All VAR Charts

```
x <- fread(here::here("./data/vfciBC data.csv")) |>
  filter(date <= as.Date("2017-01-01")) |>
  dplyr::select(
    date,
    vfci = vfci_fgr10gdpc1,
    interest,
    output,
    investment,
    consumption,
    hours_worked,
    unemployment,
    labor_share,
    inflation,
    productivity,
    TFP
  )
bc_freqs \leftarrow c(2 * pi / 32, 2 * pi / 6)
lags <- 2
v \leftarrow VAR(x[, -"date"], p = lags, type = "const")
grid <- tribble(</pre>
  ~model, ~color, ~method, ~freq, ~target, ~sign, ~chol_order,
  "v0632", "goldenrod", "fevdfd", bc_freqs, "vfci", "neg", NA,
  "u0632", "steelblue", "fevdfd", bc_freqs, "unemployment", "pos", NA,
  "vChol", "firebrick", "chol", NA, "vfci", "neg", c("vfci", "interest", "output", "investment", "consu
  "uChol", "mediumorchid", "chol", NA, "unemployment", "pos", c("unemployment", "vfci", "interest", "ou
  "infChol", "black", "chol", NA, "inflation", "neg", c("inflation", "unemployment", "vfci", "interest"
  "ivChol", "lightpink", "chol", NA, "vfci", "neg", c("interest", "vfci", "output", "investment", "cons
mv_list <- lapply(seq_len(nrow(grid)), function(i){</pre>
  if (grid[[i, "method"]] == "fevdfd") {
    mv <- id_fevdfd(v, grid[[i, "target"]], grid[[i, "freq"]][[1]], sign = grid[[i, "sign"]])</pre>
  } else if (grid[[i, "method"]] == "chol") {
    vchol <- VAR(relocate(x[, -"date"], grid[[i, "target"]]), p = lags, type = "const")</pre>
    mv <- id.chol(vchol, order_k = grid[[i, "chol_order"]][[1]])</pre>
    mv$B <- mv$B * ifelse(grid[[i, "sign"]] == "pos", 1, -1)</pre>
 return(mv)
})
colors <- setNames(grid$color, grid$model)</pre>
```

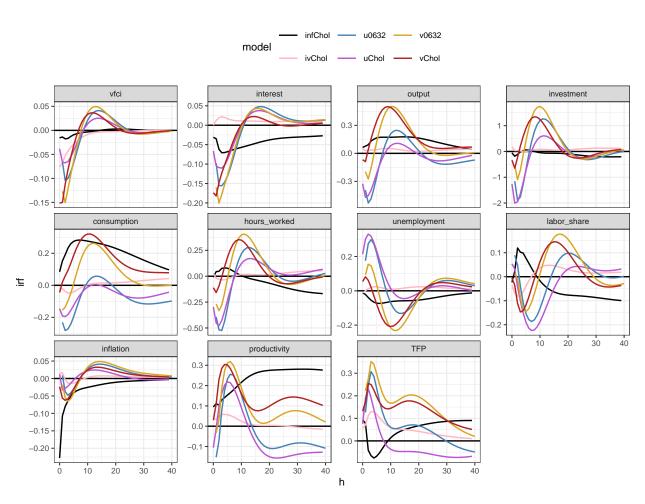


Figure 1: IRF

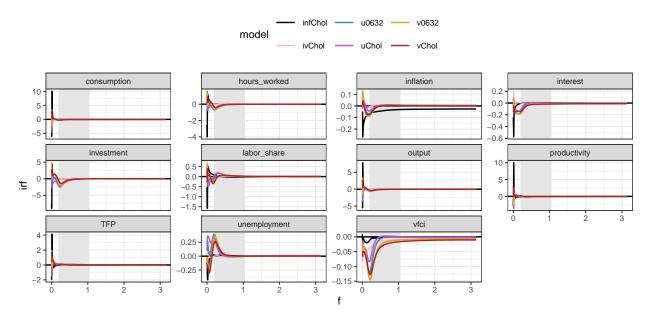


Figure 2: IRF Frequency Domain

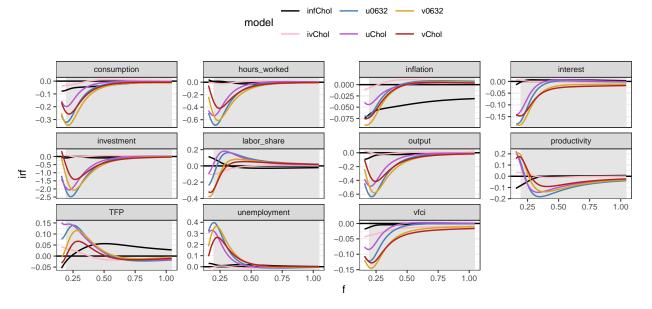


Figure 3: IRF Frequency Domain (\leq 2 pi /6)

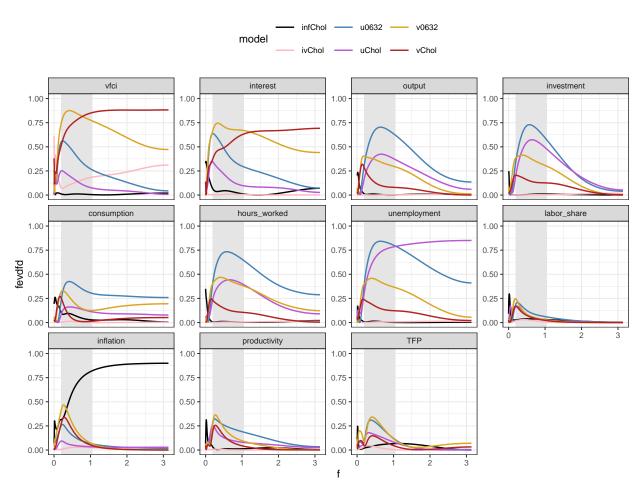


Figure 4: FEVDFD

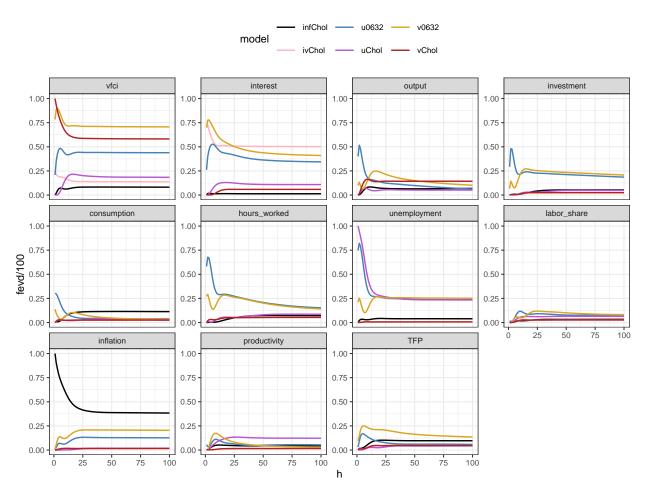


Figure 5: FEVD

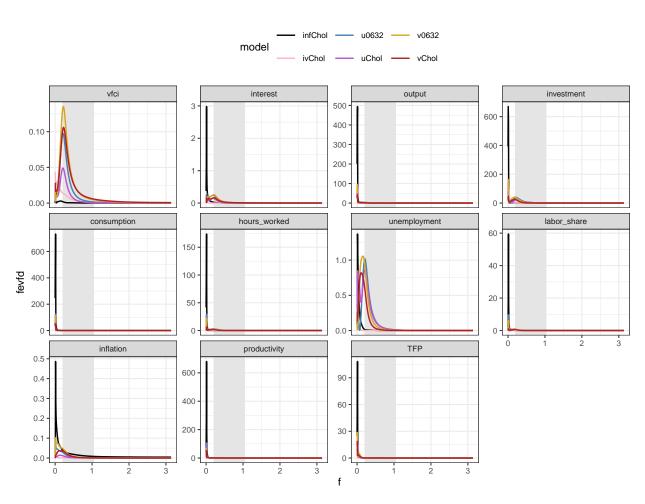


Figure 6: FEV FD

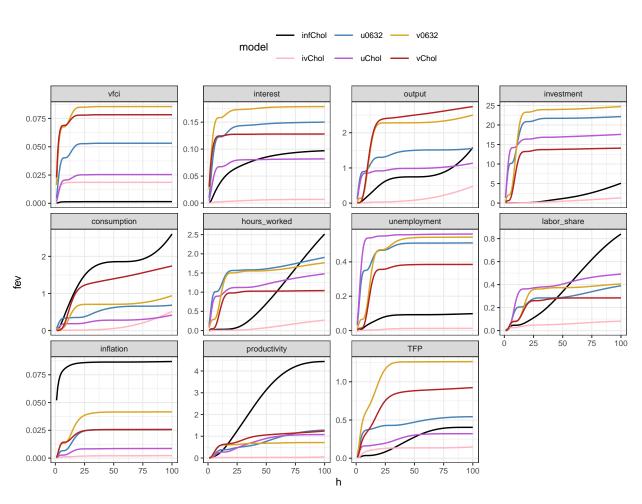


Figure 7: FEV

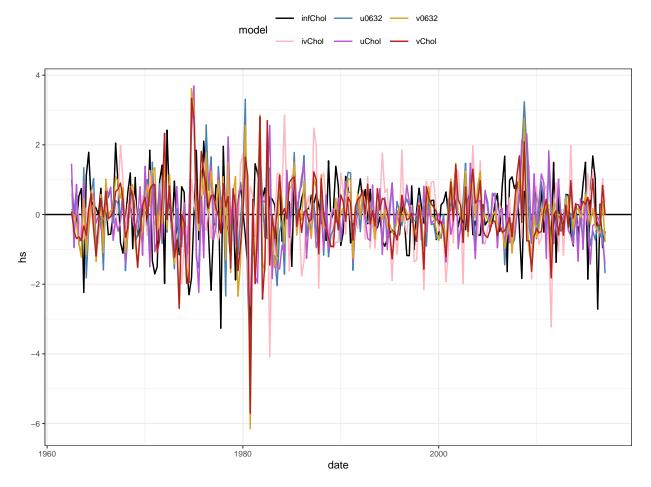


Figure 8: Historical Shocks

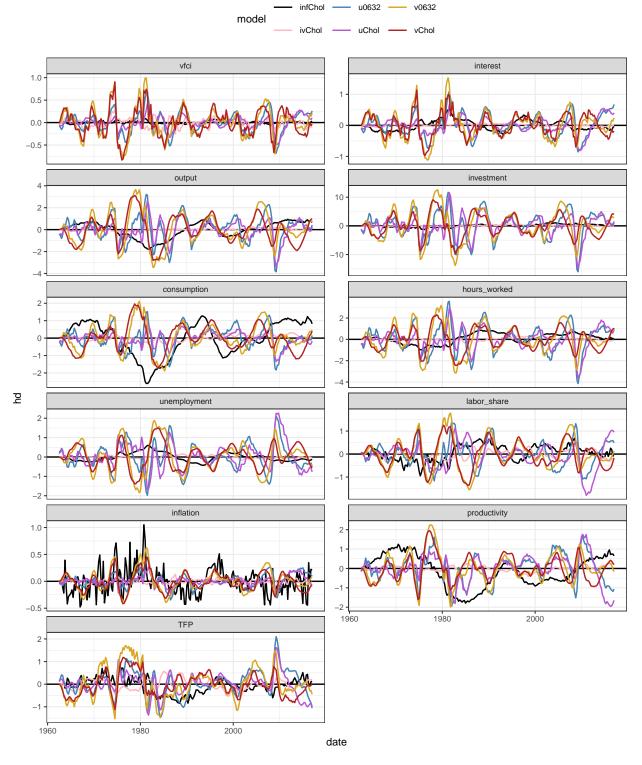


Figure 9: Historical Shocks

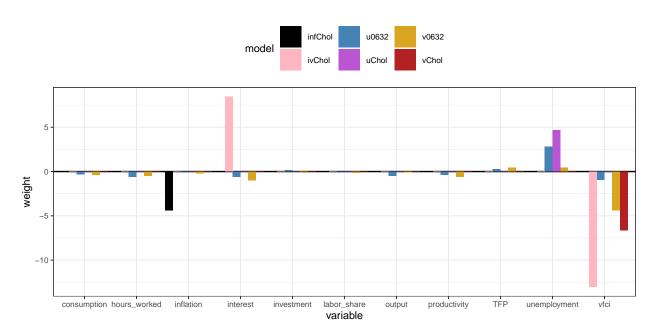


Figure 10: B Weights (Empirical Shocks)