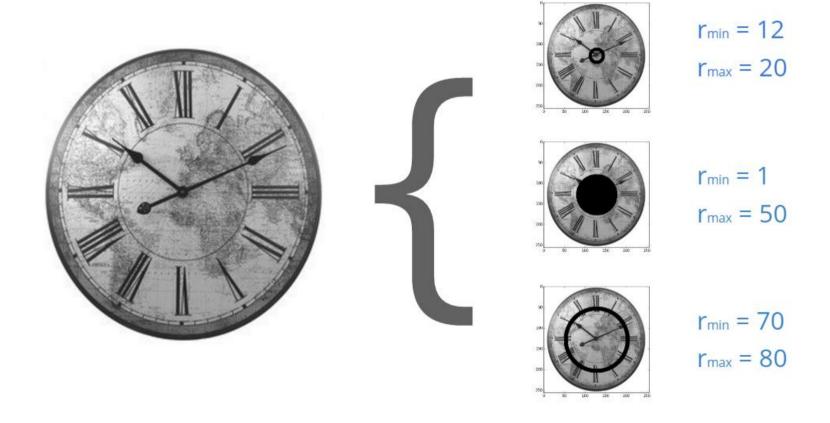
Image Processing, Retrieval, and Analysis.

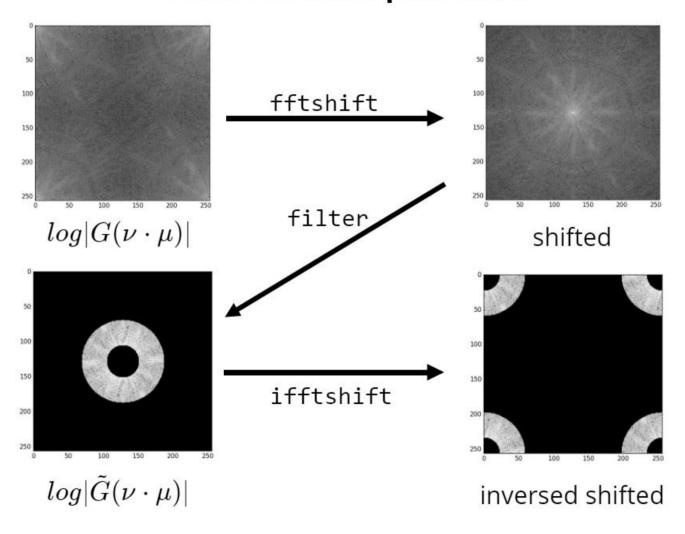
Project 1.

Alina Arunova,
Alexey Karpov,
Maxim Maltsev,
Pylyp Matyash,
Maksym Radomskyi,
Andrey Zhukov.

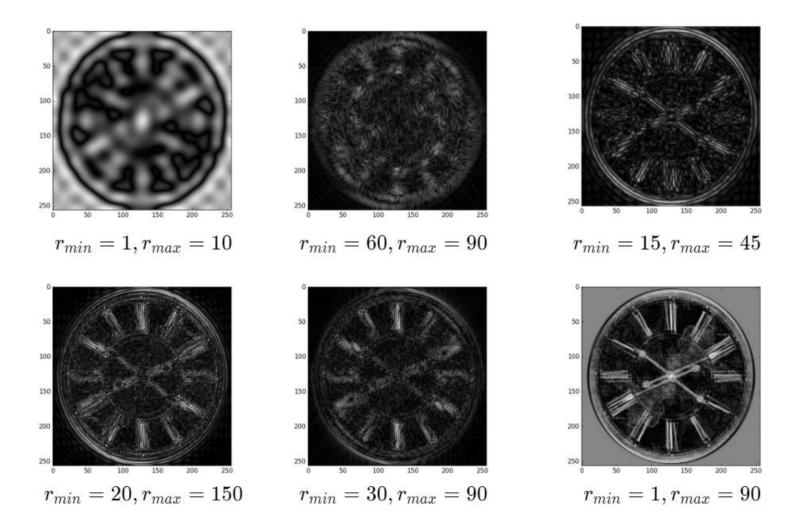
Task 1.1: warm-up



Task 1.3: band pass filter

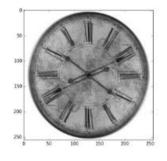


Task 1.3: band pass filter

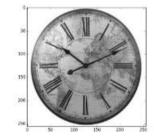


$$|F(\omega)| = \sqrt[2]{[\mathcal{R}(F)^2 + \mathcal{I}(F)^2]}$$
 $\phi(F(\omega)) = an^{-1} rac{\mathcal{I}(F)}{\mathcal{R}(F)}$

$$F(\omega) = |F(\omega)| * \cos(\phi(F(\omega))) + i * |F(\omega)| * \sin(\phi(F(\omega)))$$

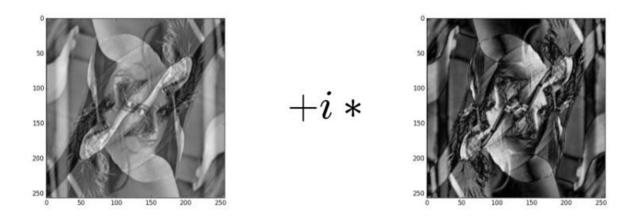


$$+i*$$

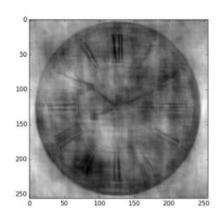


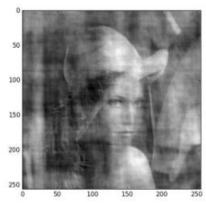
Who is she?

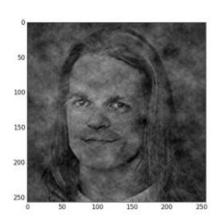


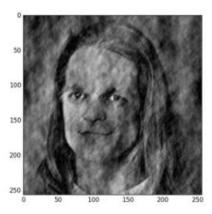


What if..?









Thank you for attention

Sorry for taking too long, here is a potato

