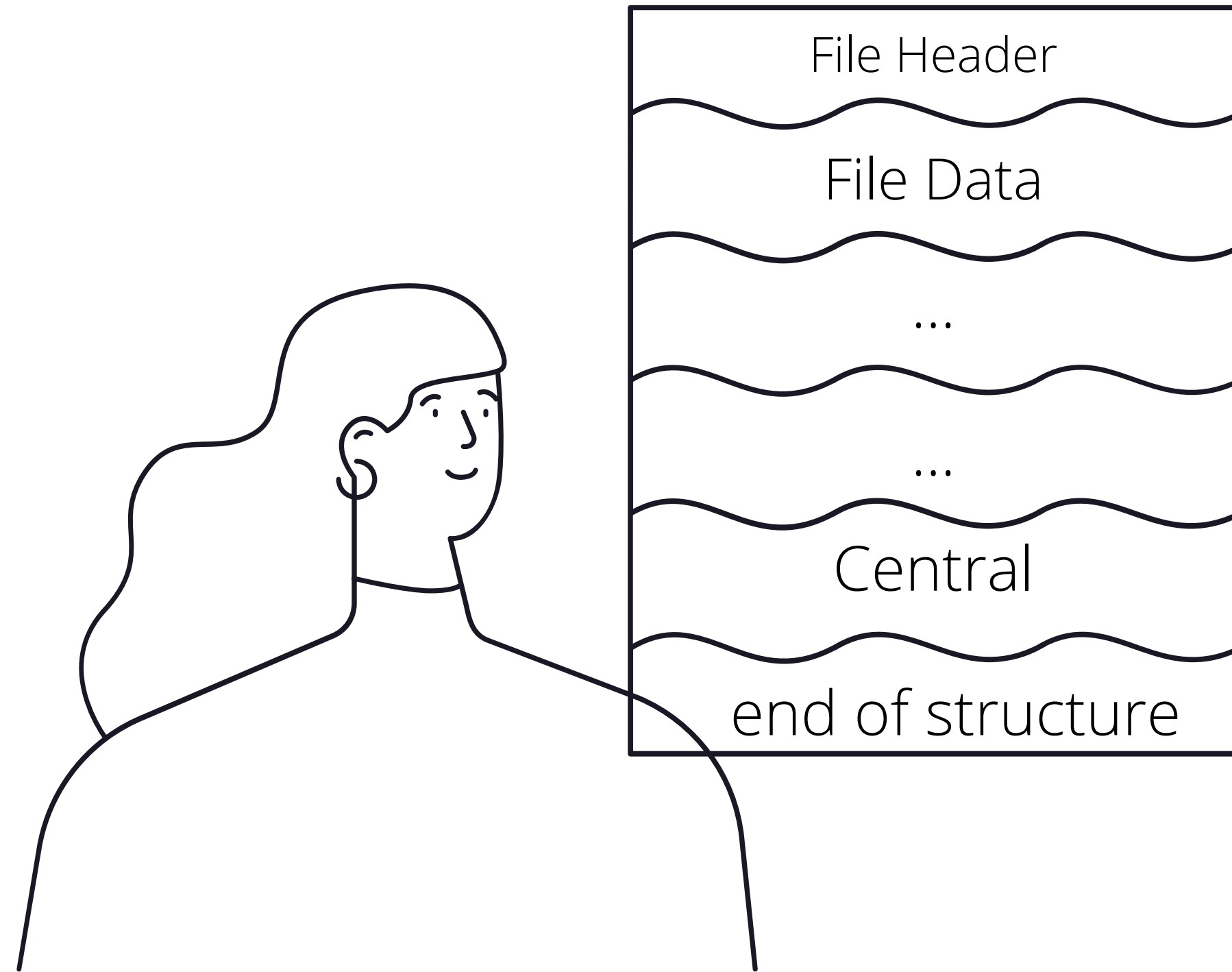




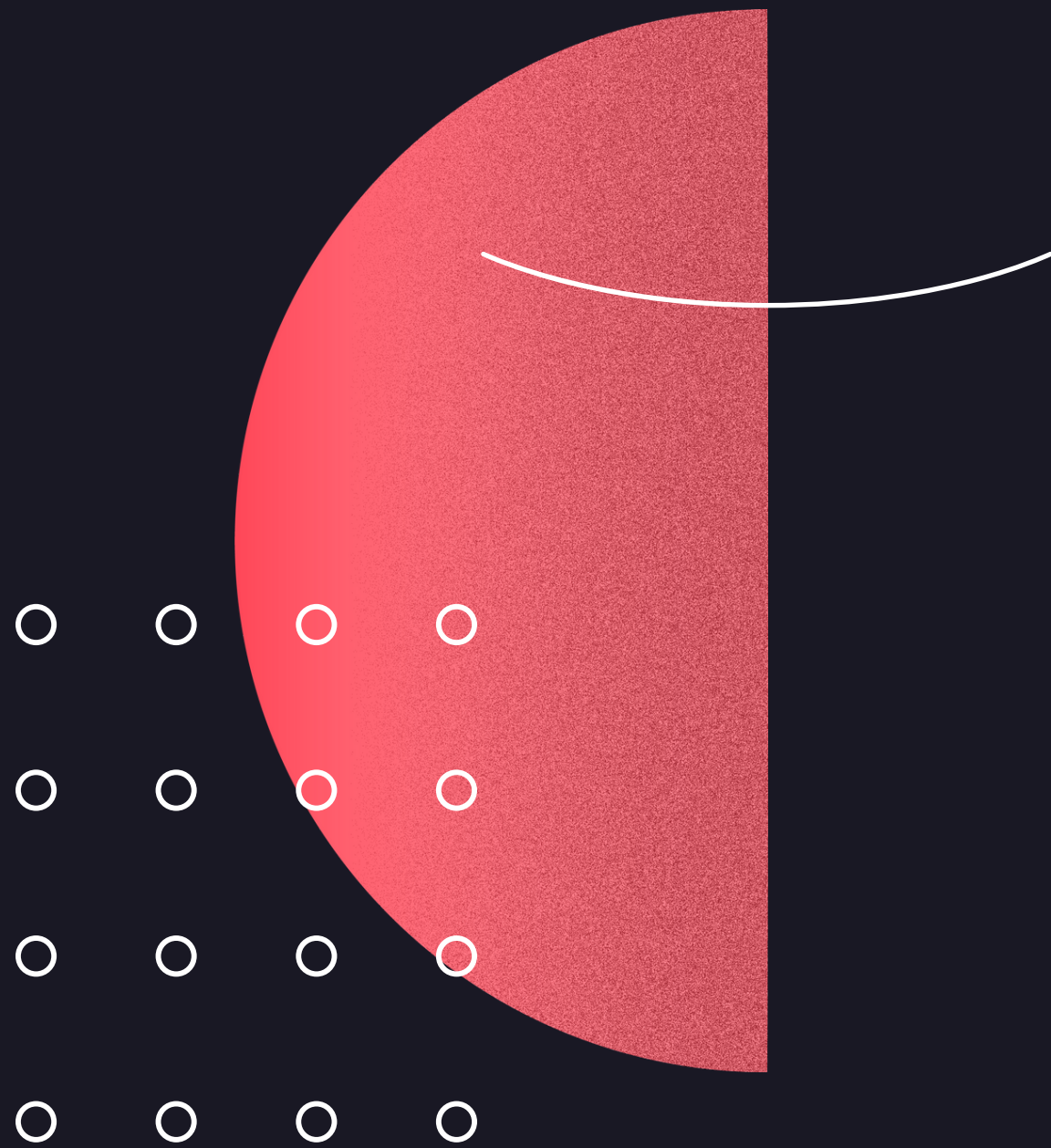
Structure

02



Header Component

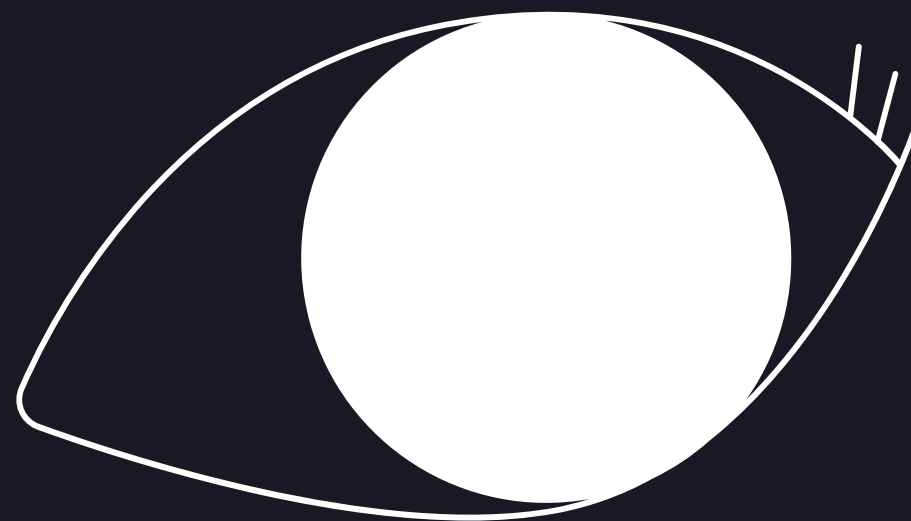
- Signature
- Version
- Flags
- Compression Size ... etc



POINT TO TALK ABOUT

- Create Zip File
- Extract Zip File
- Problems
- Work with real application





**EVERY STRUCTURE USED IN ZIP
HAVE MADE BY HANDS**

CREATE ZIP FILE

we have to choose file and folder to add to zip file , we read files by stream

Create Entries : we will read every file and folder and make entry for it (each entry has : file header - file data - central header) and choose right encoder

Write to Memory : we will read every entry we have created then write it file header and file data after finish write them we will write centrals then write tail (end of zip structure)

EXTRACT ZIP FILE

07

we need first to read zip
file then we need path to
extract

we will still read file
header and file data
until we start to read
central we will stop

when we read file
header we decide what
decoder to use after we
read compression
method in file header
then write data in
stream that create file
on chosen path

PROBLEMS & SOLUTION

08

problem : how should read and write data type ?

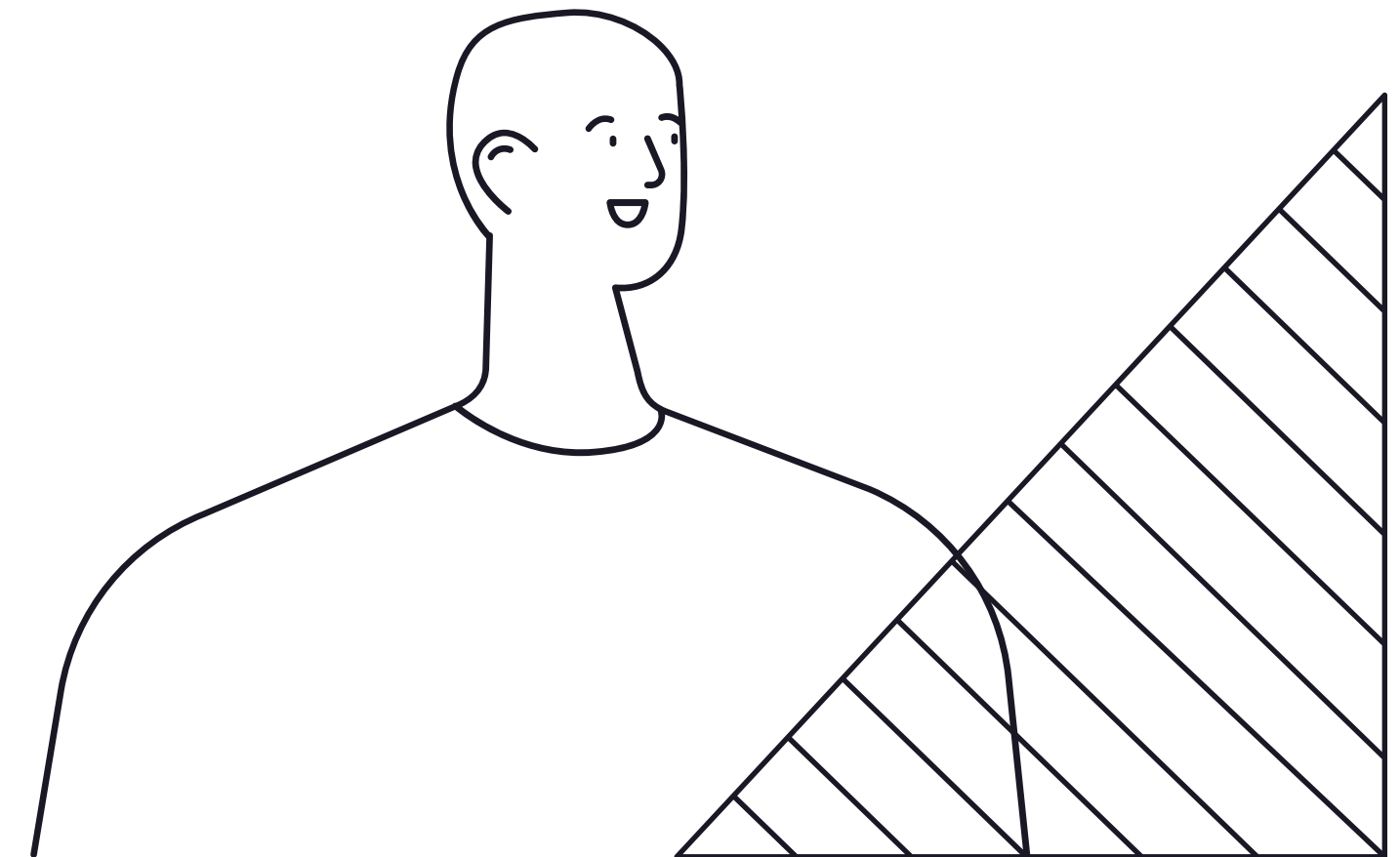
solution : use little endian encode and decode .

problem : how to know where pointer now in stream ?

solution : count file header length + compressed size

problem : how to choose en/decode dynamic ?

solution : use factory (from design pattern)



WORKS WITH REAL APPLICATION

when we read and write in standard type
that mean we speak compression utility
language

