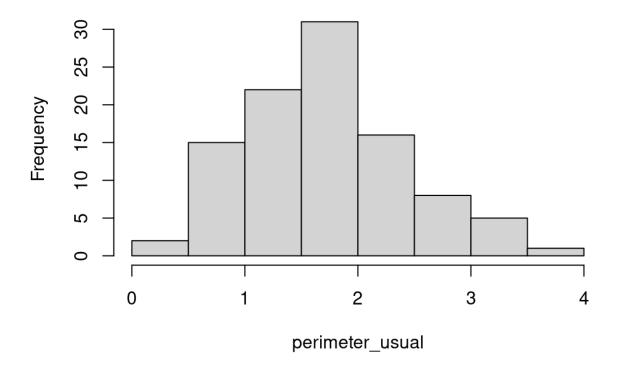
Spočítali jsme perimeter mitochondrií dvěma různými metodami a chceme porovnat výsledky.

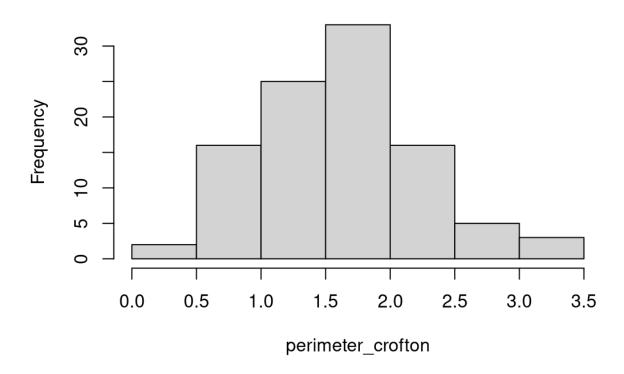
> perimeter_usual = c(3.492756050848081, 0.0943552060097428, 1.1686475457949477, 2.3657775 18633738, 1.248857413463238, 1.5727785171899855, 1.7732073111802429, 2.748211106614252, 0. 9383475457949476, 2.5885583727214234, 0.8433376631022999, 1.9126966645460524, 2.1372497983 21514, 2.448222592311771, 1.917167076565538, 0.058461139843888, 1.785772120194857, 3.03000 $02704384283,\ 2.593842312623995,\ 2.2248993863020283,\ 1.6156774585363094,\ 0.905123530770590$ 4, 1.8289422375022093, 1.241880619472981, 1.5006630465168236, 3.110210138106719, 1.4171003 69833919, 1.2196408841364, 2.176141253970319, 2.066139605892376, 1.874459885580152, 1.5913 942675509236, 1.1313366194729808, 2.5478665561946303, 0.8612987367803332, 1.33214891418511 42, 2.374143091589895, 3.059487975726295, 2.0960108119021186, 1.8176867818534048, 1.522902 7818534049, 2.027631650965448, 1.2241112961558858, 1.5357387668290476, 1.830443341228957, 2.2309503276483524, 0.7570768540876857, 0.6708160450730712, 0.9871056781266572, 1.1097515 608193047, 1.7120761201948569, 2.945319990750652, 0.6231755157462334, 1.9515086945947664, 1.099693133775462, 1.7951758705557952, 0.9972435307705904, 2.5023769893069, 1.31511369315 1014, 1.2717518254827238, 1.5859980028875045, 2.6220535637068094, 1.7419473262046, 1.00441 20751217858, 0.8076072661071715, 2.523962047960576, 1.2776110164681094, 1.259187016468109 4, 2.0436286945947666, 1.2901758254827238, 1.4103153262046, 0.9588150014437522, 1.04842861 9472981, 0.5759979127413619, 1.7414843998826333, 1.8619745021656289, 0.6442976480779429, 1.7331982525265666, 1.508565693151014, 1.871107076565538, 2.474086312623995, 0.9334142074 534952, 1.8971625472387, 2.089034017911862, 1.846169208897248, 1.6750363698339188, 3.65213 7608779881, 3.2160919757262945, 1.6399606495216952, 1.811172914185114, 2.2889998855801523, 2.112854282575281, 1.4750705021656283, 1.5833792961558857, 1.4730270465168236, 2.055538826 9264765, 1.6853659728387902, 1.3551227518046904, 0.6128459127413618, 1.3746643548095618) > hist(perimeter_usual)

Histogram of perimeter_usual



> perimeter_crofton = c(3.3236914445330017, 0.1018054122014146, 1.1202984158892777, 2.2552 487982825205, 1.1963421388327151, 1.5034386019411703, 1.6934570139289984, 2.61781857497038 1, 0.9019603247918276, 2.4664582920496283, 0.8118853077596725, 1.8257012134179629, 2.03859 09336892816, 2.333411629403886, 1.8299394297738183, 0.1158367062901324, 1.705369199839788 4, 2.884971454350829, 2.4714677812020422, 2.121687953772406, 1.5441093486352988, 0.8704619 834153139, 1.746297037466103, 1.1897277233667451, 1.4350688485526668, 2.9610151772942666, 1.3558464633423375, 1.1686431321383404, 2.075462345701271, 1.9711742438388675, 1.78945047 3821221, 1.5210874399704968, 1.084925439639969, 2.428784416880861, 0.8289134733737517, 1.2 75307433110858, 2.263179858769641, 2.9129275519773903, 1.9994939229484896, 1.7356261963858 075, 1.4561534397810716, 1.9346664133099387, 1.1728813484941965, 1.468322716624048, 1.7477 201730381278, 2.1274246058909427, 0.7301049326976985, 0.6483245576357246, 0.94818593286296 24, 1.0644615208268116, 1.635501010688604, 2.804689515051536, 0.6031585036535537, 1.862497 325239297, 1.054925534026136, 1.7142845142252168, 0.9577972198542938, 2.38475321717831, 1. 2591570308442124, 1.218047402476367, 1.5159714602672074, 2.498213724358328, 1.663820689798 226, 0.9645934260617944, 0.7780107672730444, 2.405217135991468, 1.223602263853373, 1.20613 5216565577, 1.9498325616782768, 1.235514449764163, 1.349413838617898, 0.9213646895160212, 1.006323726844887, 0.5584313313450997, 1.6633818081245093, 1.7776135881010866, 0.62318354 07929944, 1.655526047828045, 1.4425610273660705, 1.7862718115543288, 2.3579319738313687, 0.897283226762255, 1.810973946723342, 1.99287950748252, 1.7626292304742792, 1.60038512537 14818, 3.474794636521568, 3.0613974539236564, 1.5671312573001008, 1.7294506625935544, 2.18 2459037796631, 2.015462534473605, 1.4108055950573704, 1.5134887706062183, 1.40886827762097 29, 1.9611240751738197, 1.6101782031043437, 1.2970879969451656, 0.5933654259206919, 1.3156

Histogram of perimeter_crofton



Test hypotézy

$$H_0 = \mu_{m1} = \mu_{m2}$$

$$H_A=\mu_{m1}>\mu_{m2}$$

```
0.06893386 Inf
sample estimates:
mean of the differences
0.07524129
```

```
> plot(x=perimeter_crofton, y=perimeter_usual)
```

