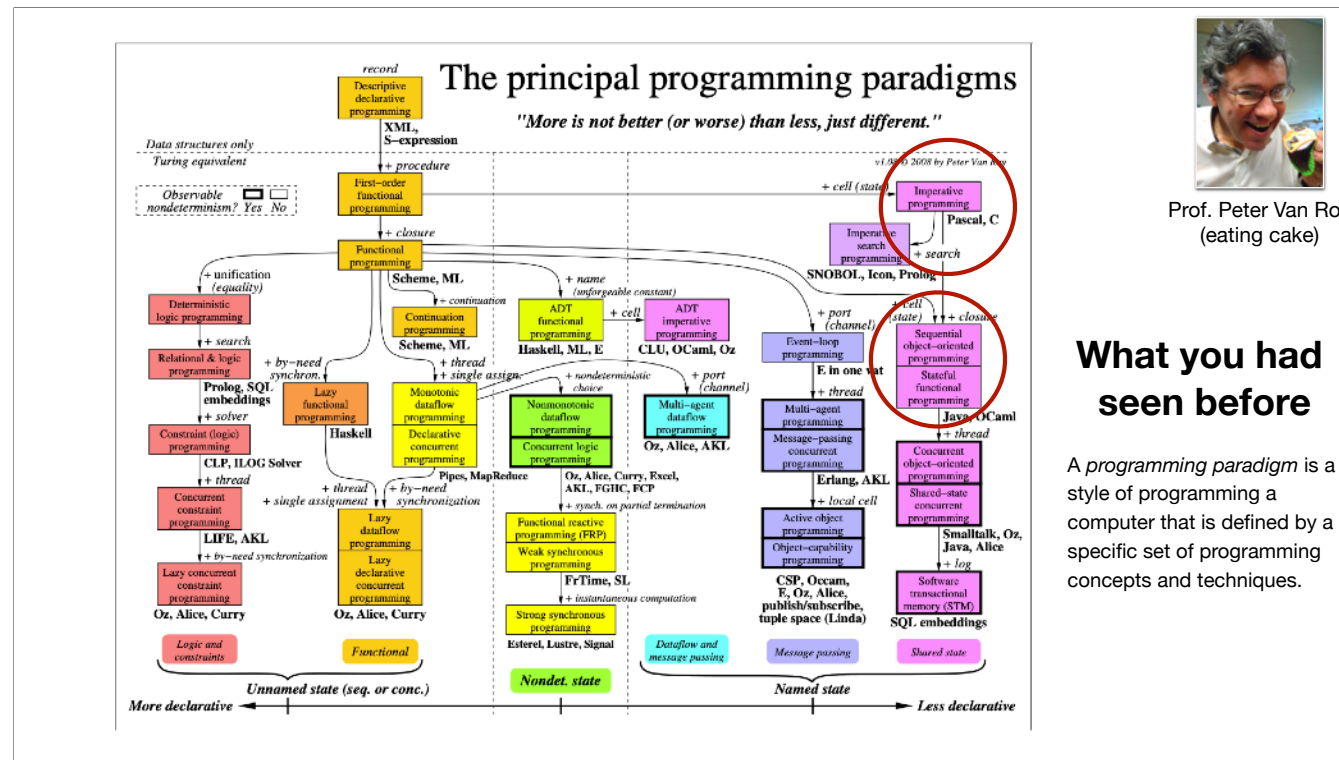


# Conclusion

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**Why FP, Locks, Channels, ...?**

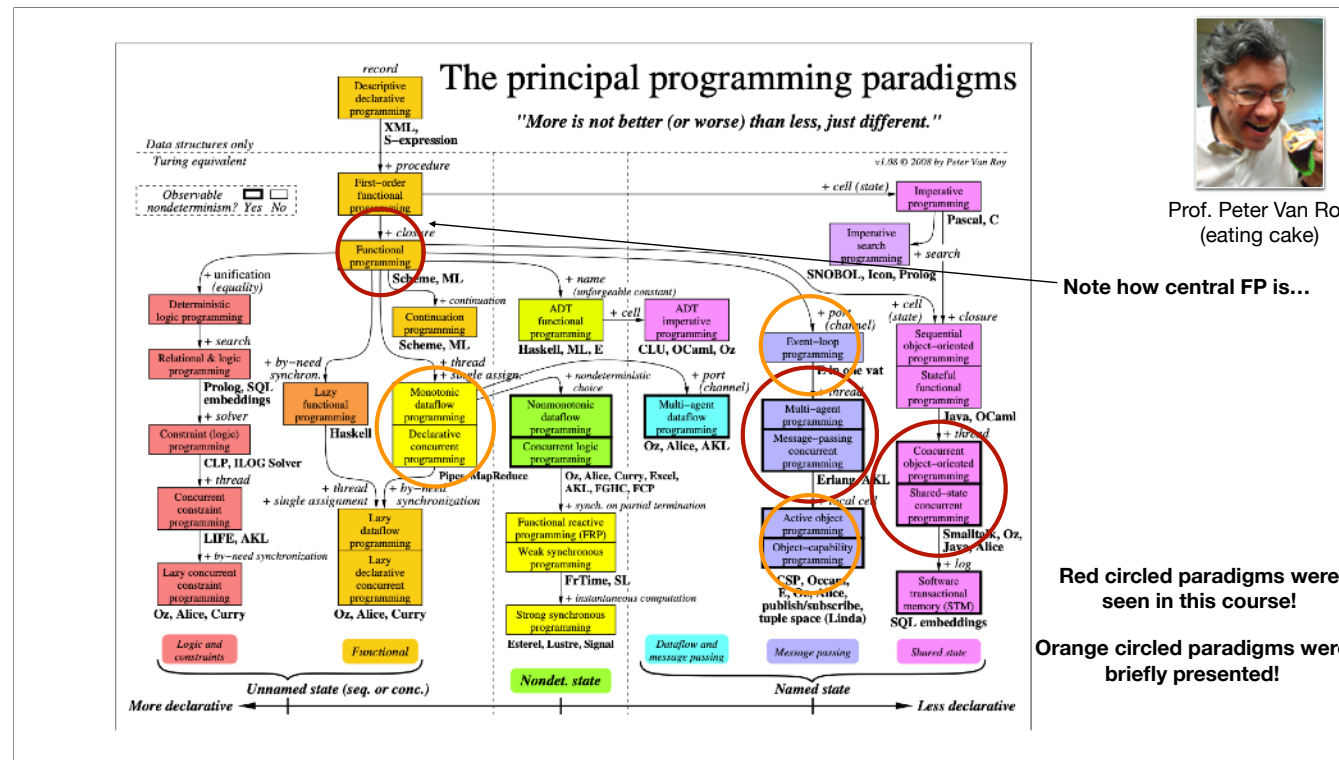


You might have now realised that there are many ways to think when programming.

Paradigms are based on different concepts. For example, functional programming doesn't allow mutability, while object-oriented does. Yet **they are equally powerful!** In this case, we say the paradigms are *Turing equivalent*.

Classical programming languages generally support one main paradigm e.g. C, Haskell, Java. However, there exists languages which support multiple paradigms natively e.g. Scala, Oz, Alice.

This article by Prof. Van Roy discusses the matter: <https://www.info.ucl.ac.be/~pvr/VanRoyChapter.pdf>.



So far, we have seen some paradigms but we cannot see all of them in one course! This slide is just to give an idea that once again, it is just the tip of the iceberg 🙄.

In the end, there is no “best paradigm”, and there is no “best language”. As computer scientists, our job is to be aware of the variety of techniques out there and to **use the one which fits the most** to the problem. Also, we should be careful to **use just the right amount of expressiveness** to solve our problems.

“If you just need a banana, don’t import the whole jungle. The gorillas won’t serve you and might cause trouble” 😊.

This article by Prof. Van Roy discusses the matter: <https://www.info.ucl.ac.be/~pvr/VanRoyChapter.pdf>.

# This course



**Introduce new paradigms (programming styles)**



**Insights on how vast the programming world is**



**Insights on some key techniques coming in various languages and systems**

Don't master a language, master the concepts!  
Good programmers adapt quickly to new  
environments.

**Fill the course feedback!**



Good luck for the exams

