ 5m 35s | | | |
| main | | ☐ 5 hours ago Ŏ 5m 35s | | | |
| main | | 苗 7 hours ago ♂ 5m 49s | | | |
| main | | ⊟ 3 days ago ⊘ 5m 20s | | | |
| main | | 苗 3 days ago 祾 5m 45s | | | |
| main | | ☐ 3 days ago ⑦ 5m 21s | | | |
| main | | ☐ 3 days ago Ŏ 5m 32s | | | |
| main | | ☐ 3 days ago ⑦ 5m 33s | | | |
| main | | ☐ 3 days ago ⑦ 5m 31s | | | |

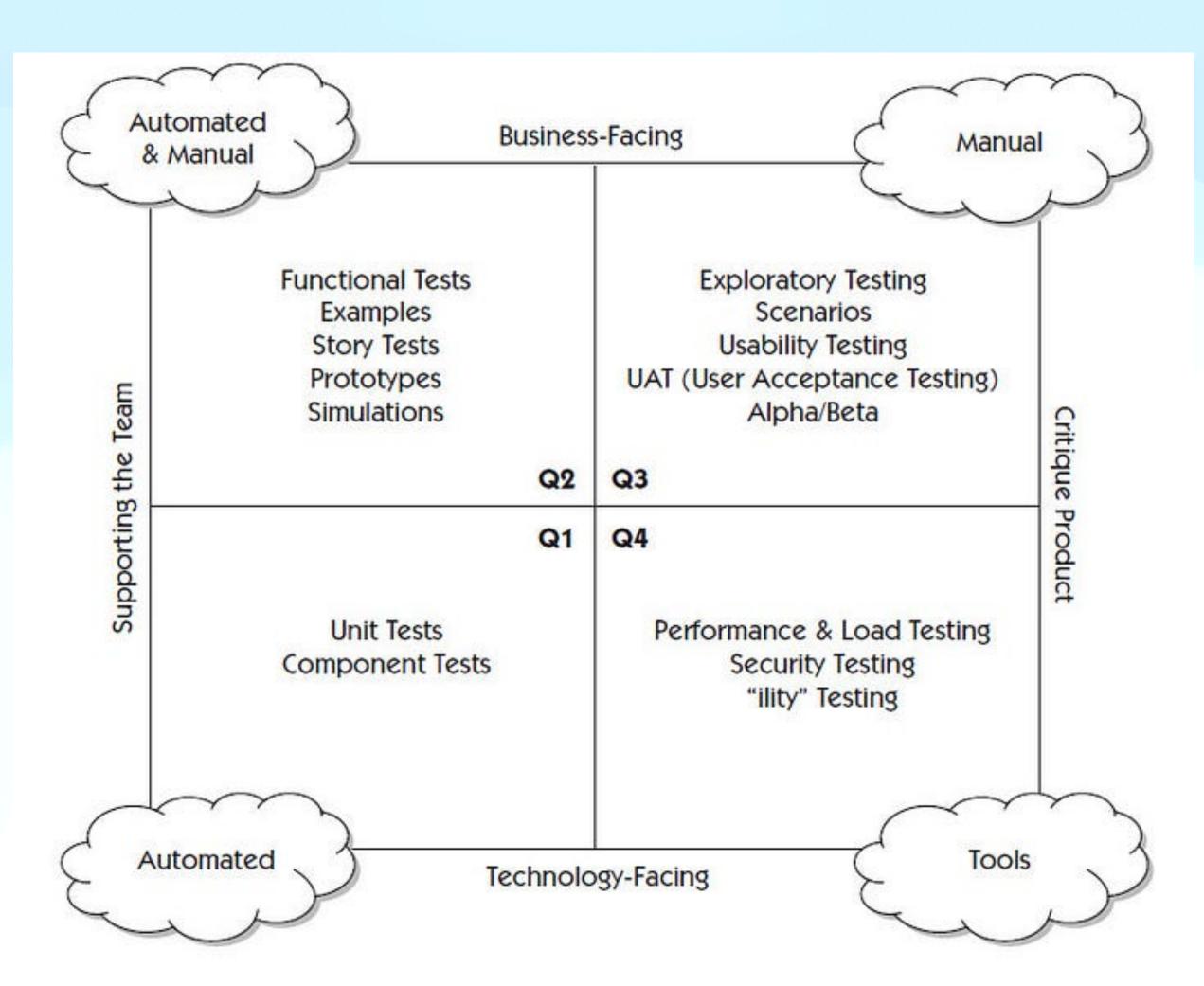
Robust Automated Testing





Robust Automated Testing





Agile Testing Quadrants - Brian Marick, Janet Gregory, Lisa Crispin

What works for one, may not work for another

- What works for one, may not work for another
 - Example: Fake Services

- What works for one, may not work for another
 - Example: Fake Services
- Keep it Lean stop doing things too!

Even if you don't end up testing in Production, thinking about the barriers will make you better

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