











Introduction to the course

-  **Video:** Welcome to Customising your Models with TensorFlow 2
2 min
-  **Reading:** About Imperial College & the team
10 min
-  **Reading:** How to be successful in this course
10 min
-  **Reading:** Grading policy
10 min
-  **Reading:** Additional readings & helpful references
10 min
-  **Discussion Prompt:** Introduce yourself
10 min
-  **Pre-Course Survey**
15 min
-  **Video:** Interview with Laurence Moroney
4 min

The Keras functional API

Variables and Tensors

Accessing model layers

Layer nodes

Freezing layers

Device placement

Programming assignment: Transfer learning



Additional readings & helpful references

Below you find a selection of additional material for you that may be helpful to keep alongside the course.

Please note that this material is optional and not intended as integral part of the course.

Books

Aurélien Géron - Hands-On Machine Learning with Scikit-Learn, Keras, and TensorFlow, 2nd Edition, O'Reilly Media, Inc., 2019.

Francois Chollet - Deep Learning with Python, Manning Publications, 2017.

Web Resources

For a review of the field of deep learning:

<https://www.deeplearning.ai/deep-learning-specialization/>

✓ Complete

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