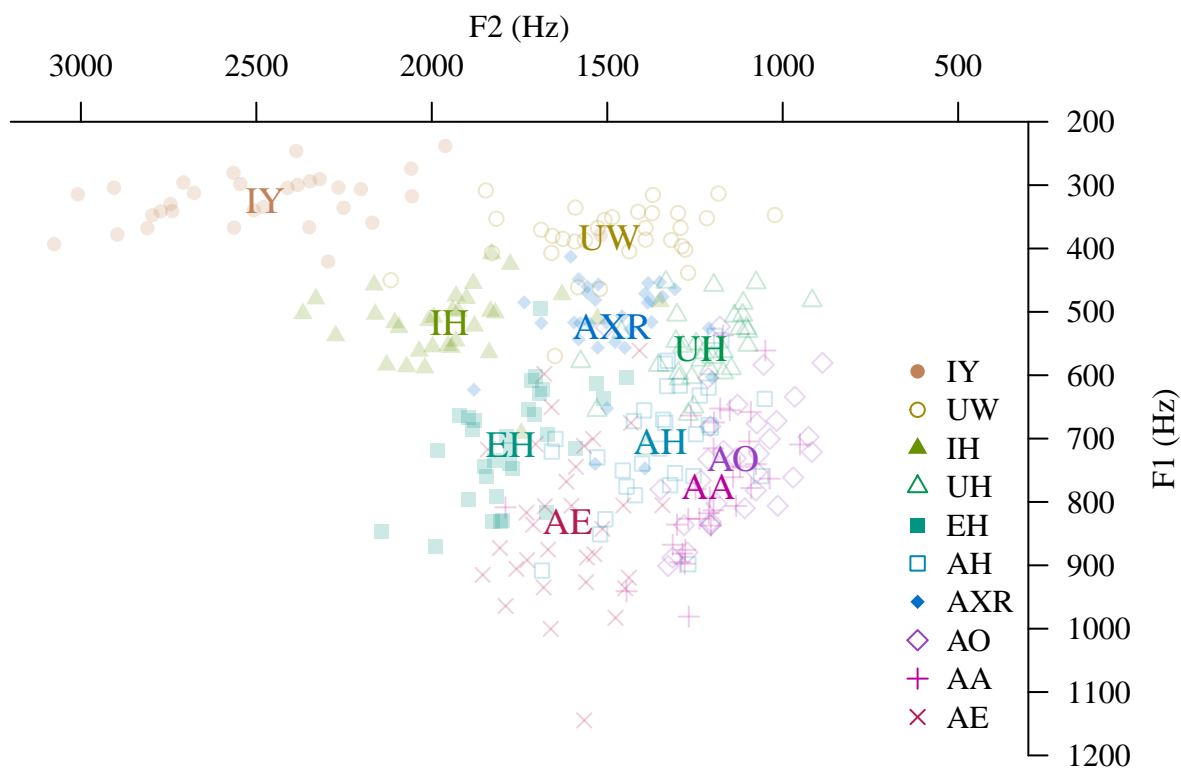
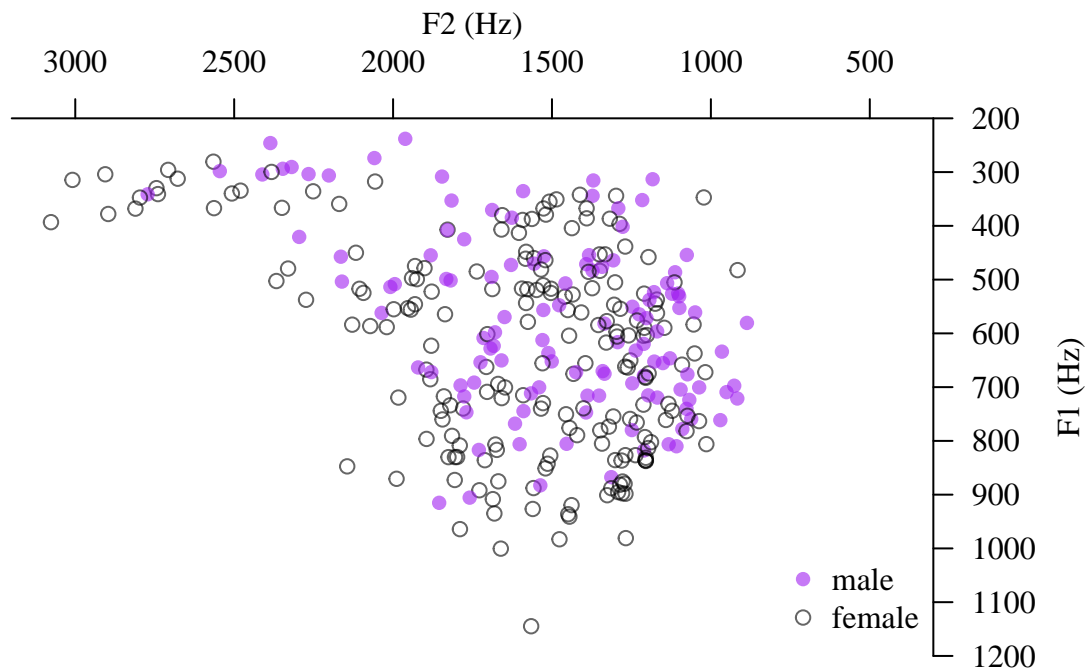


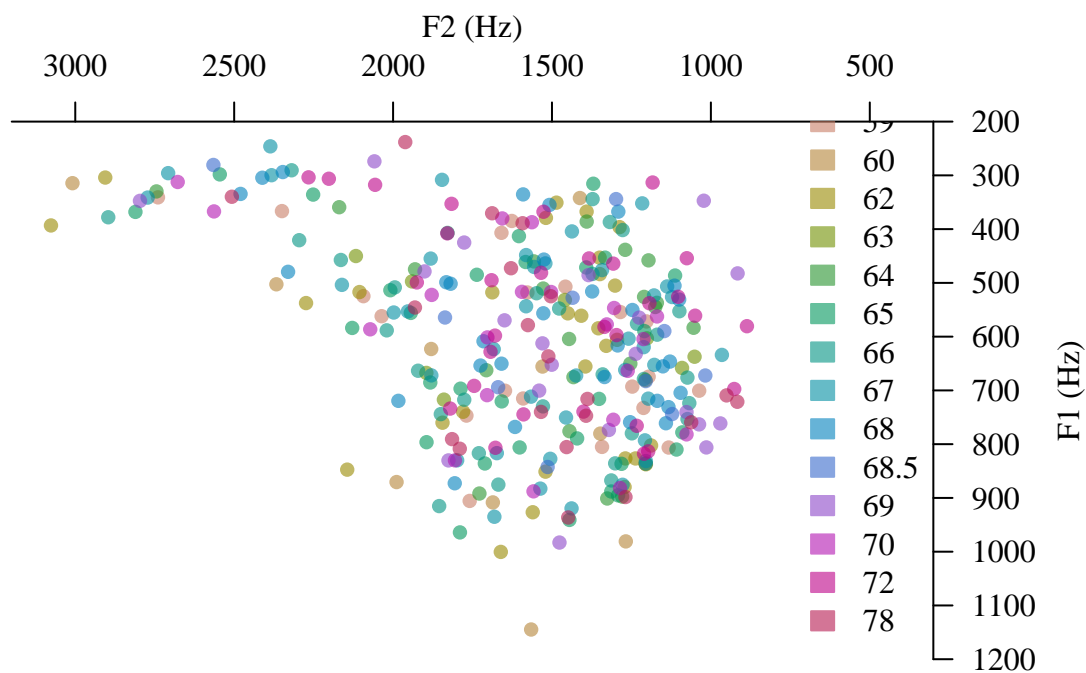
Plot of monophthong vowels for LING20101



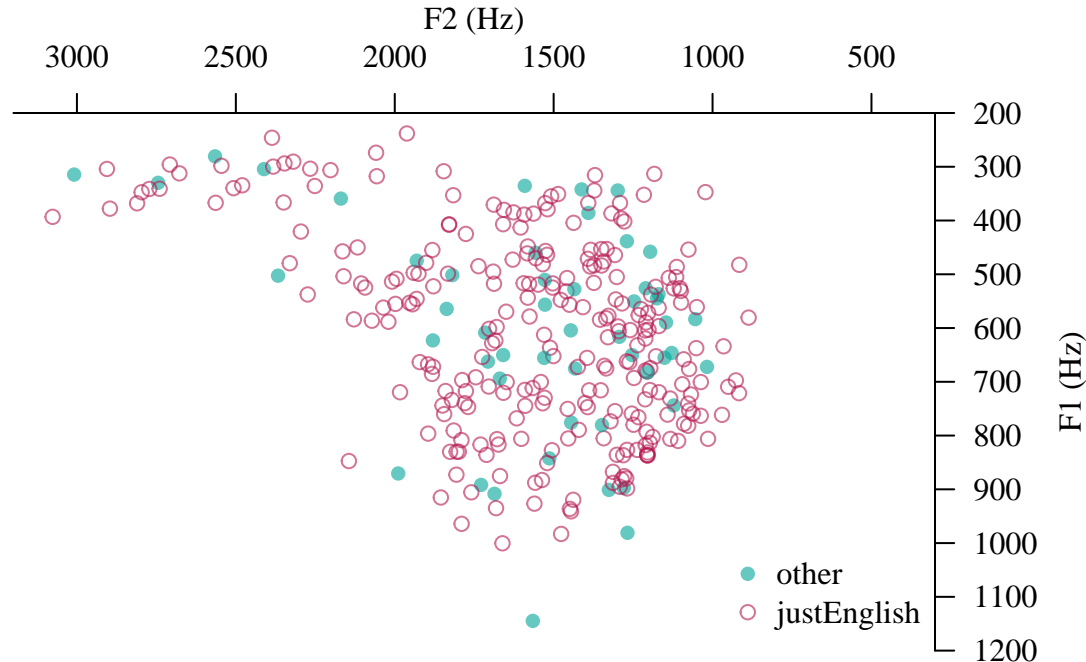
Plot of monophthong vowels for LING20101 by sex



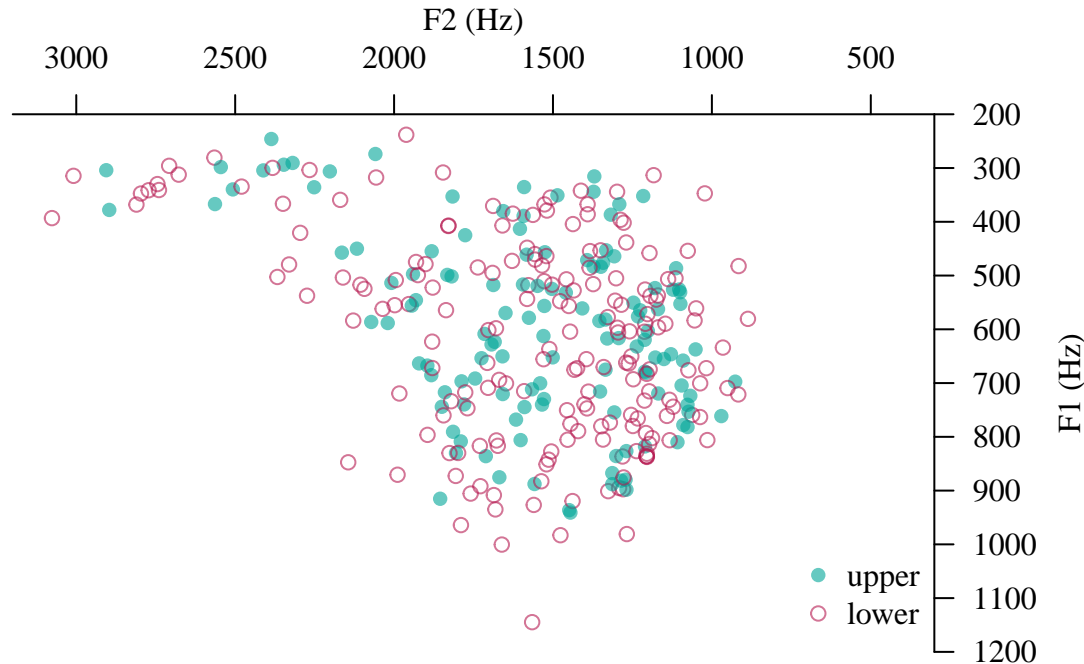
Plot of monophthong vowels for LING20101 by height



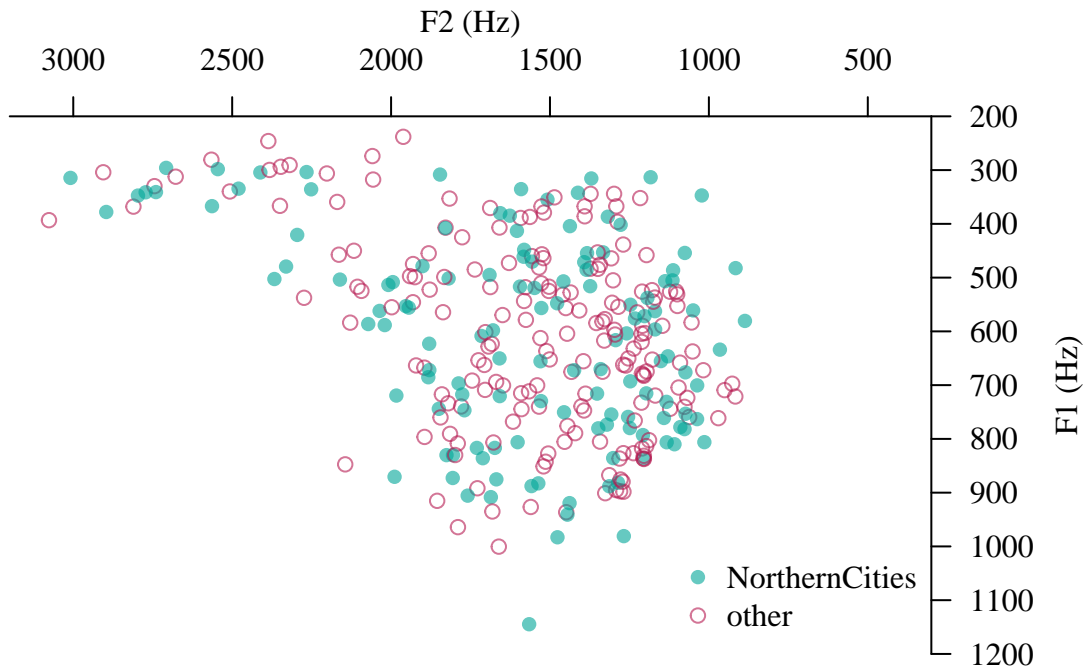
Plot of monophthong vowels for LING20101 by additional native language



Plot of monophthong vowels for LING20101 by year

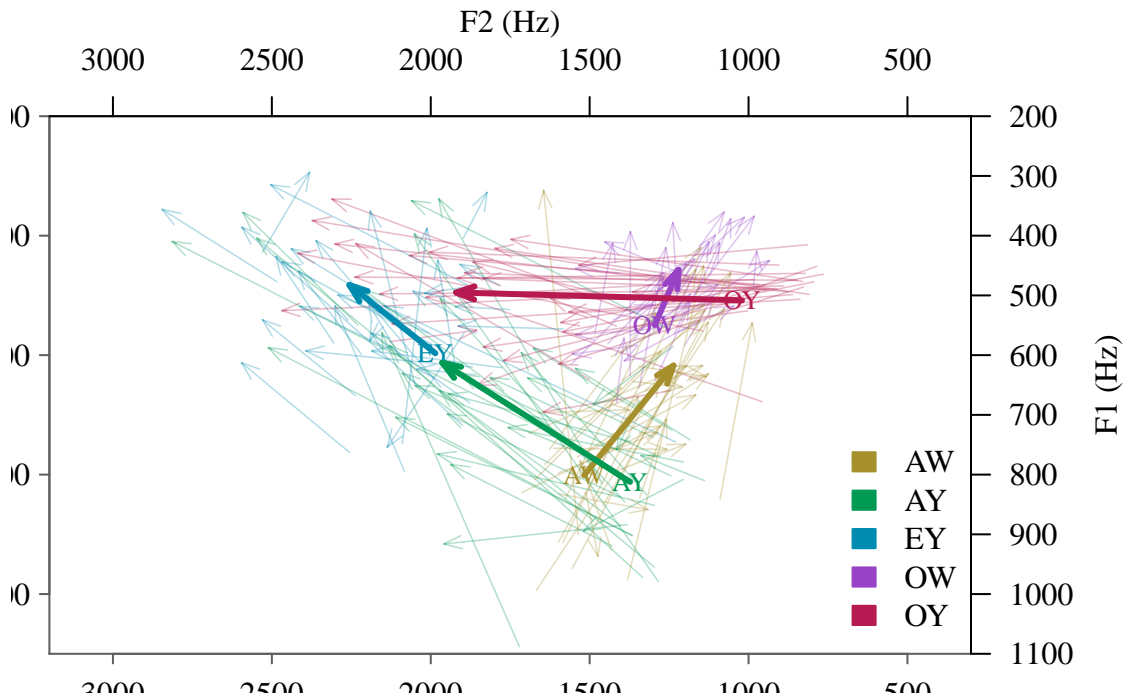


Plot of monophthong vowels for LING20101 by home



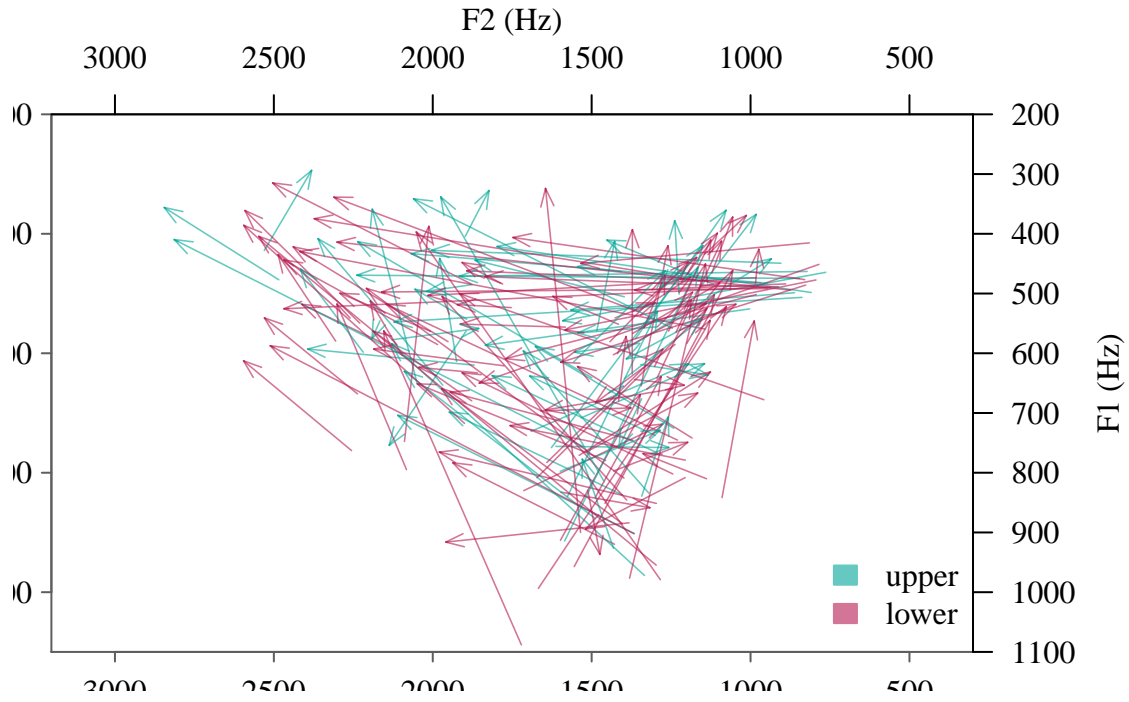
```
## Warning in (function (x0, y0, x1 = x0, y1 = y0, length = 0.25, angle =
## 30, : zero-length arrow is of indeterminate angle and so skipped
```

Plot of diphthong vowels for LING20101



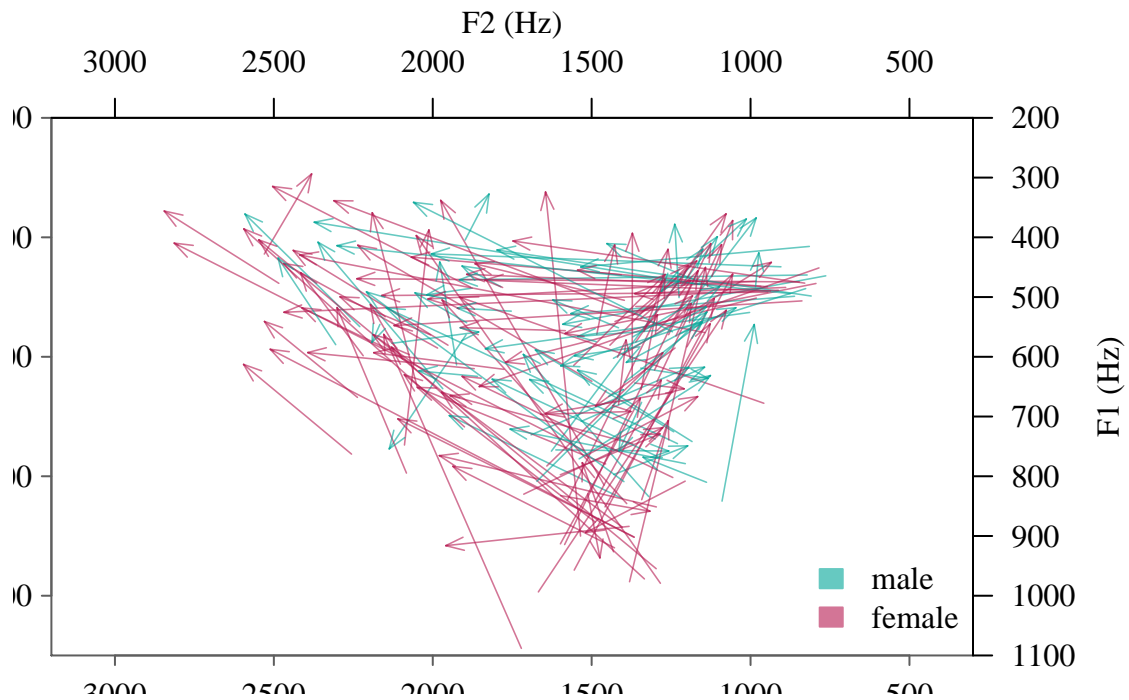
```
## Warning in (function (x0, y0, x1 = x0, y1 = y0, length = 0.25, angle =
## 30, : zero-length arrow is of indeterminate angle and so skipped
```

Plot of diphthong vowels for LING20101



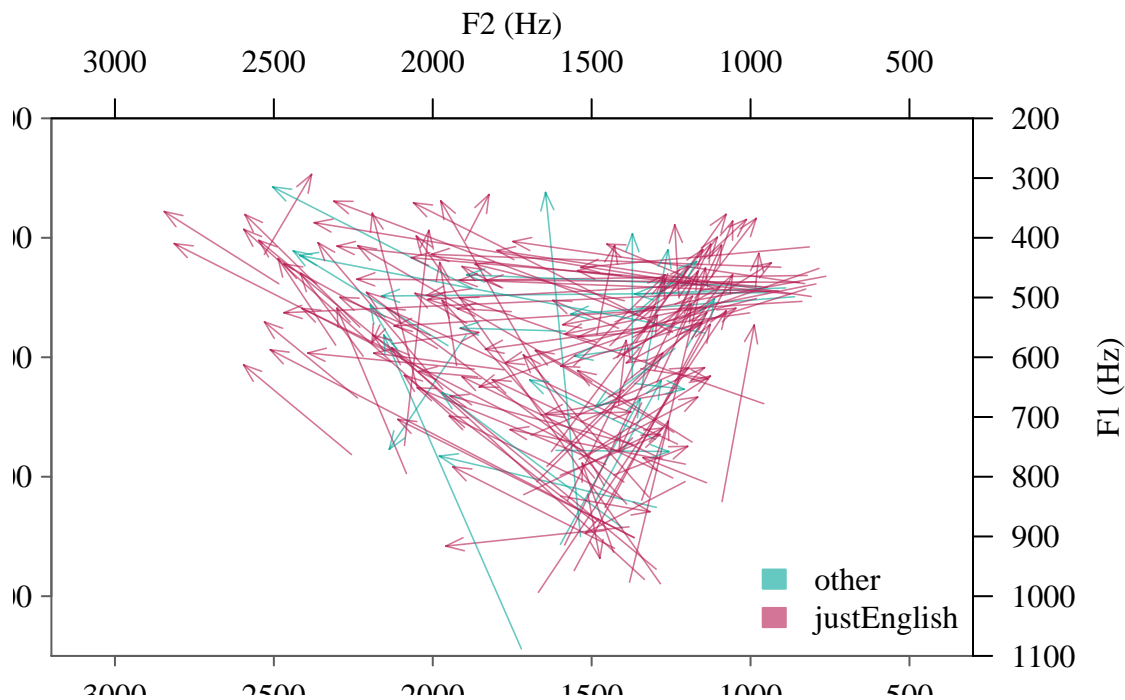
## Warning in (function (x0, y0, x1 = x0, y1 = y0, length = 0.25, angle =  
## 30, : zero-length arrow is of indeterminate angle and so skipped

Plot of diphthong vowels for LING20101



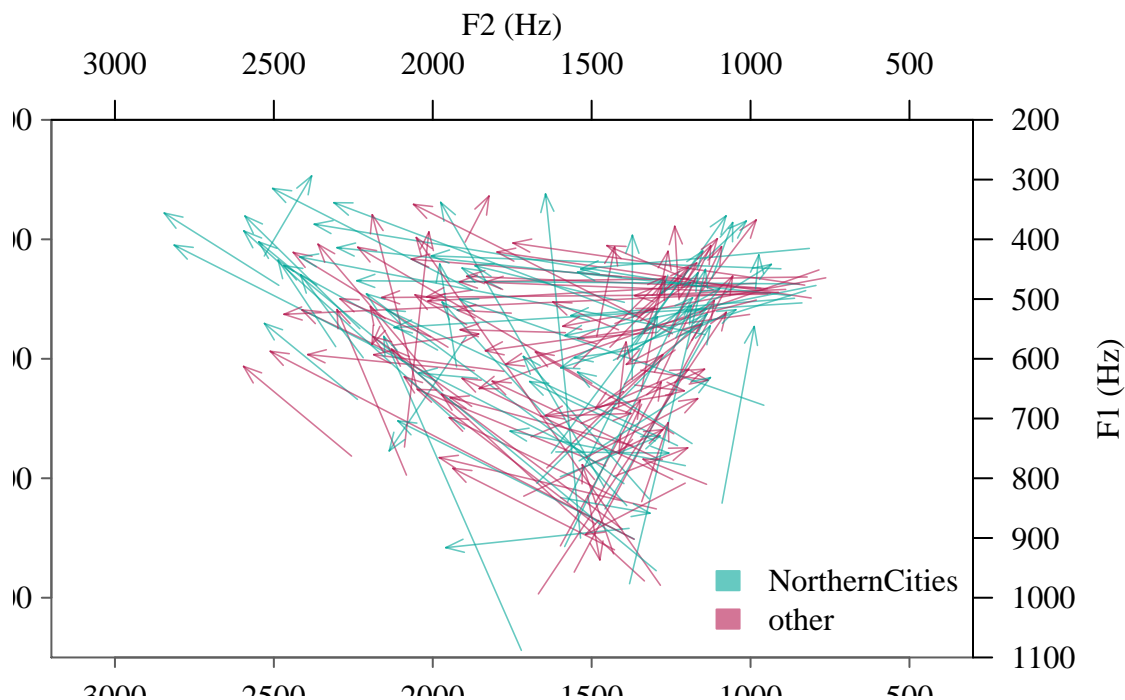
## Warning in (function (x0, y0, x1 = x0, y1 = y0, length = 0.25, angle =  
## 30, : zero-length arrow is of indeterminate angle and so skipped

Plot of diphthong vowels for LING20101 by additional native language



```
## Warning in (function (x0, y0, x1 = x0, y1 = y0, length = 0.25, angle =
## 30, : zero-length arrow is of indeterminate angle and so skipped
```

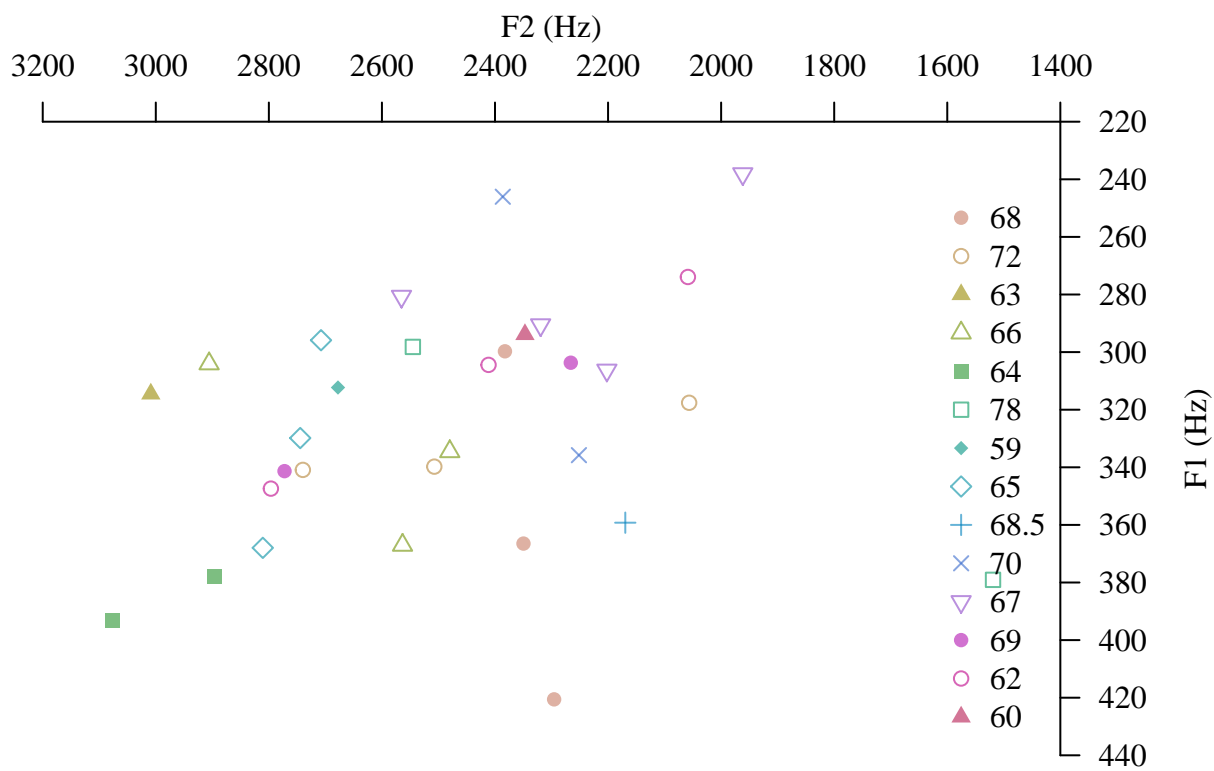
Plot of diphthong vowels for LING20101 by home



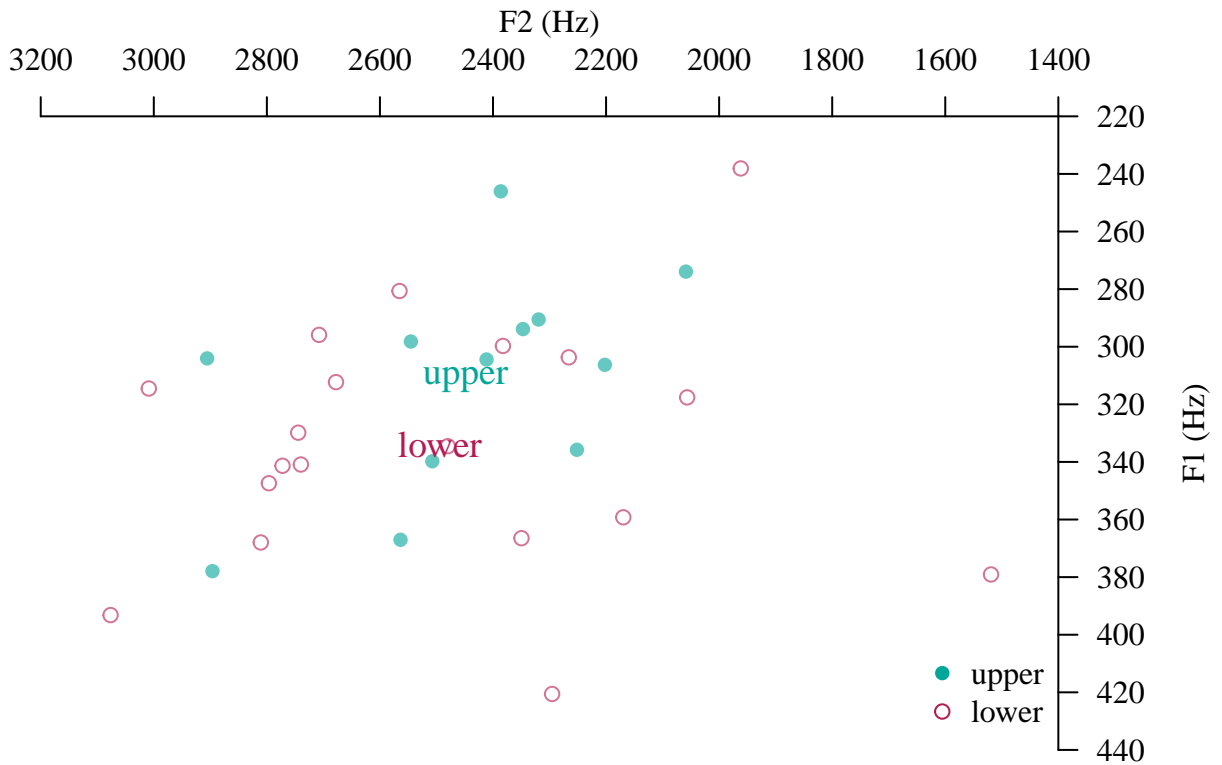
```
## [1] "PLOTS FOR MONOPHTHONG DATA"
```

## [1] "PLOTS FOR VOWEL IY"

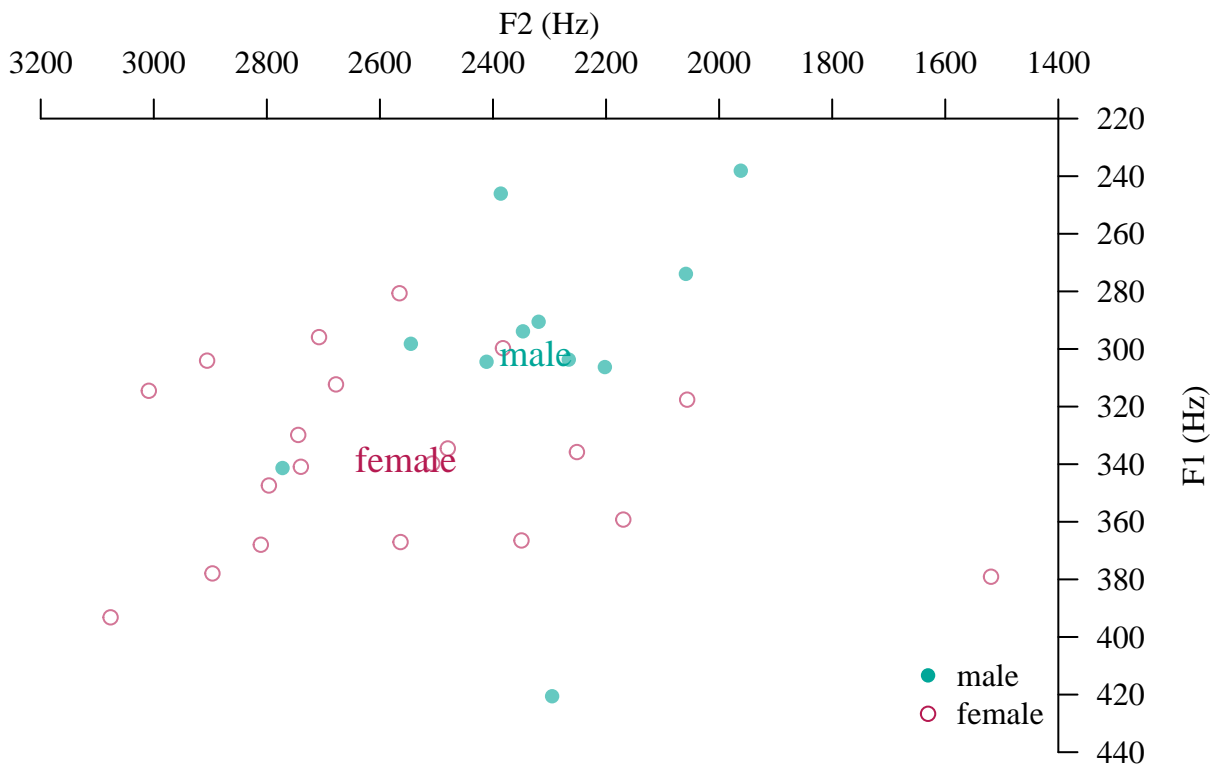
Plot of IY for LING20101 by height



Plot of IY for LING20101 by year

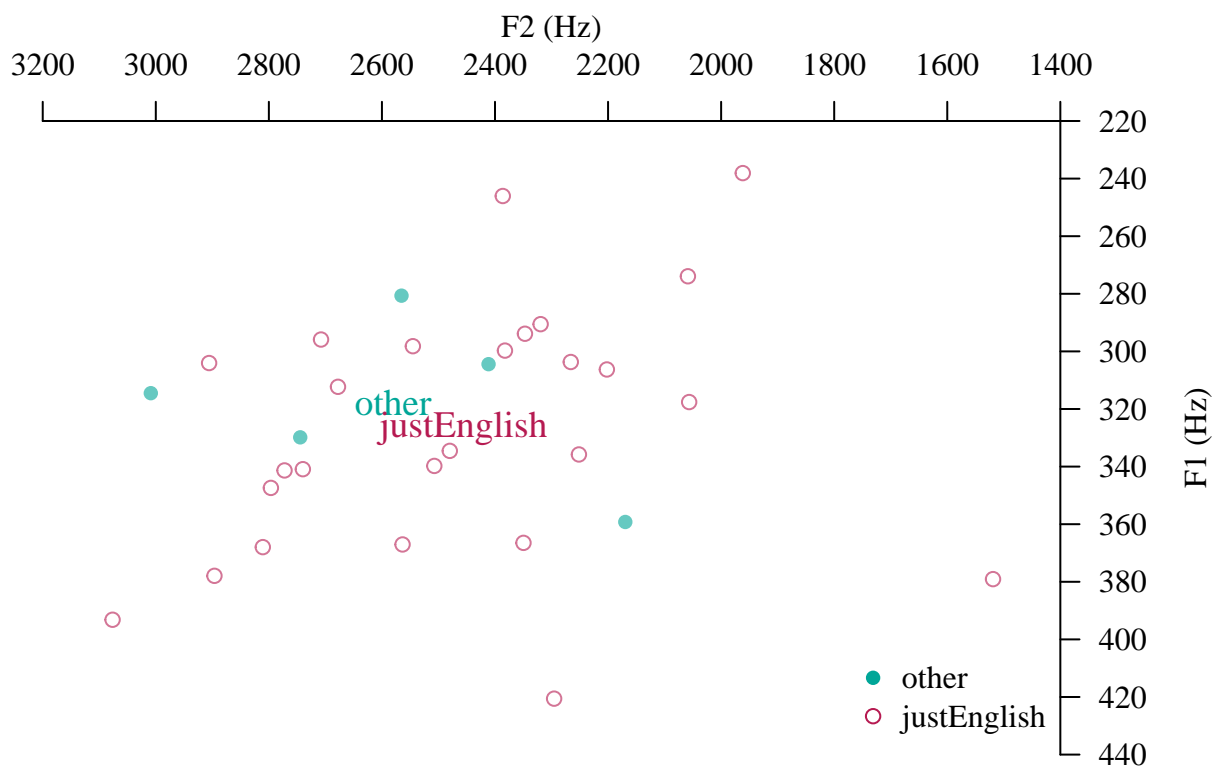


Plot of IY for LING20101 by sex

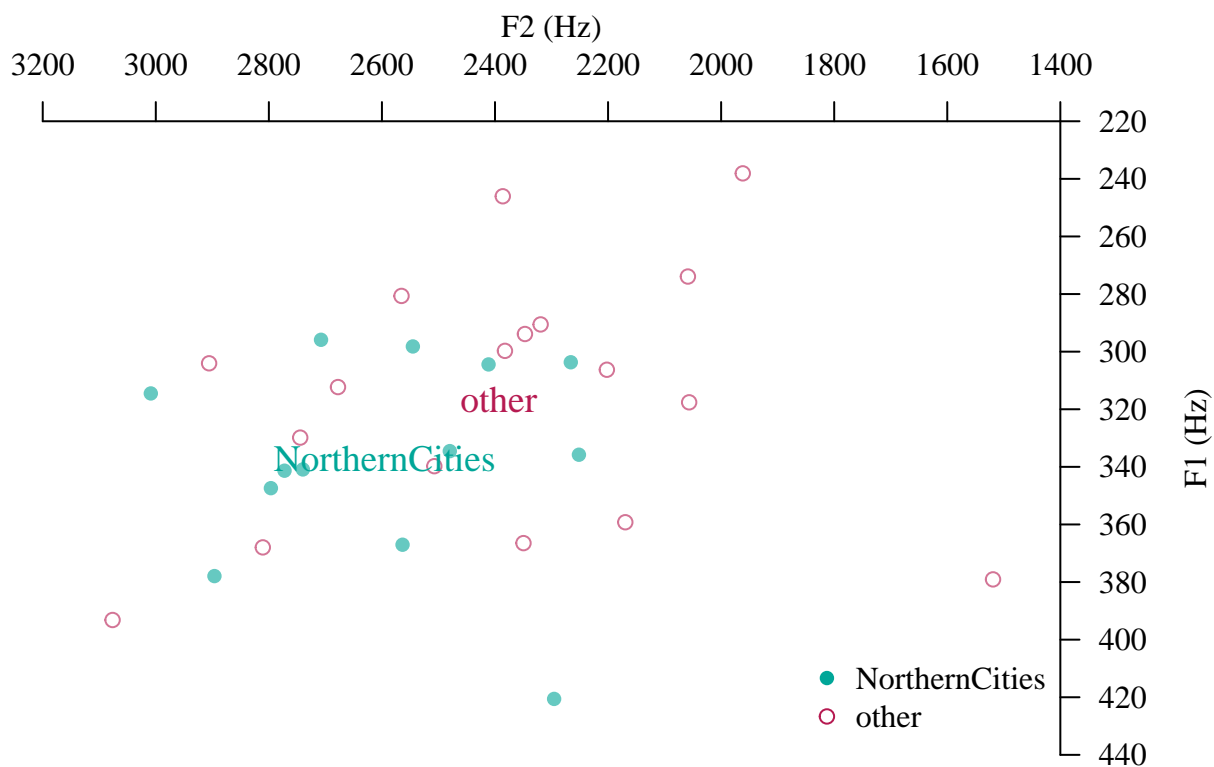




Plot of IY for LING20101 by additional native language

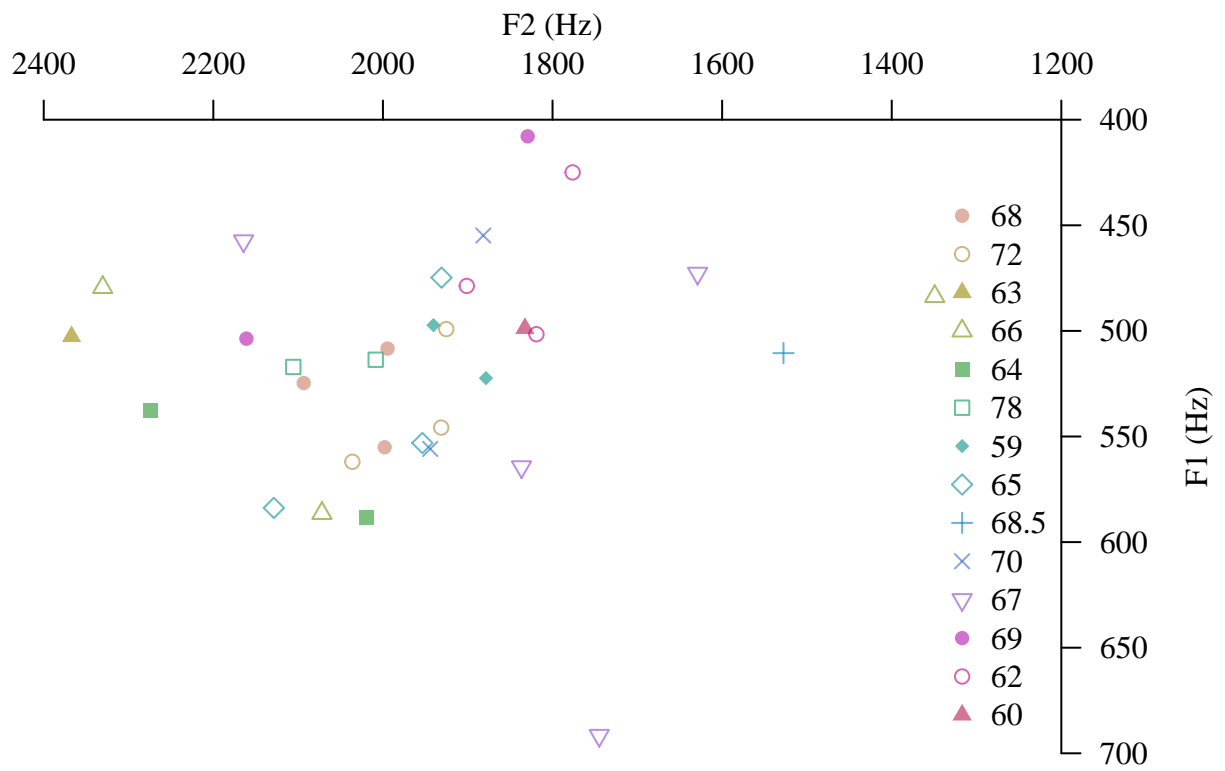


Plot of IY for LING20101 by home

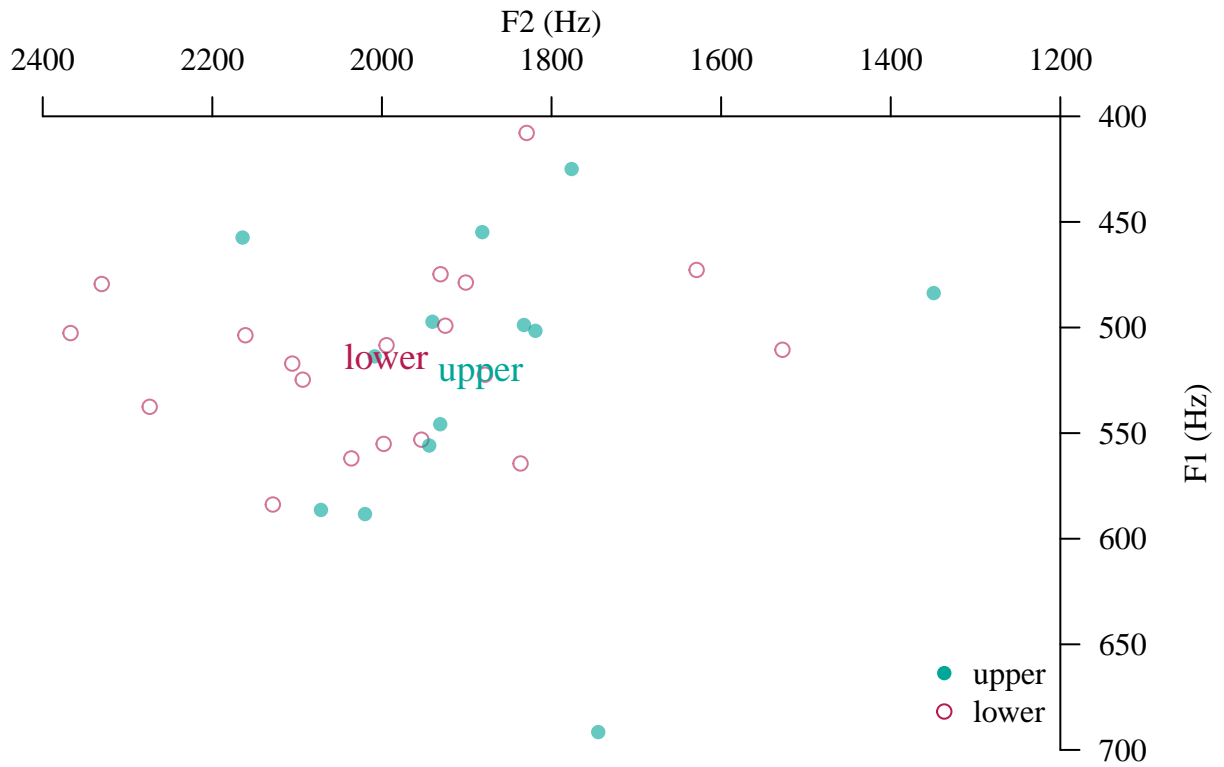


## [1] "PLOTS FOR VOWEL IH"

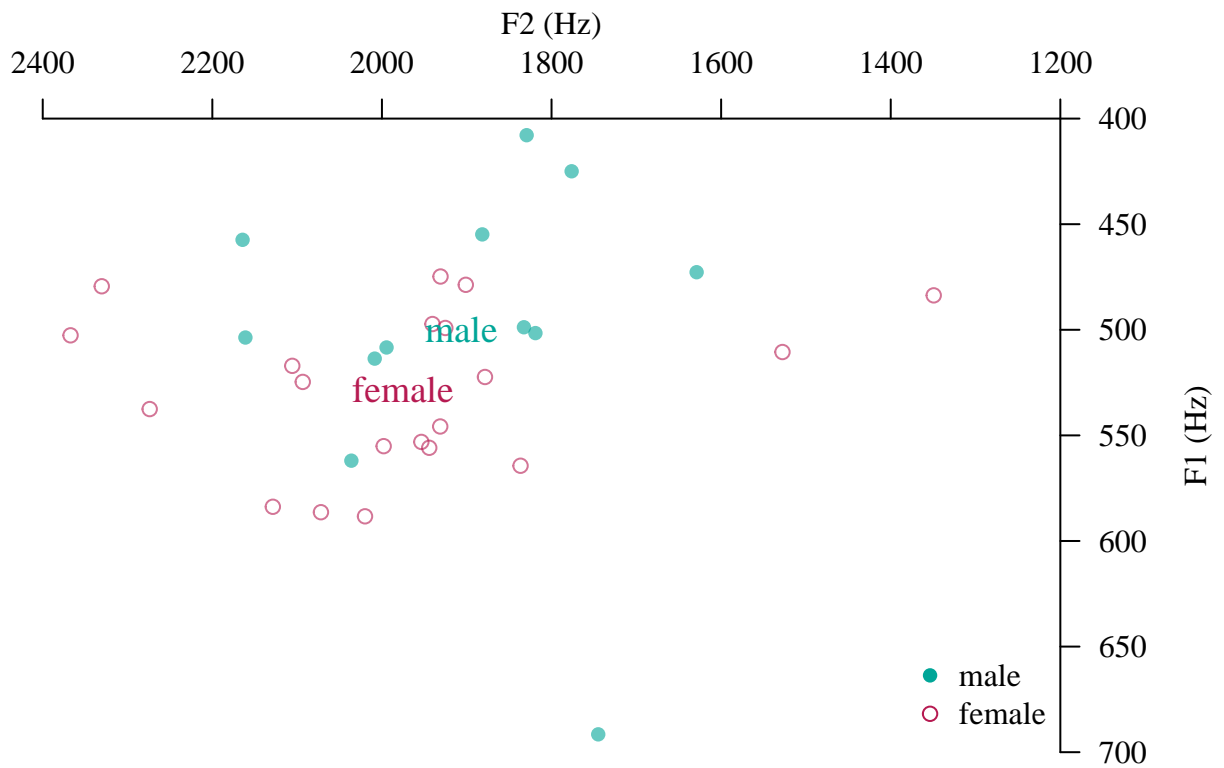
Plot of IH for LING20101 by height



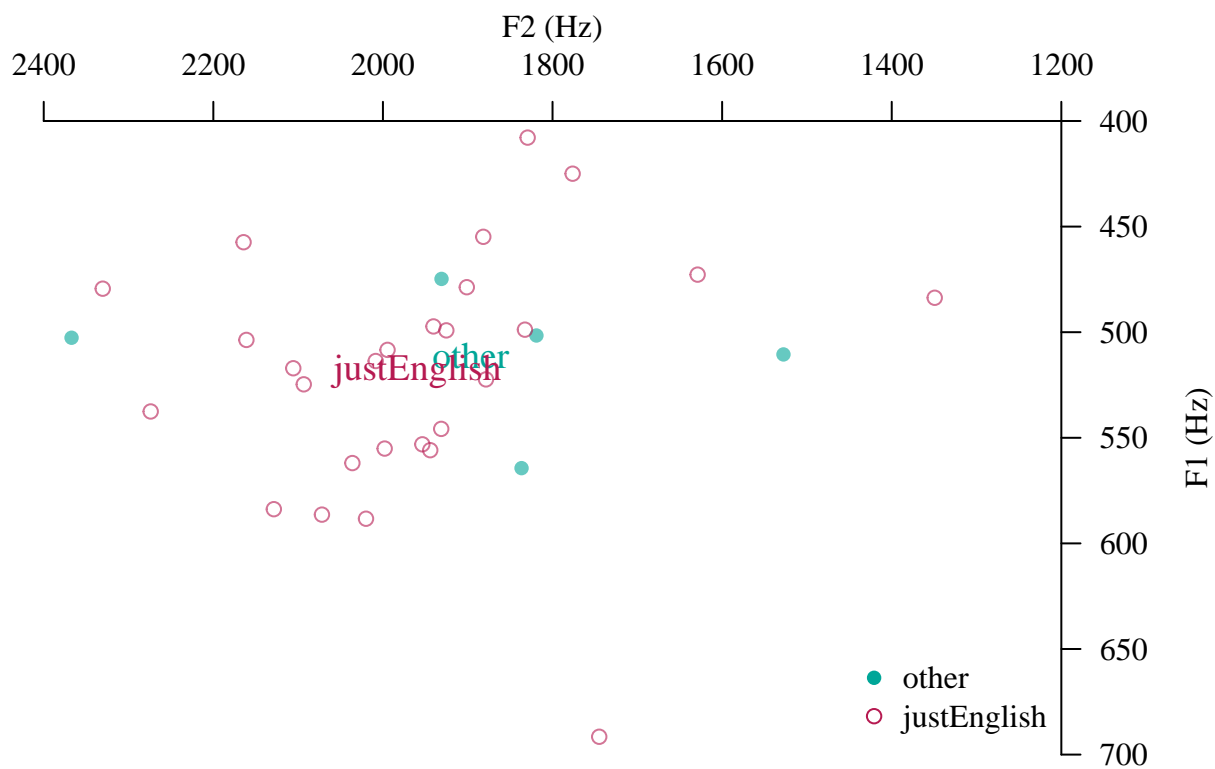
Plot of IH for LING20101 by year



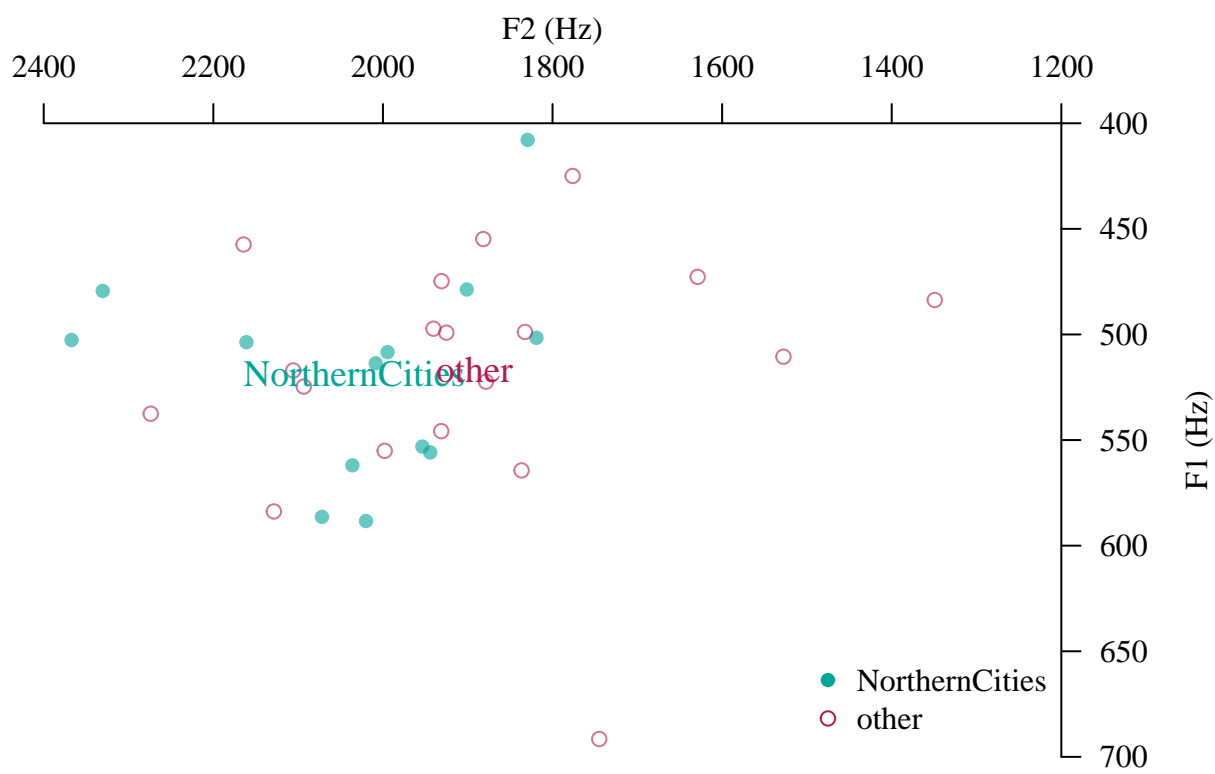
Plot of IH for LING20101 by sex



Plot of IH for LING20101 by additional native language

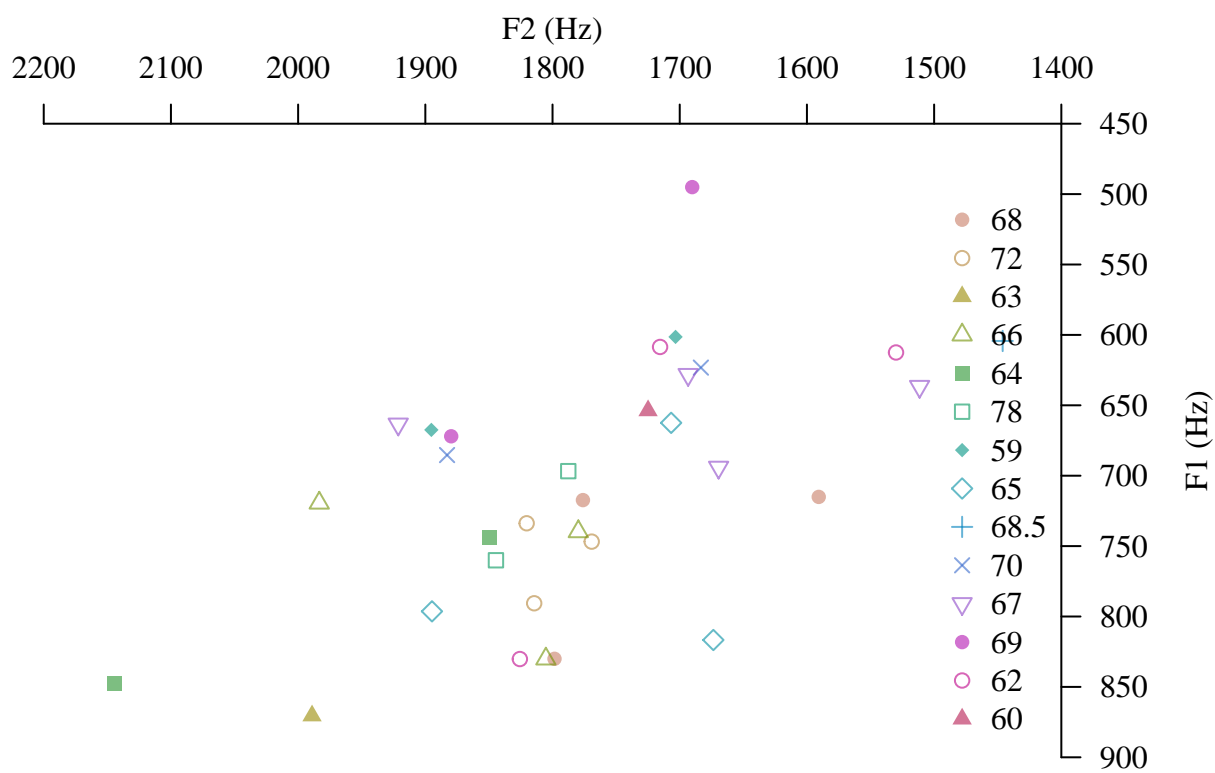


Plot of IH for LING20101 by home

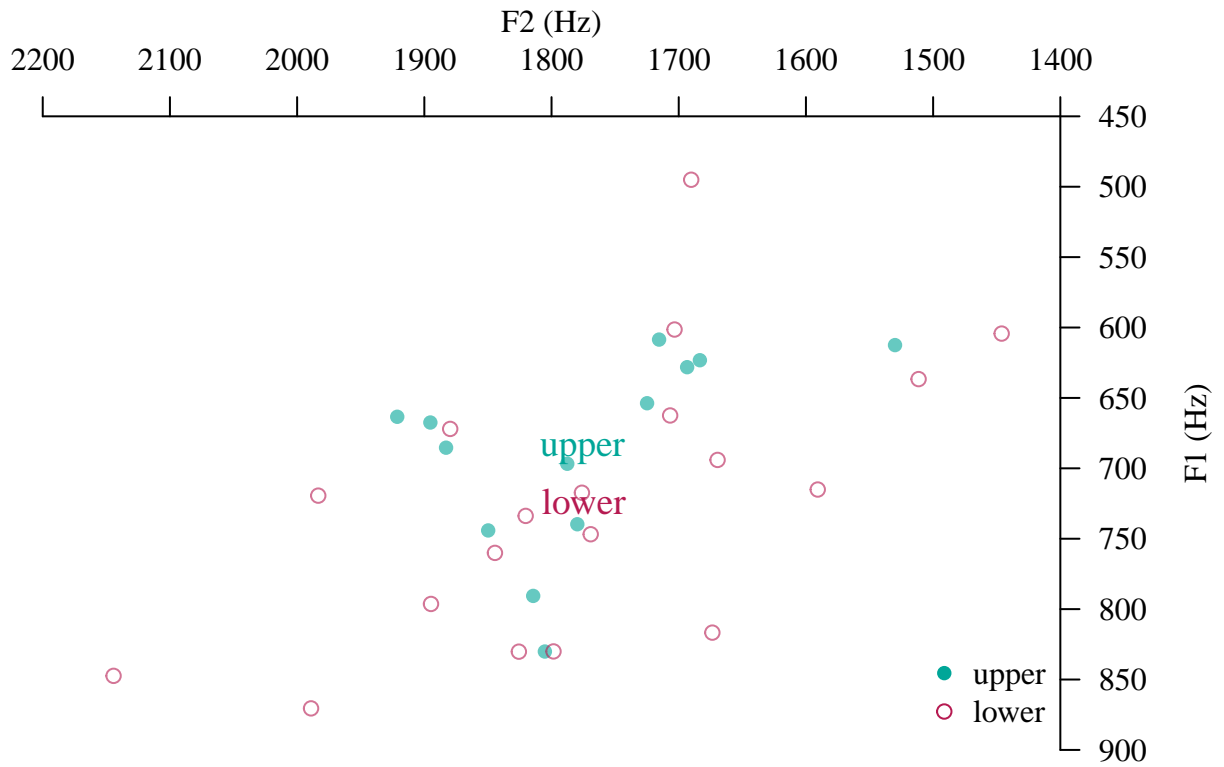


```
## [1] "PLOTS FOR VOWEL EH"
```

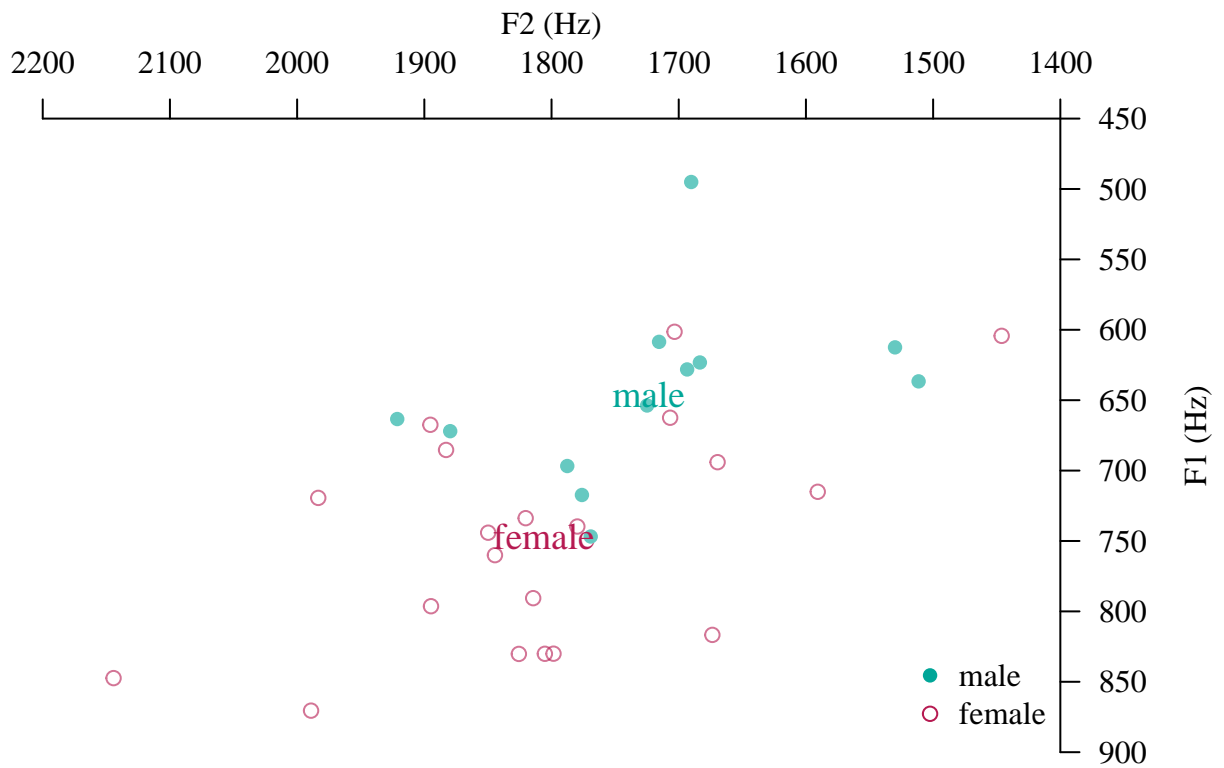
Plot of EH for LING20101 by height



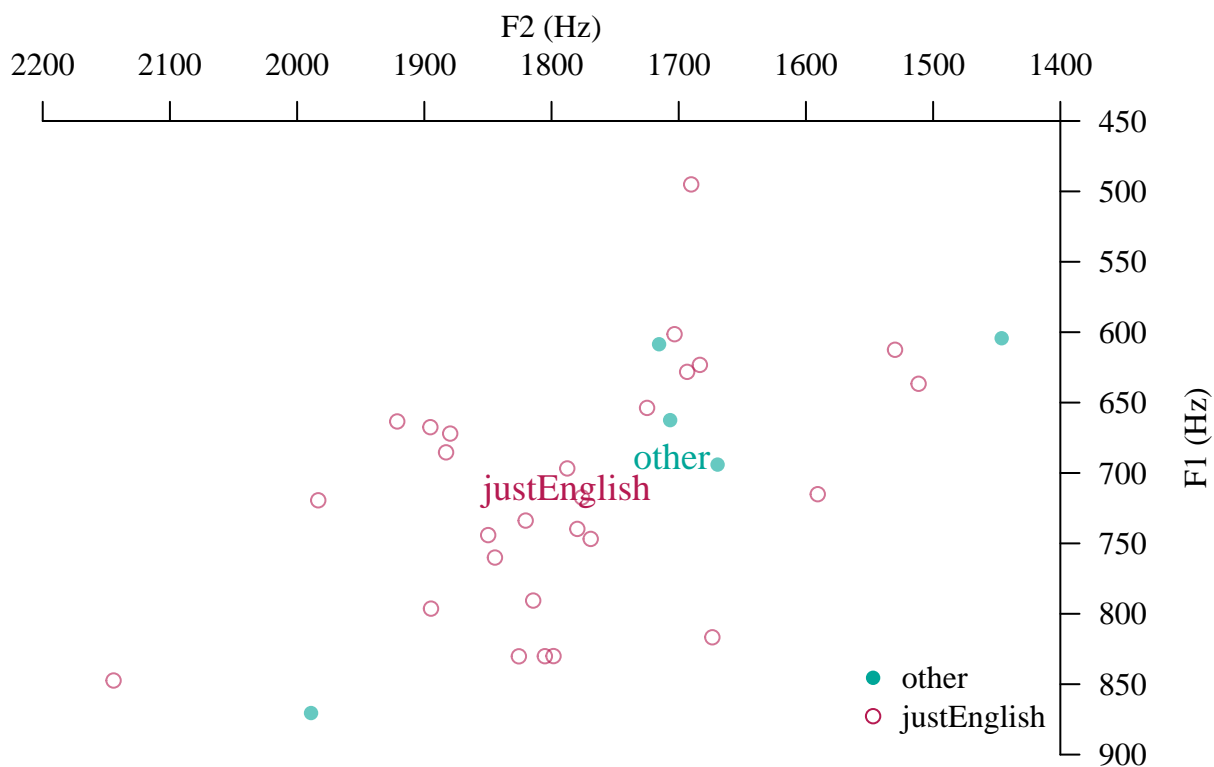
Plot of EH for LING20101 by year



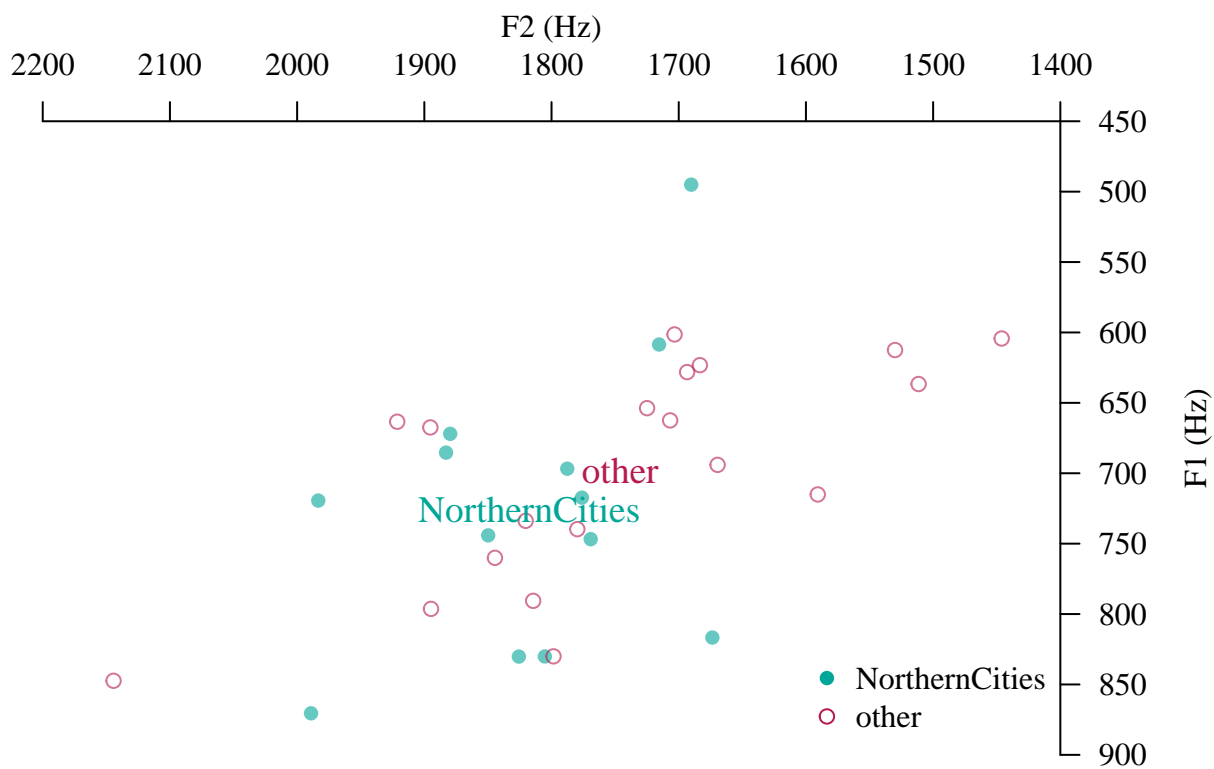
Plot of EH for LING20101 by sex



Plot of EH for LING20101 by additional native language

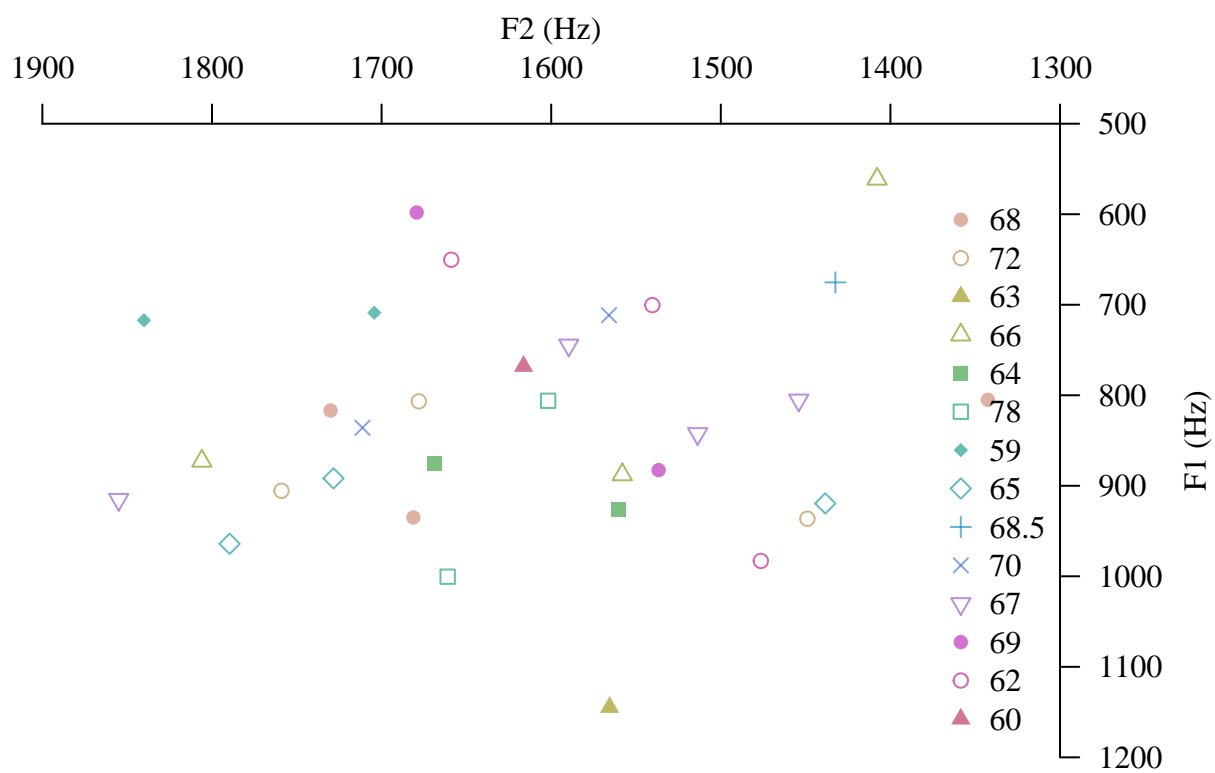


Plot of EH for LING20101 by home



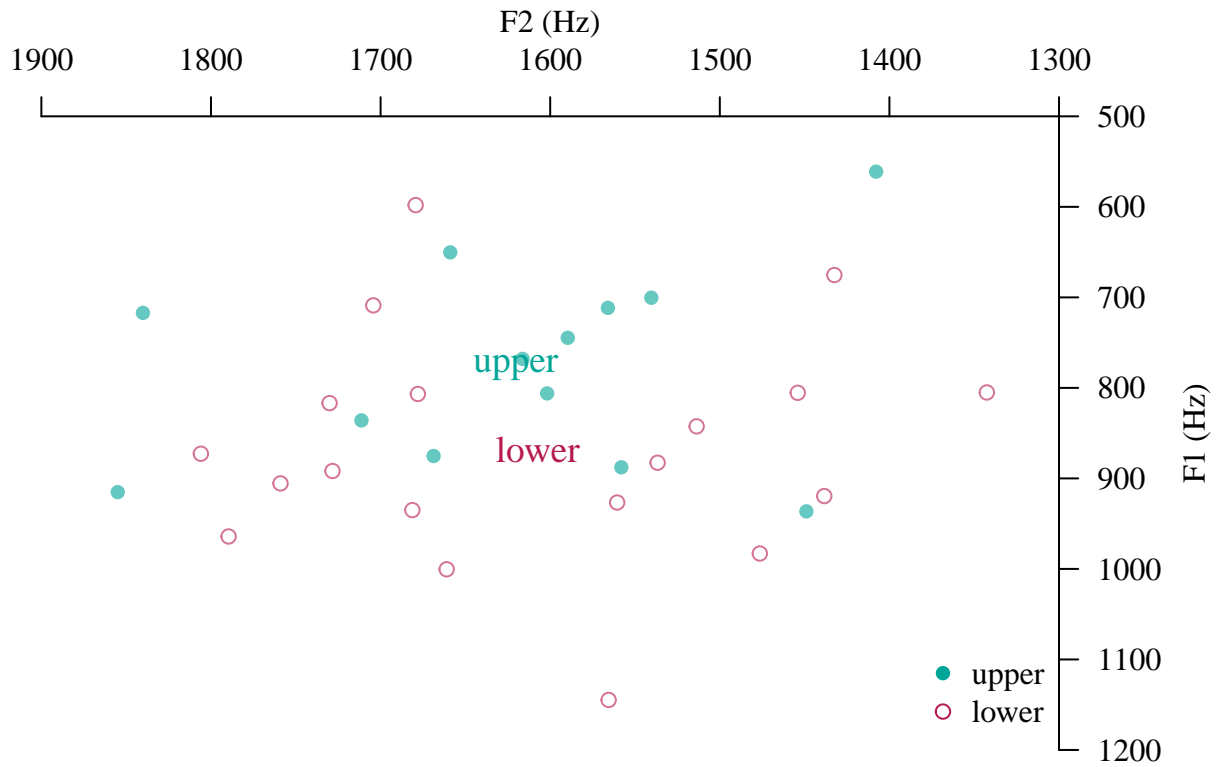
```
## [1] "PLOTS FOR VOWEL AE"
```

Plot of AE for LING20101 by height

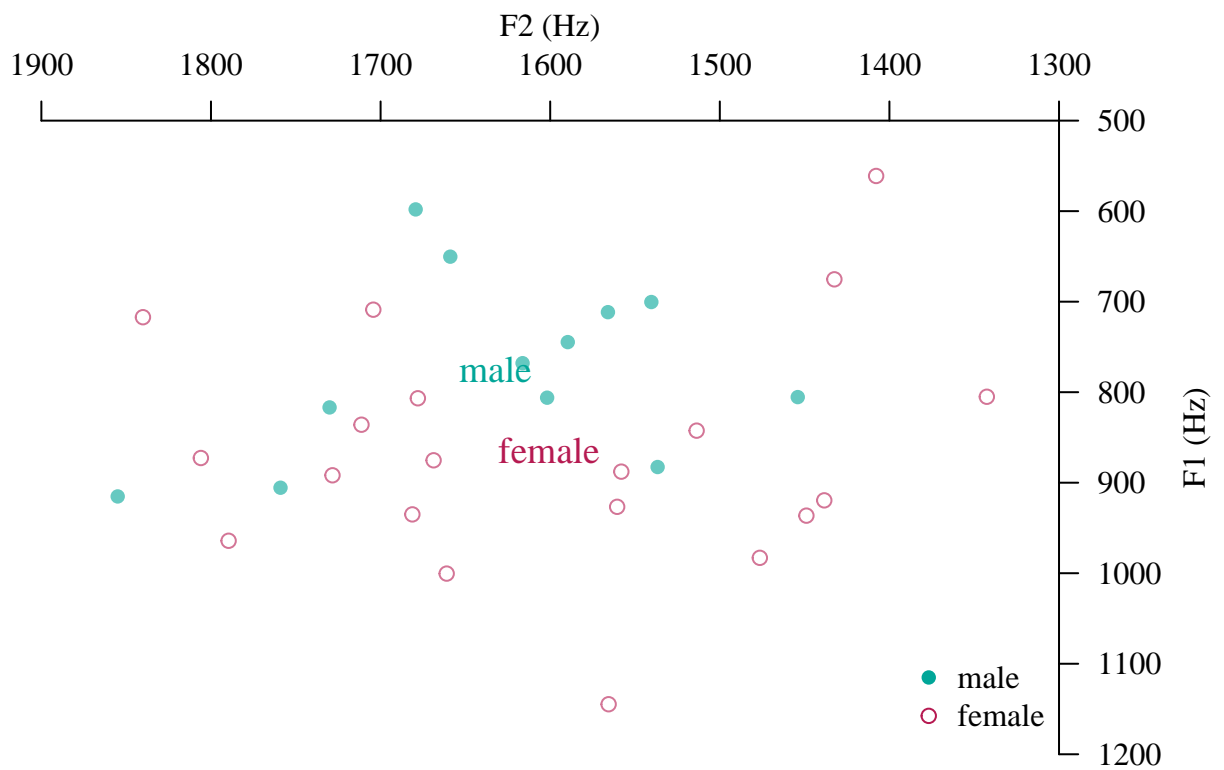




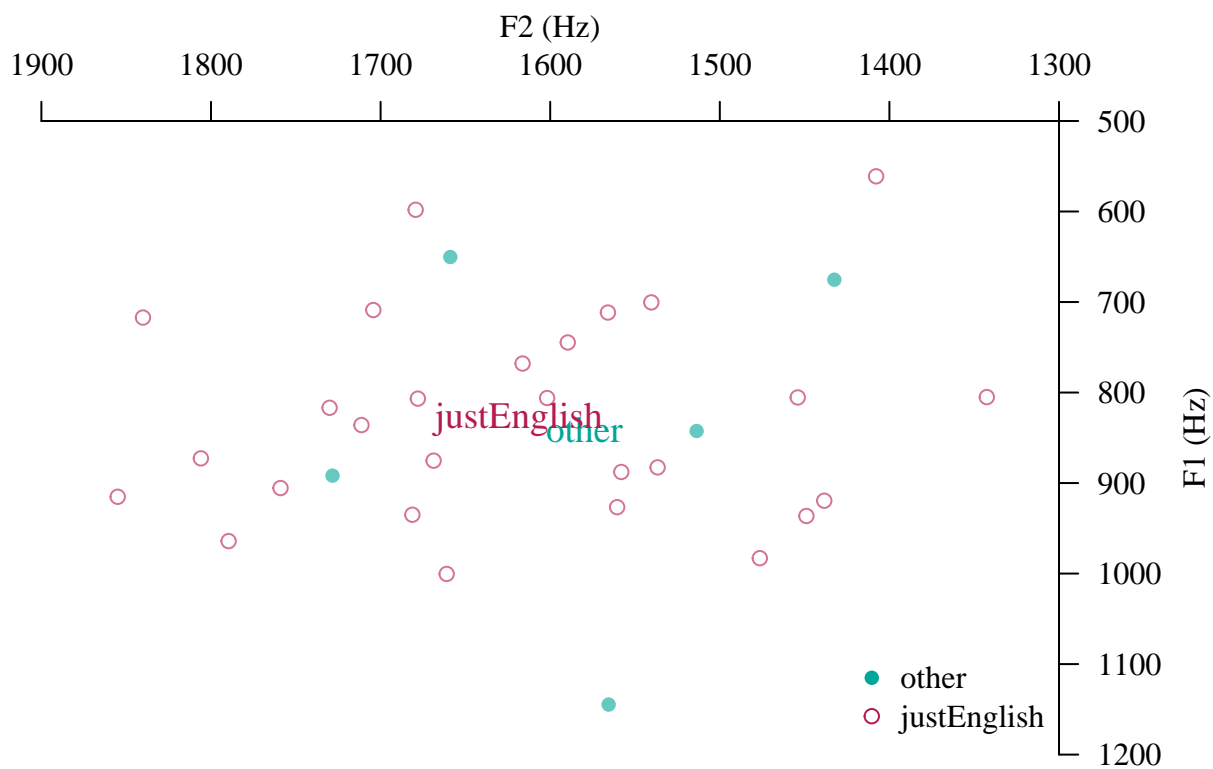
Plot of AE for LING20101 by year



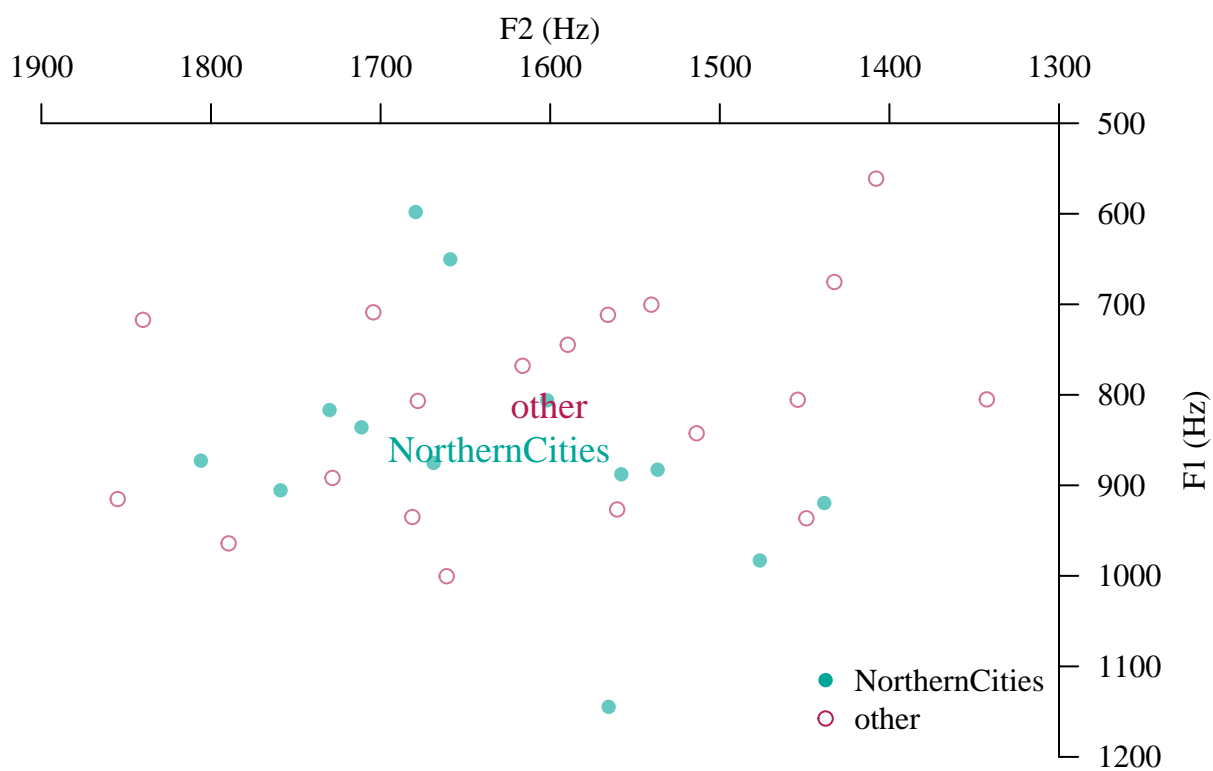
Plot of AE for LING20101 by sex



Plot of AE for LING20101 by additional native language

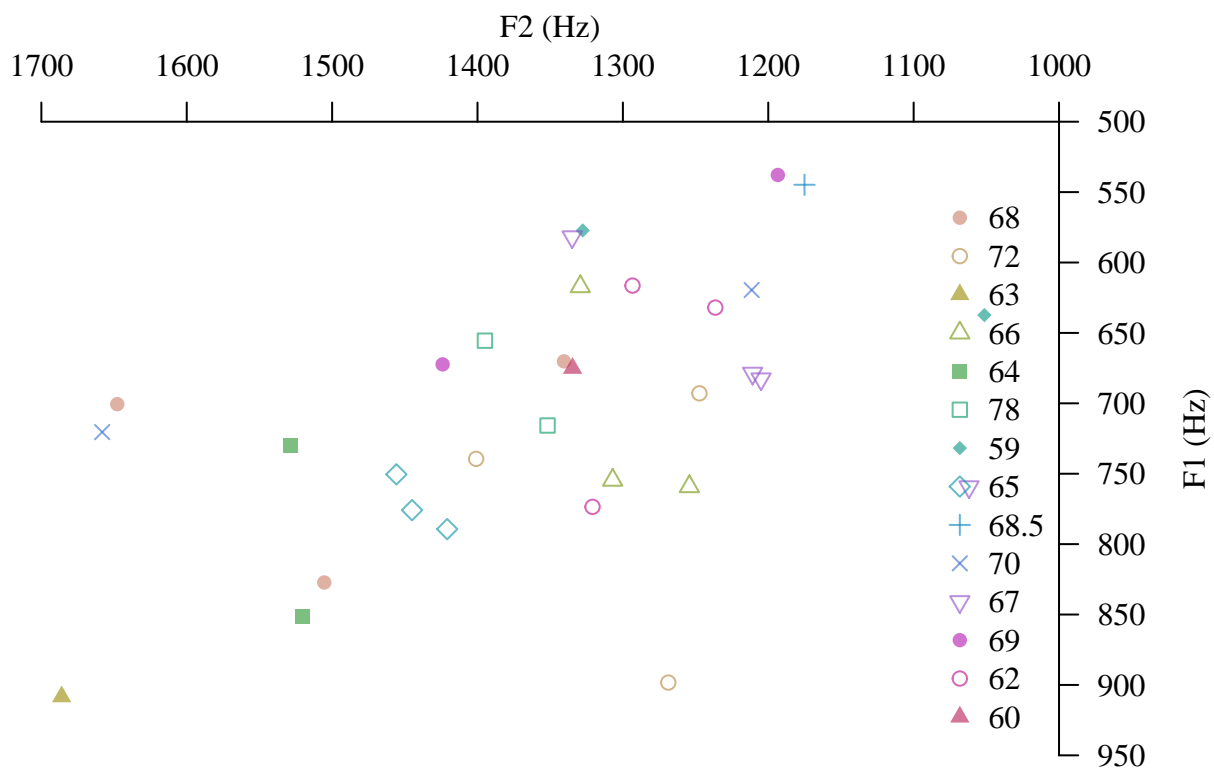


Plot of AE for LING20101 by home

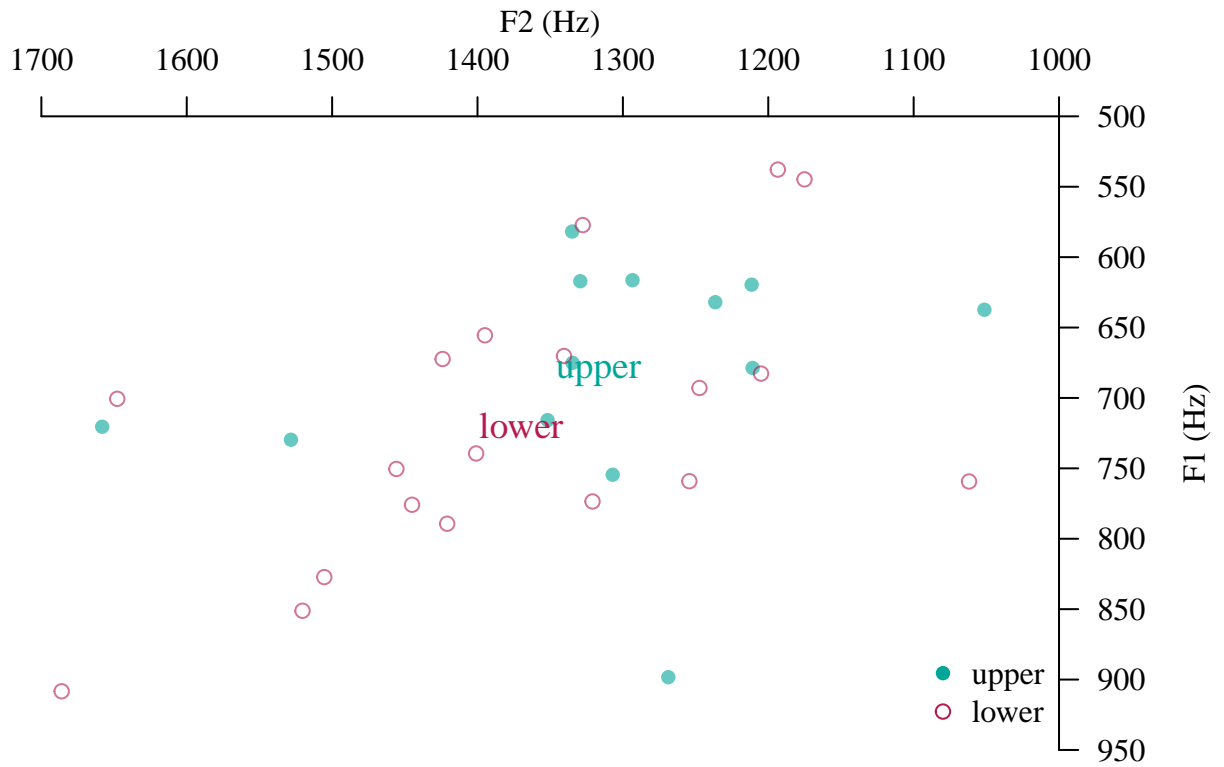


## [1] "PLOTS FOR VOWEL AH"

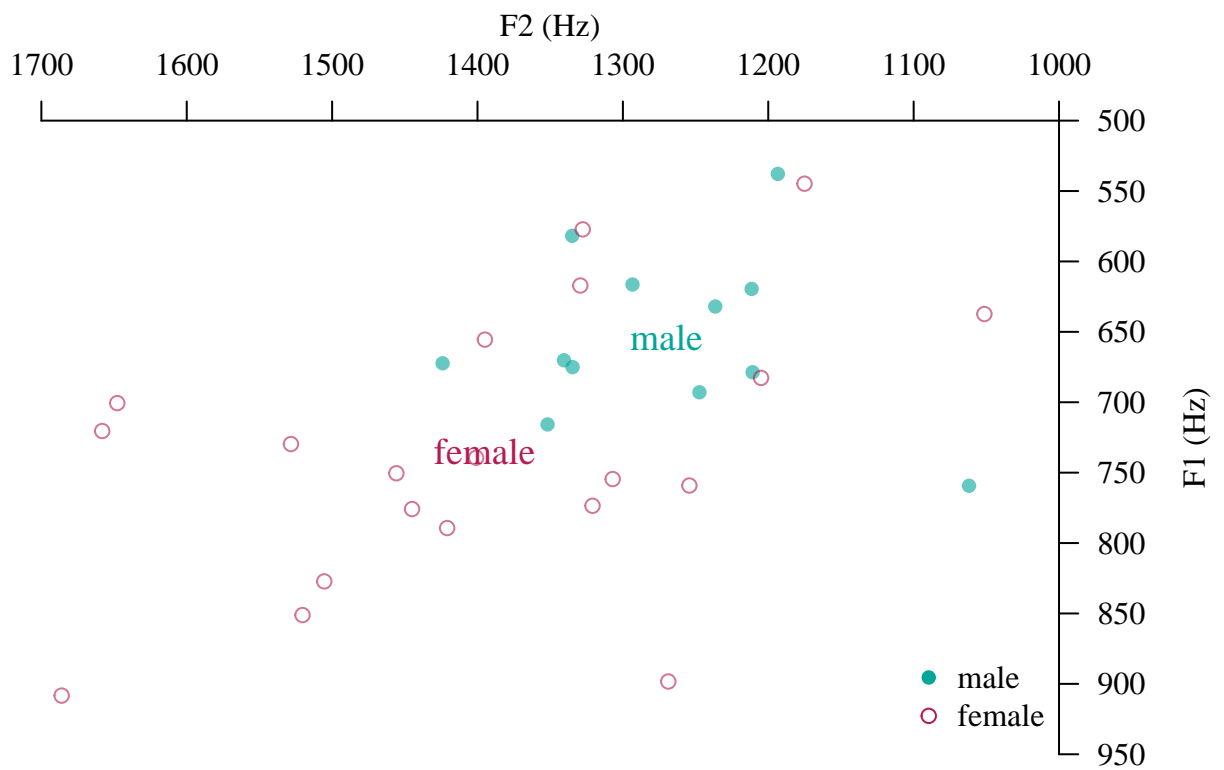
Plot of AH for LING20101 by height



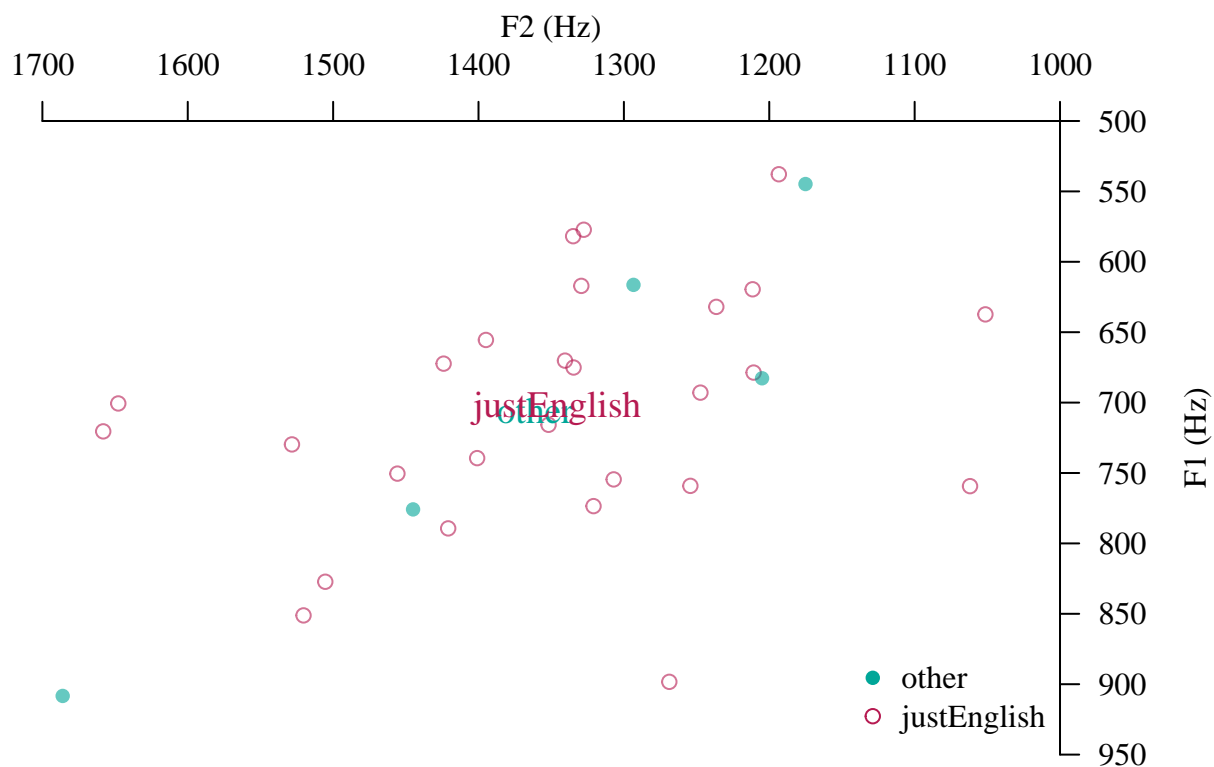
Plot of AH for LING20101 by year



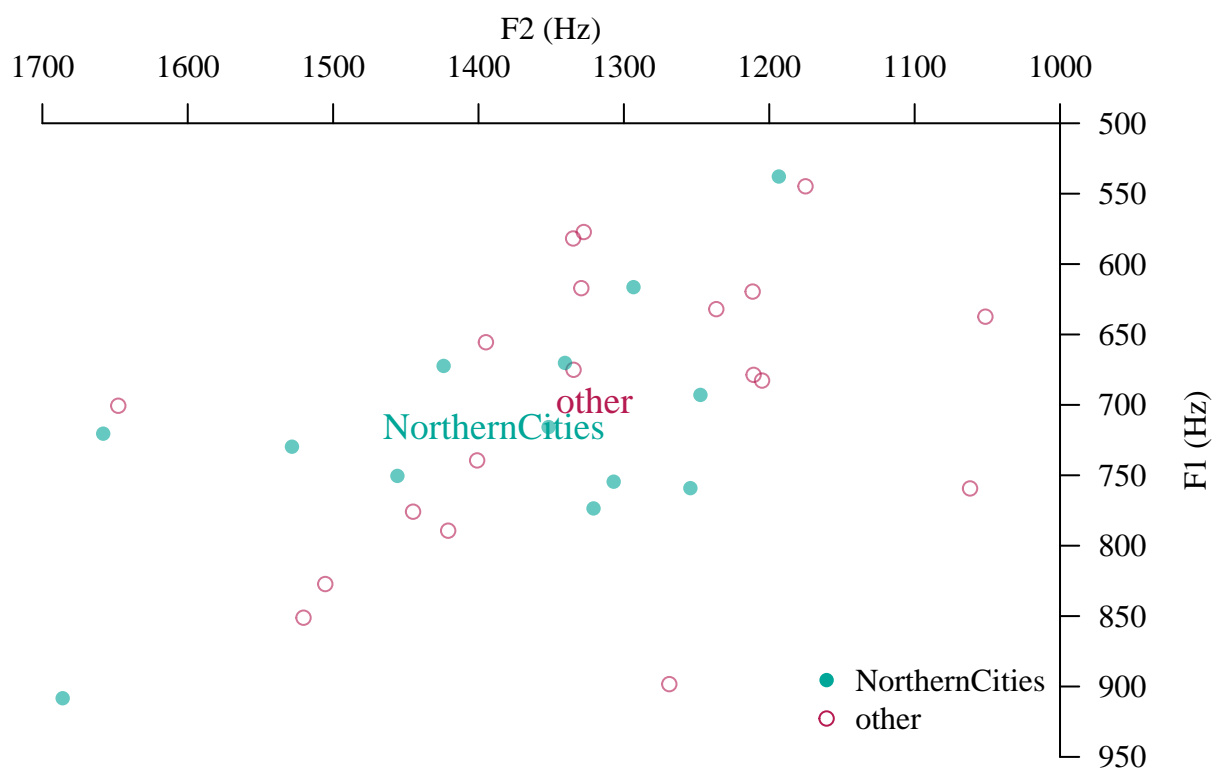
Plot of AH for LING20101 by sex



Plot of AH for LING20101 by additional native language

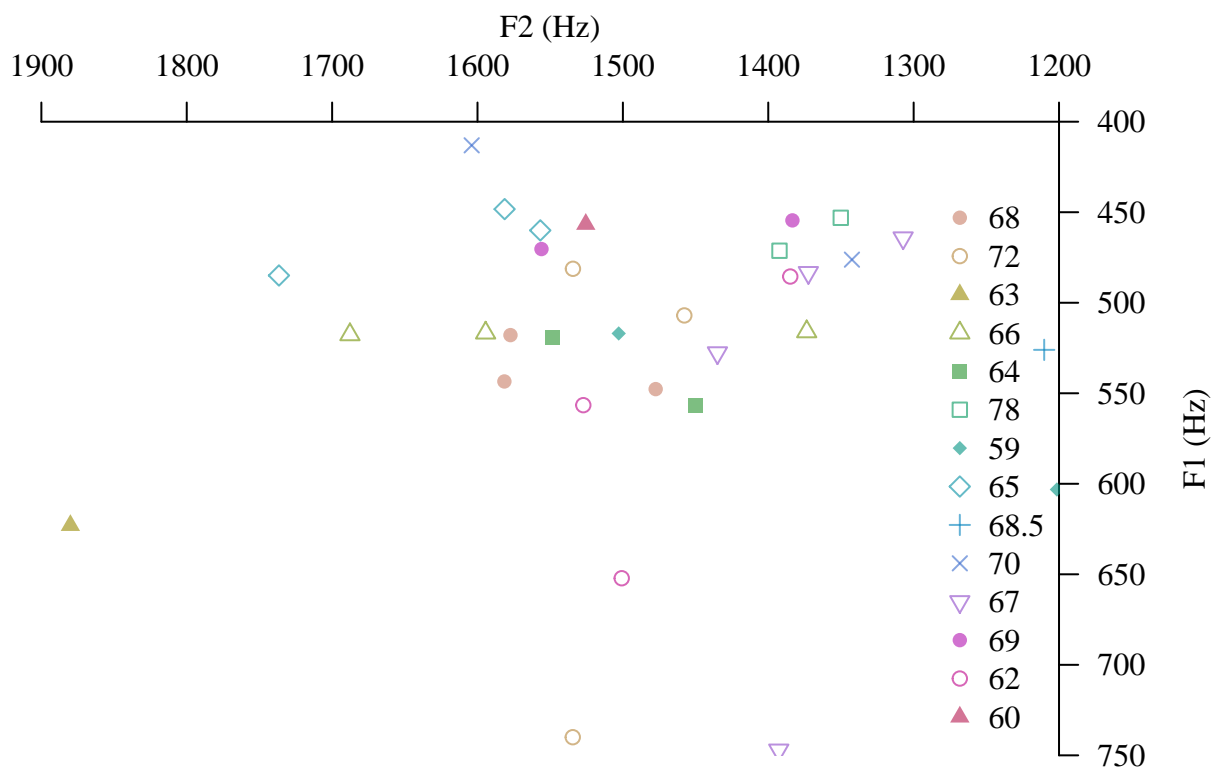


Plot of AH for LING20101 by home

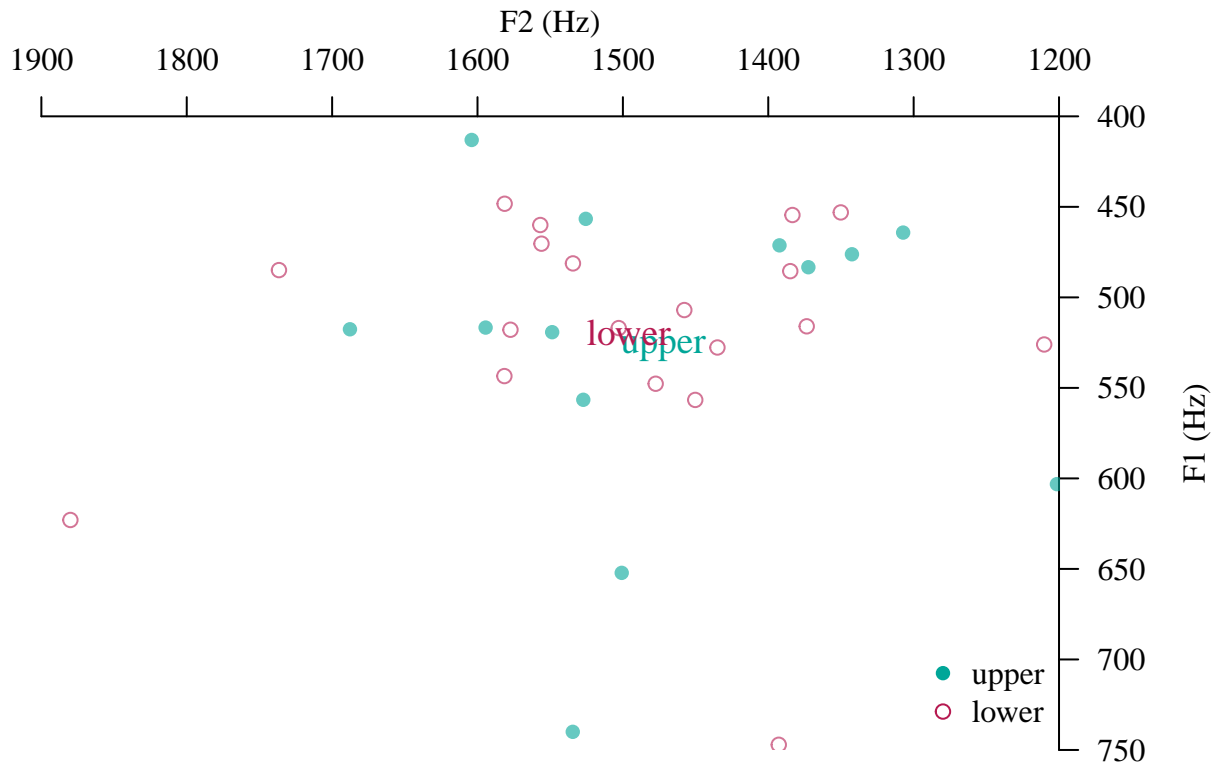


```
## [1] "PLOTS FOR VOWEL AXR"
```

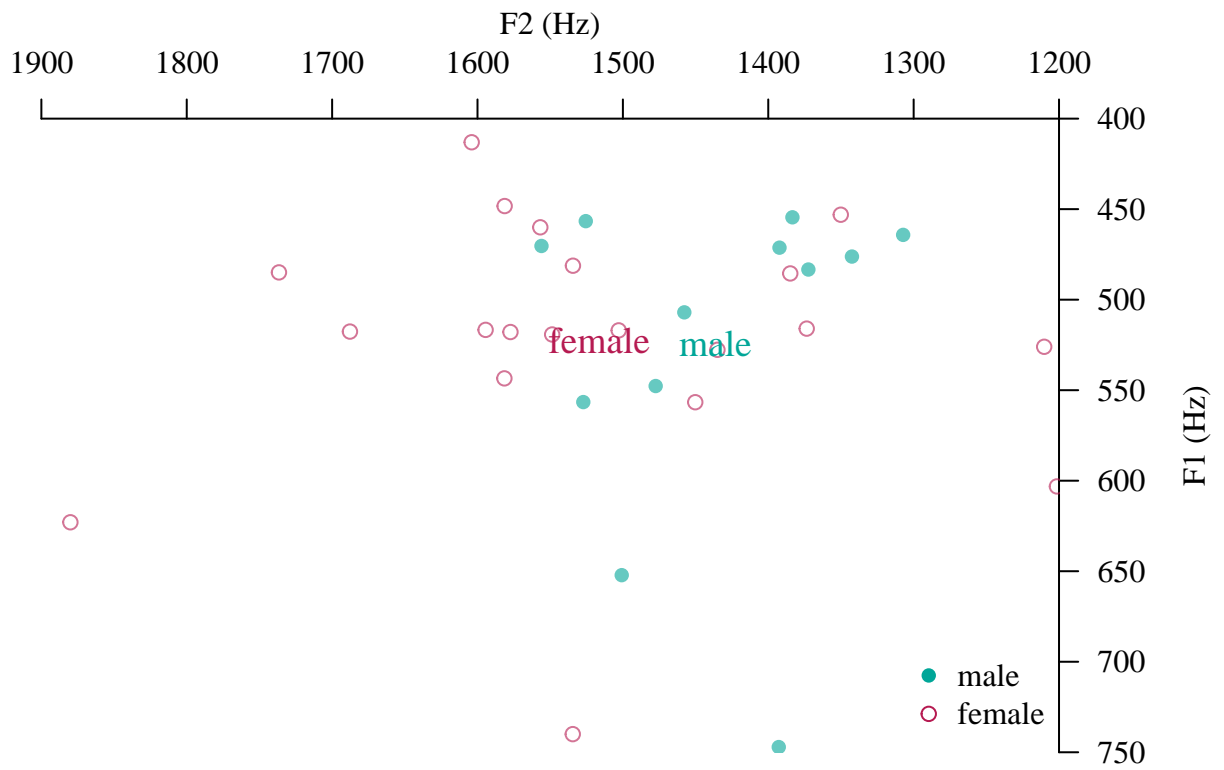
Plot of AXR for LING20101 by height



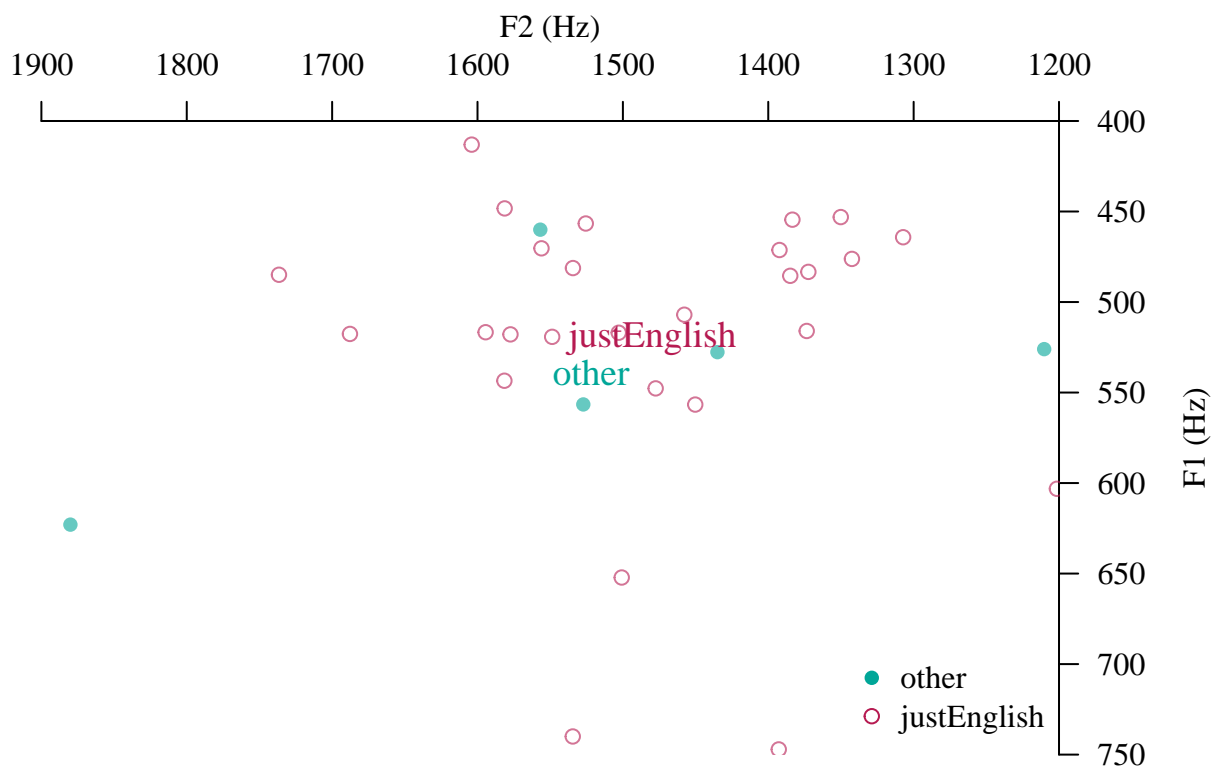
Plot of AXR for LING20101 by year



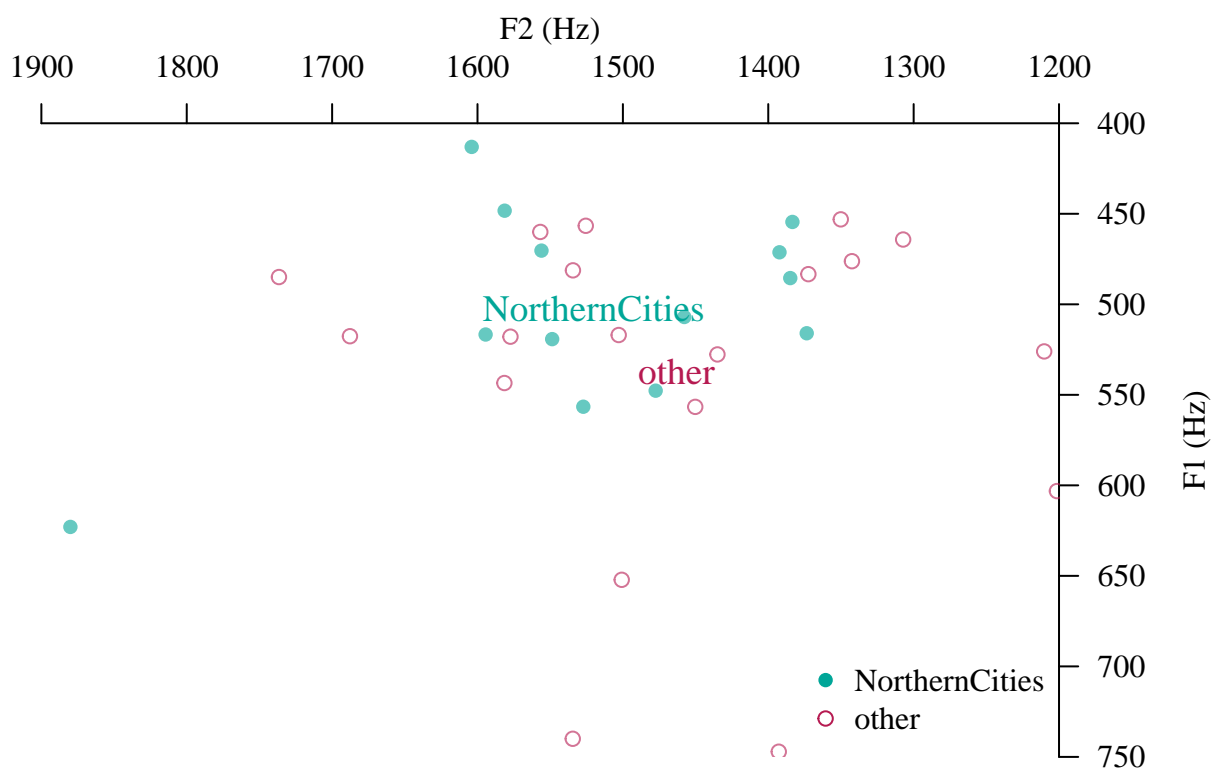
Plot of AXR for LING20101 by sex



Plot of AXR for LING20101 by additional native language



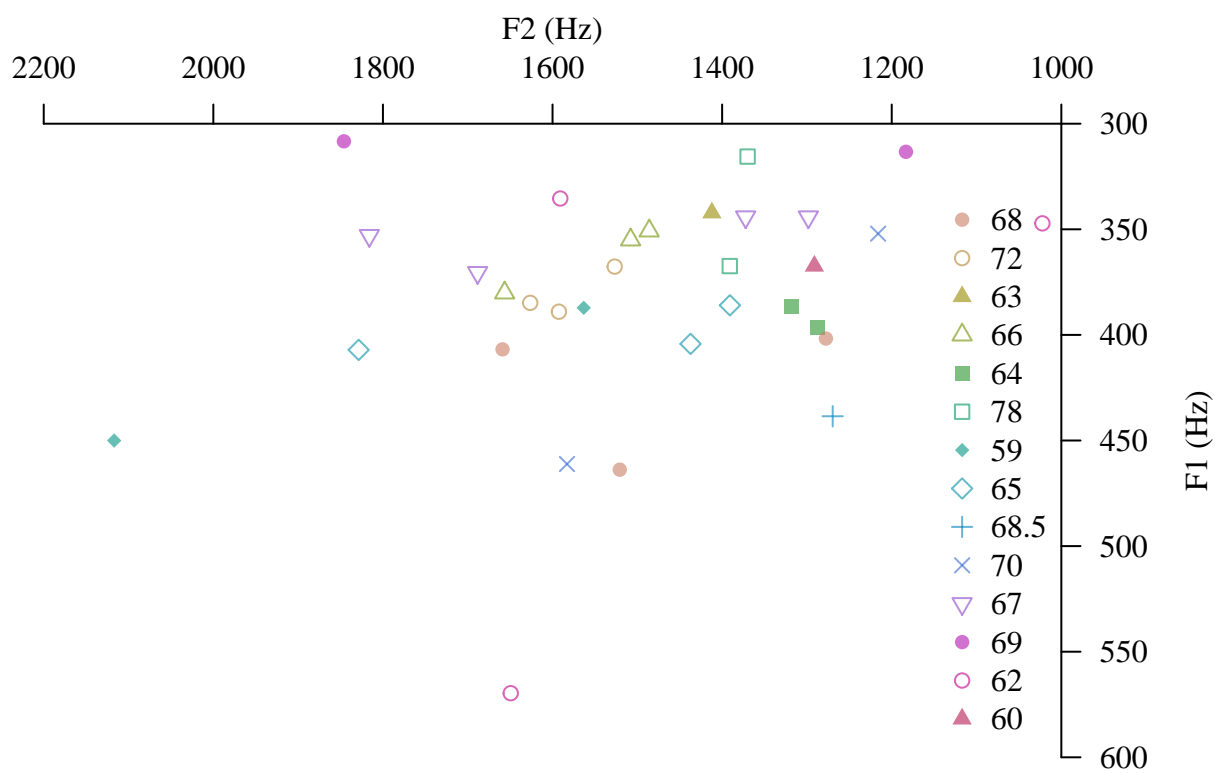
Plot of AXR for LING20101 by home



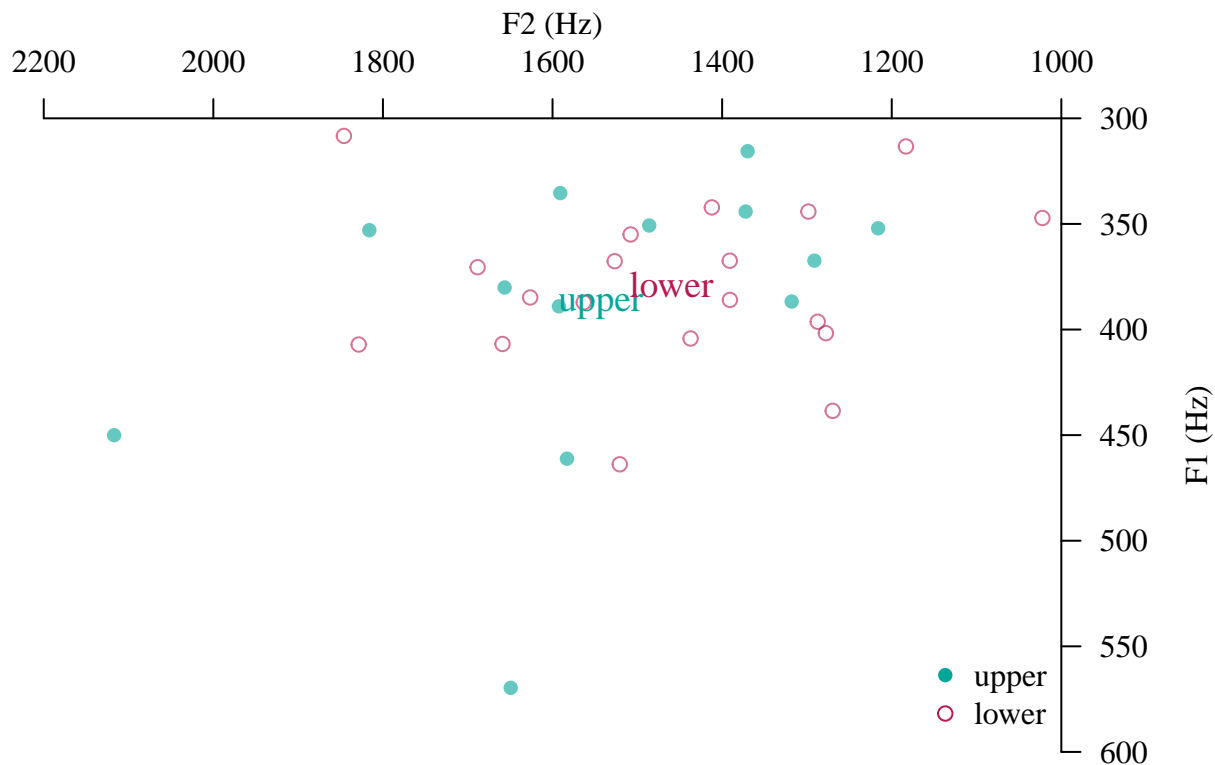


## [1] "PLOTS FOR VOWEL UW"

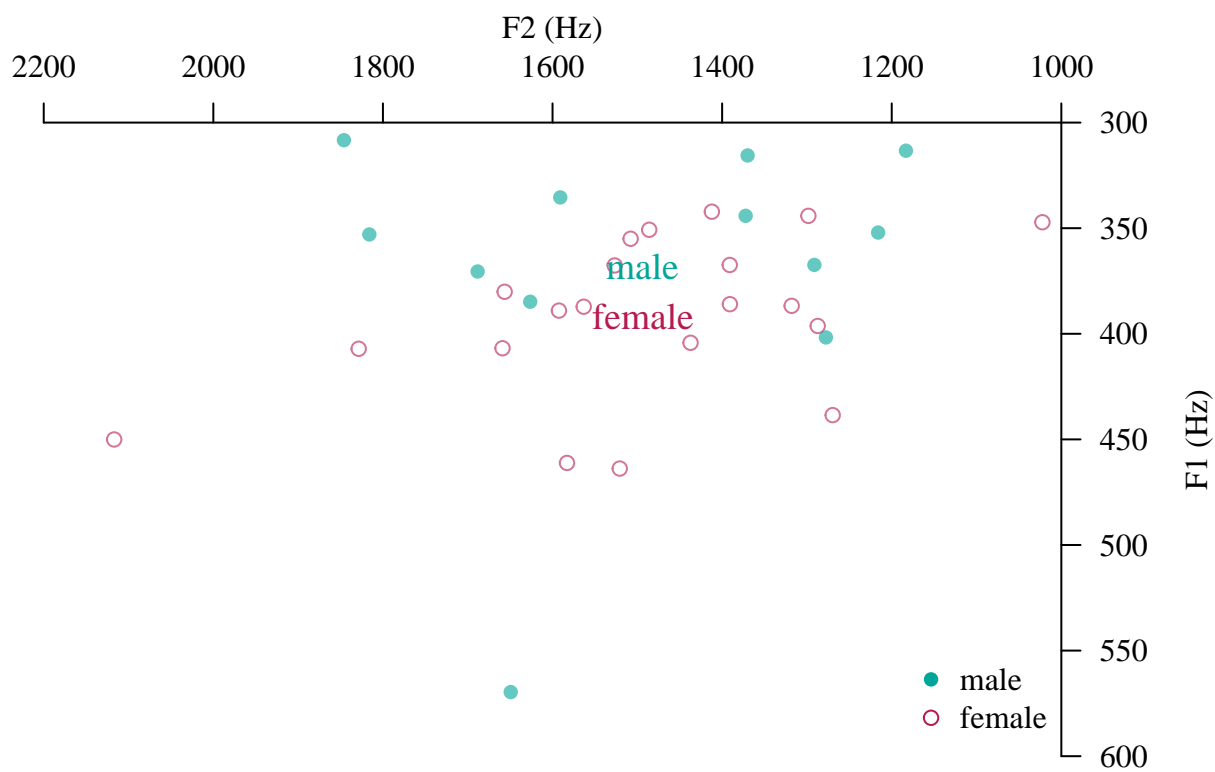
Plot of UW for LING20101 by height



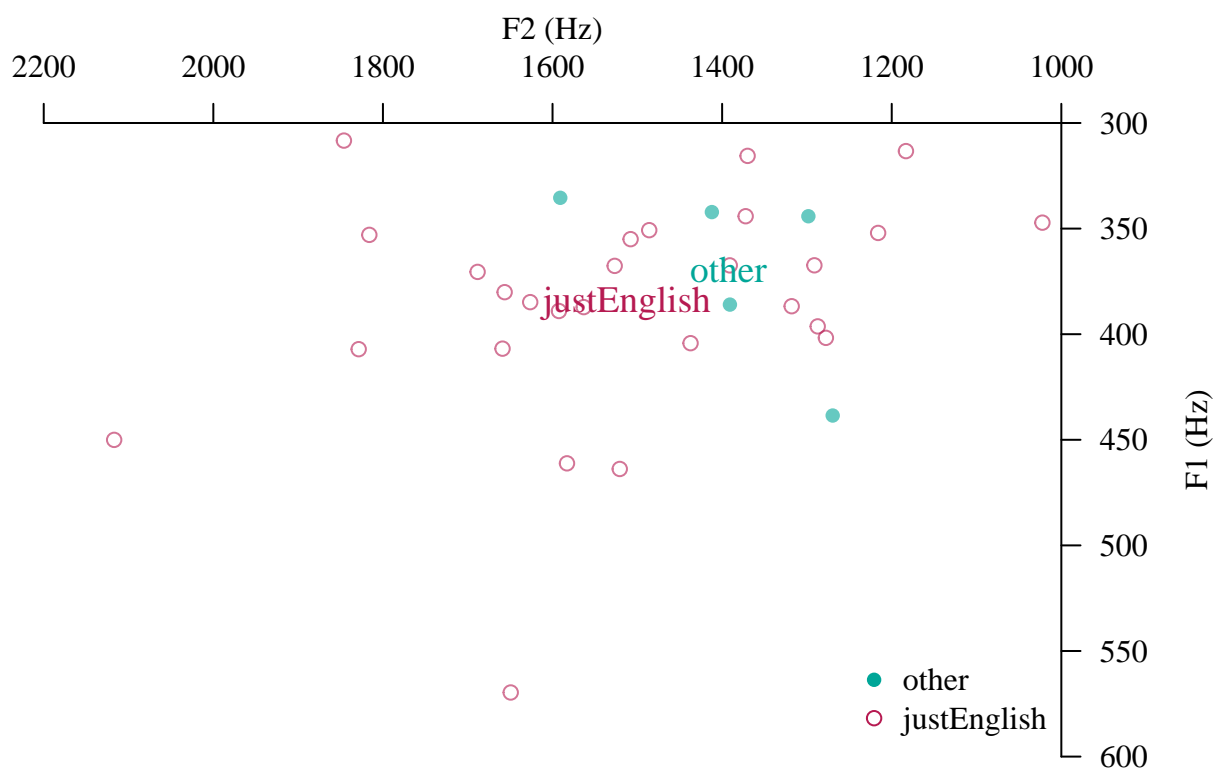
Plot of UW for LING20101 by year



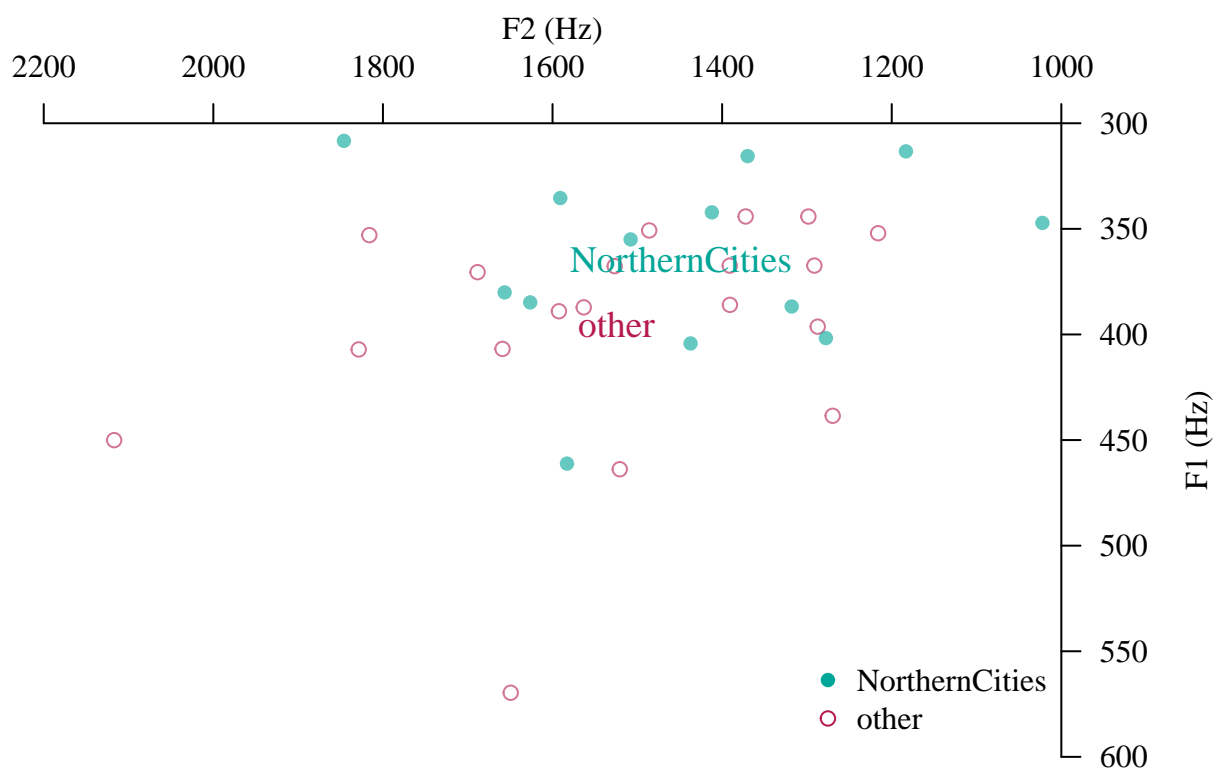
Plot of UW for LING20101 by sex



Plot of UW for LING20101 by additional native language

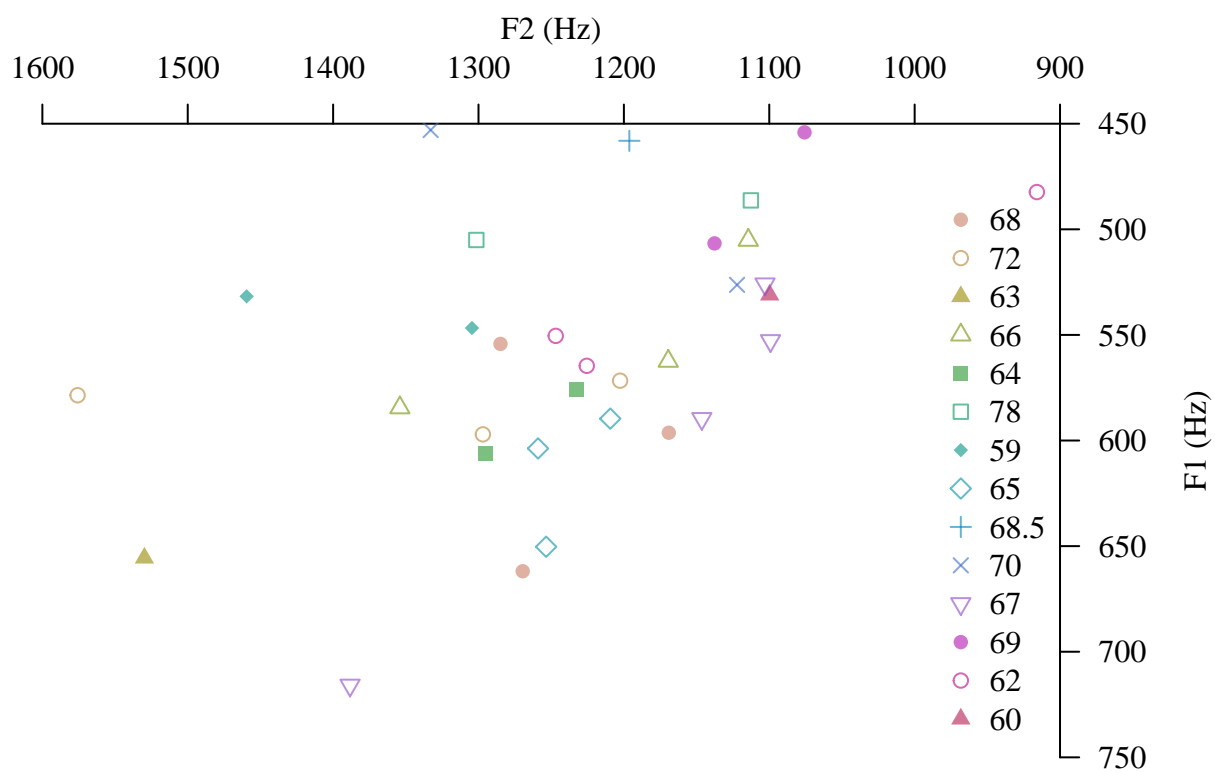


Plot of UW for LING20101 by home

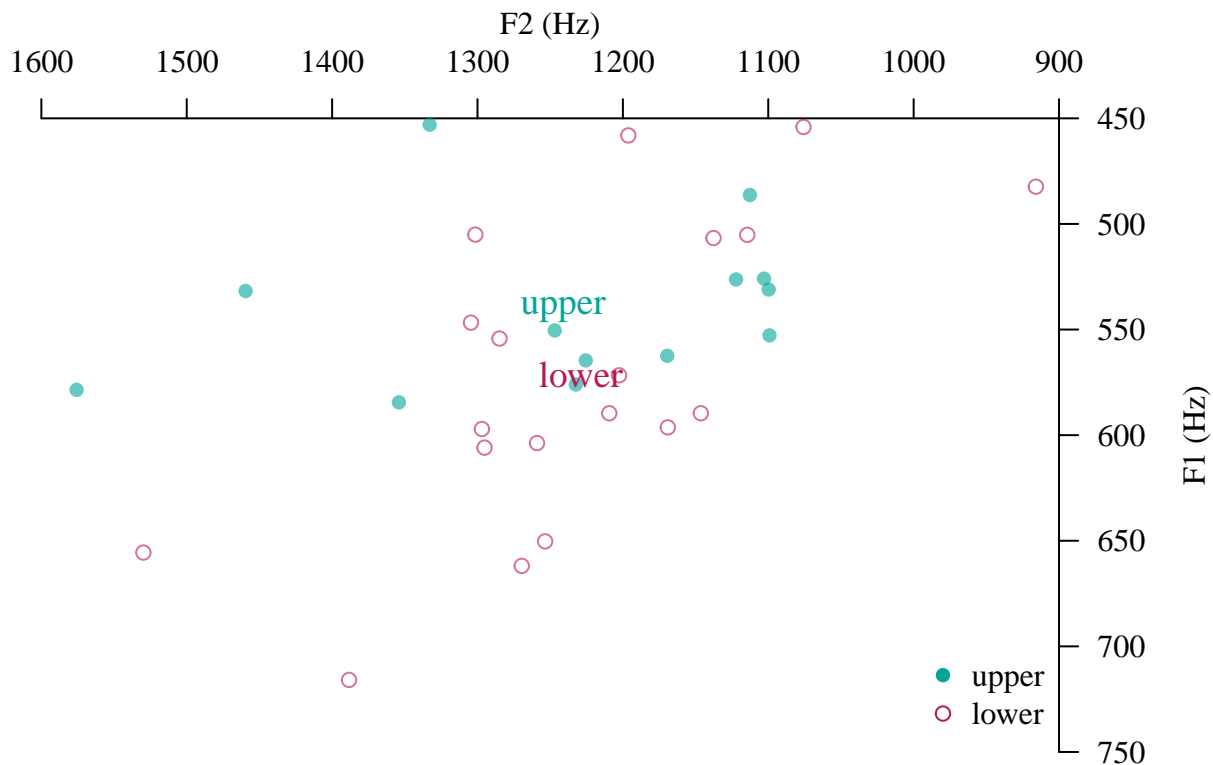


## [1] "PLOTS FOR VOWEL UH"

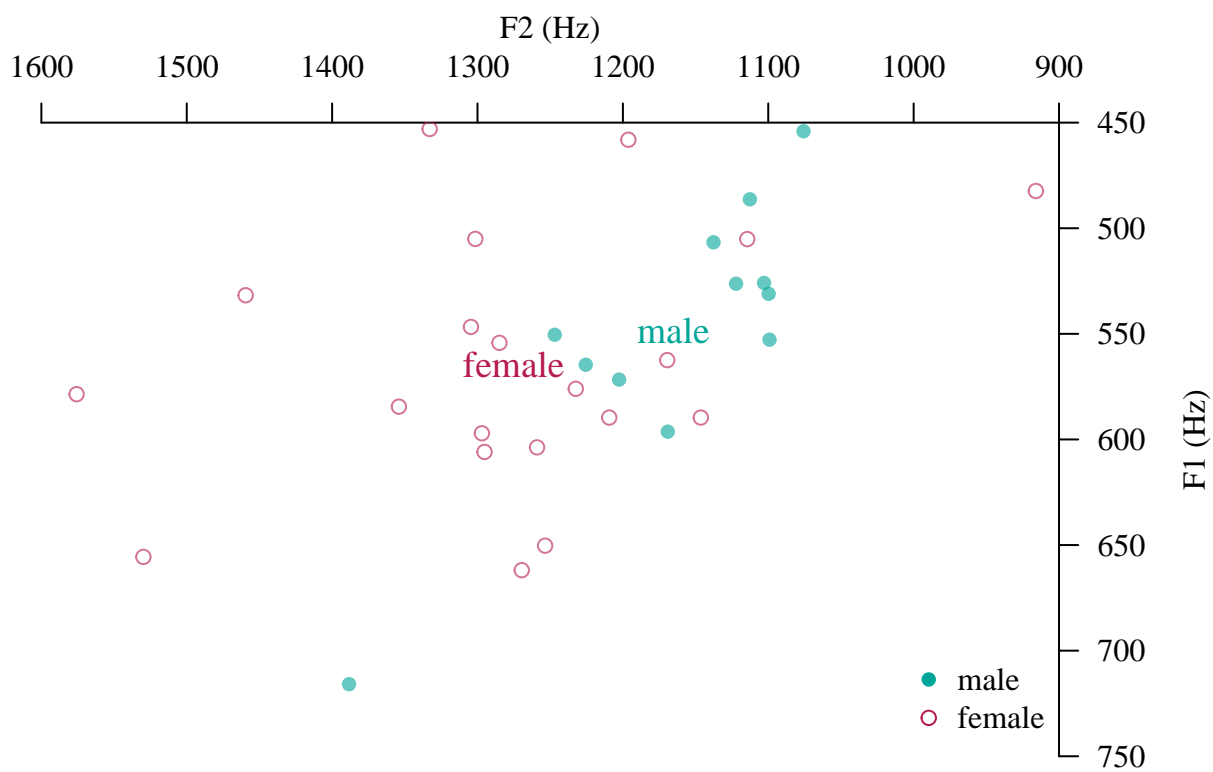
Plot of UH for LING20101 by height



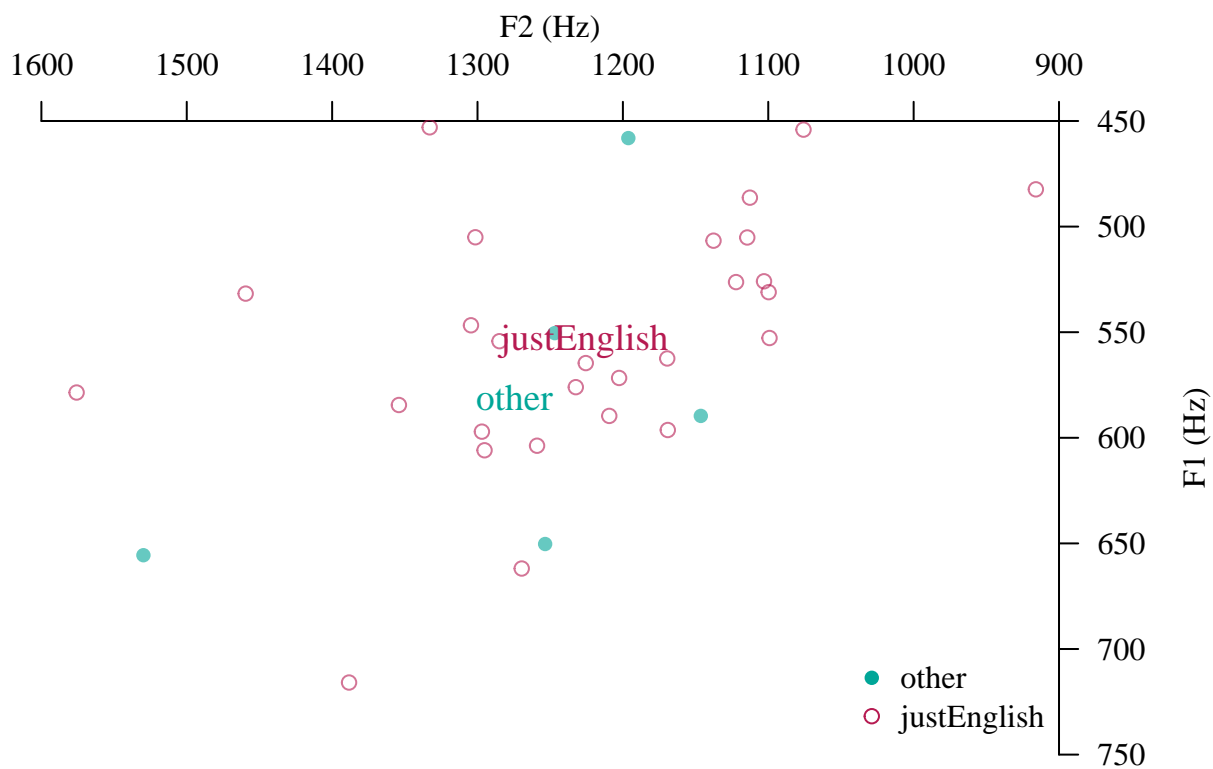
Plot of UH for LING20101 by year



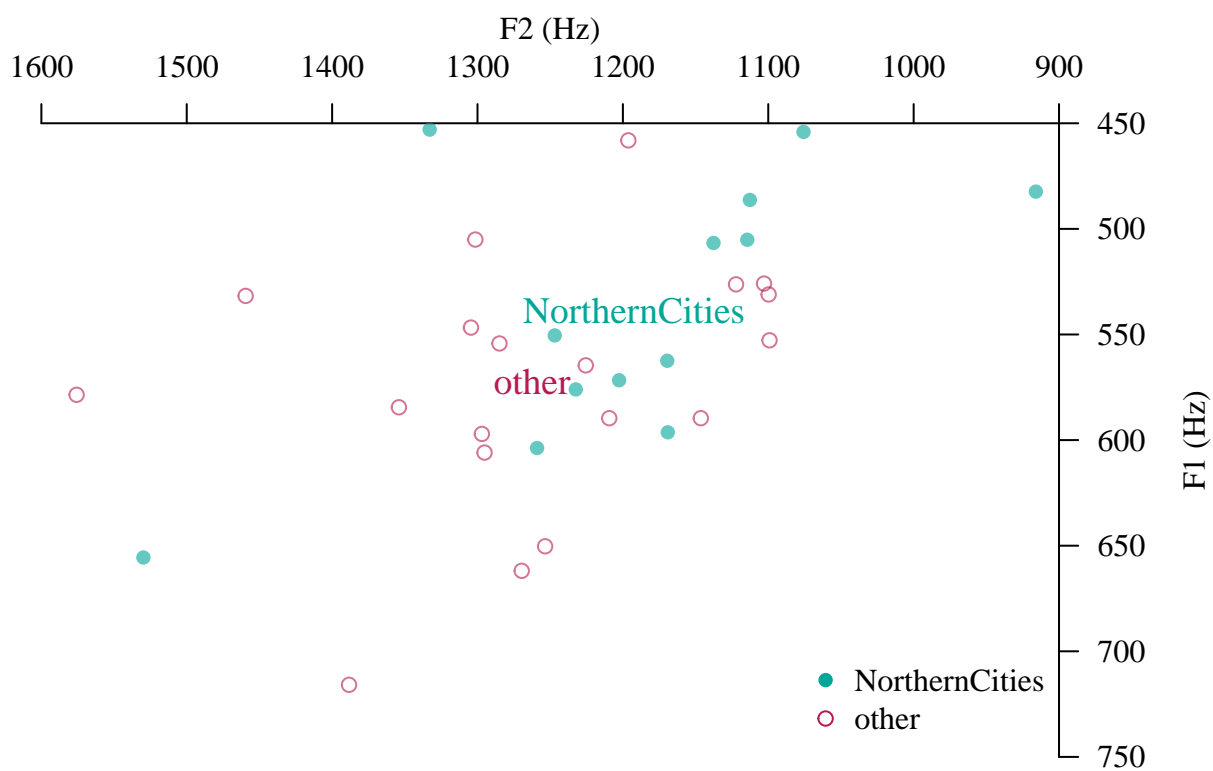
Plot of UH for LING20101 by sex



Plot of UH for LING20101 by additional native language

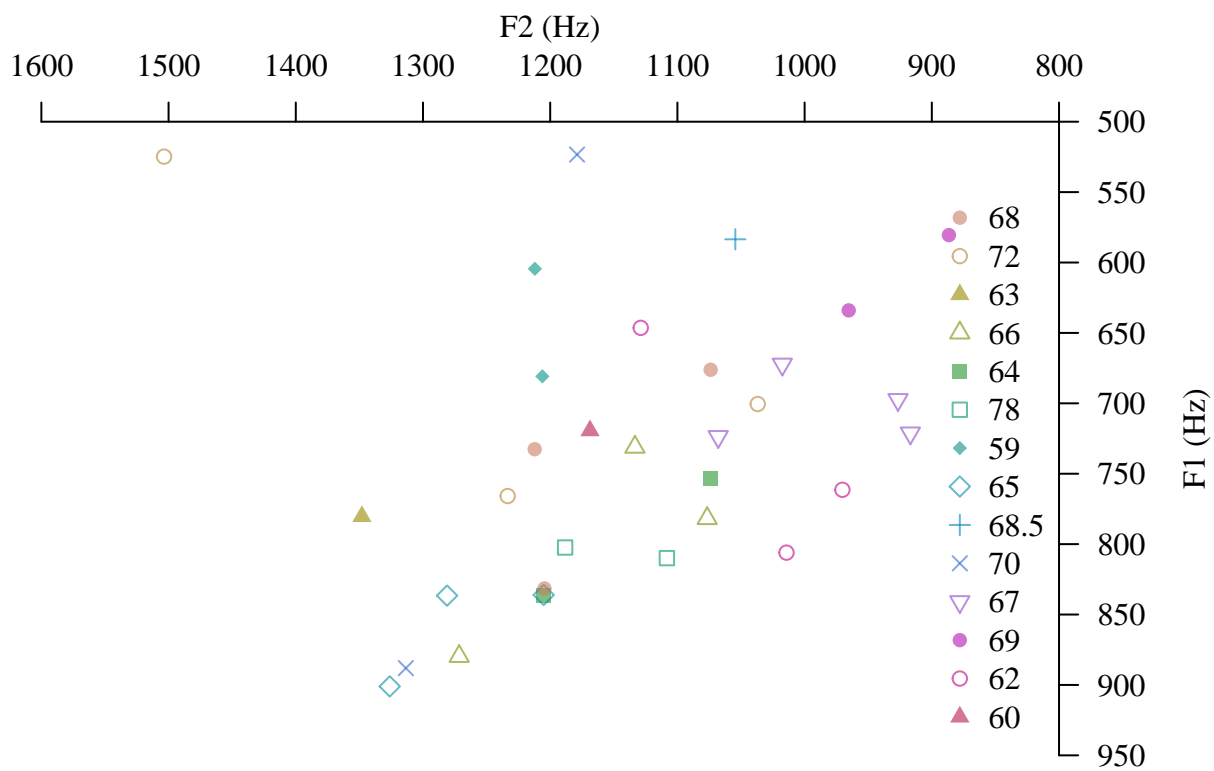


Plot of UH for LING20101 by home

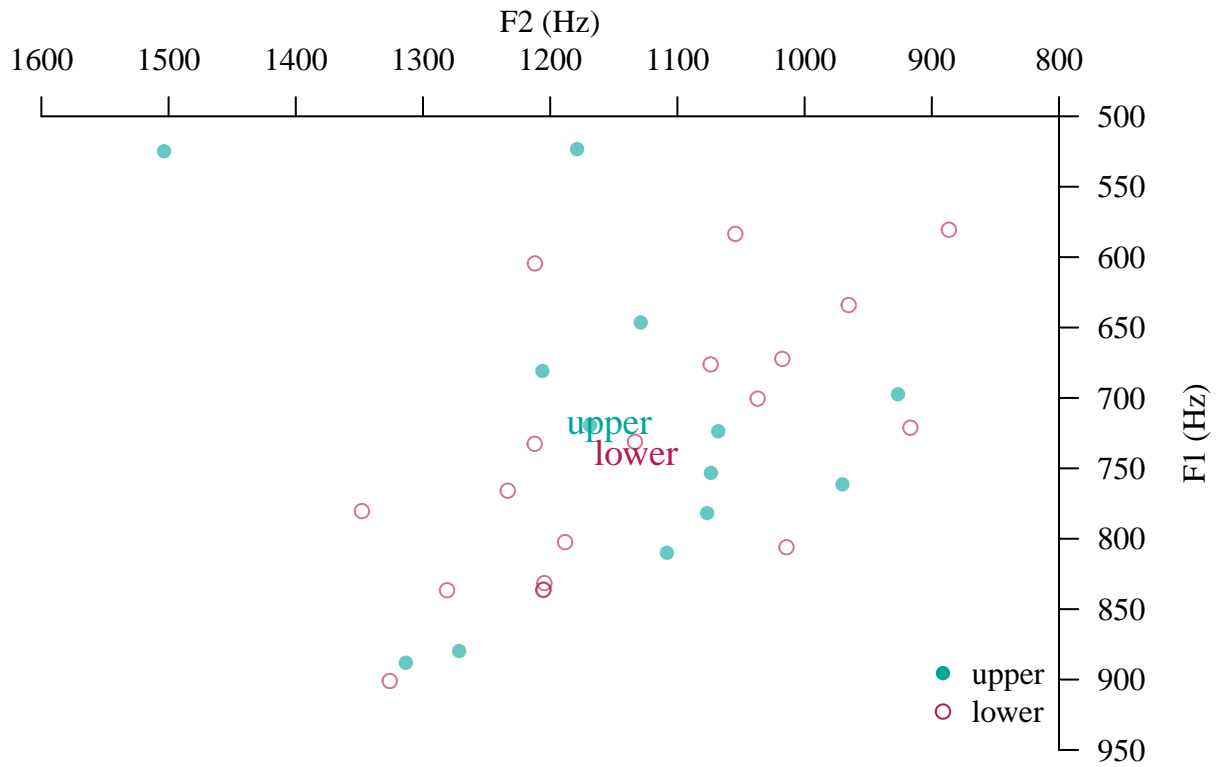


## [1] "PLOTS FOR VOWEL AO"

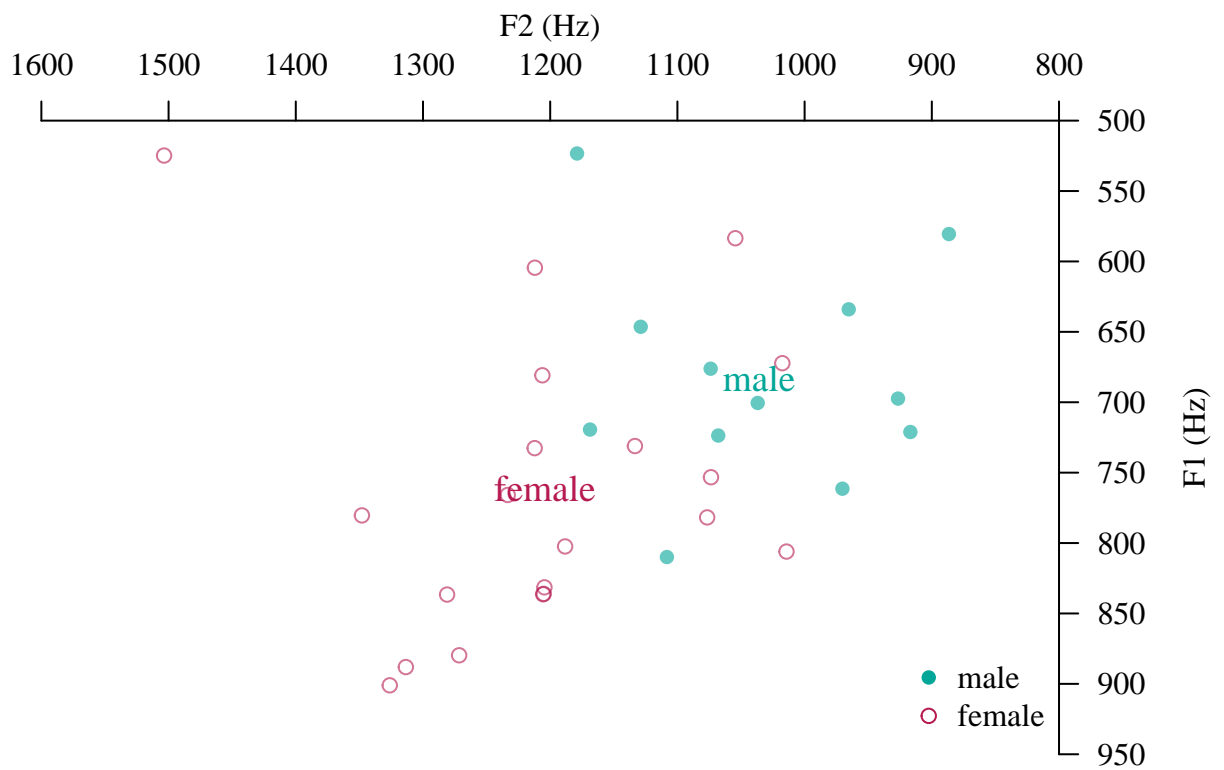
Plot of AO for LING20101 by height



Plot of AO for LING20101 by year

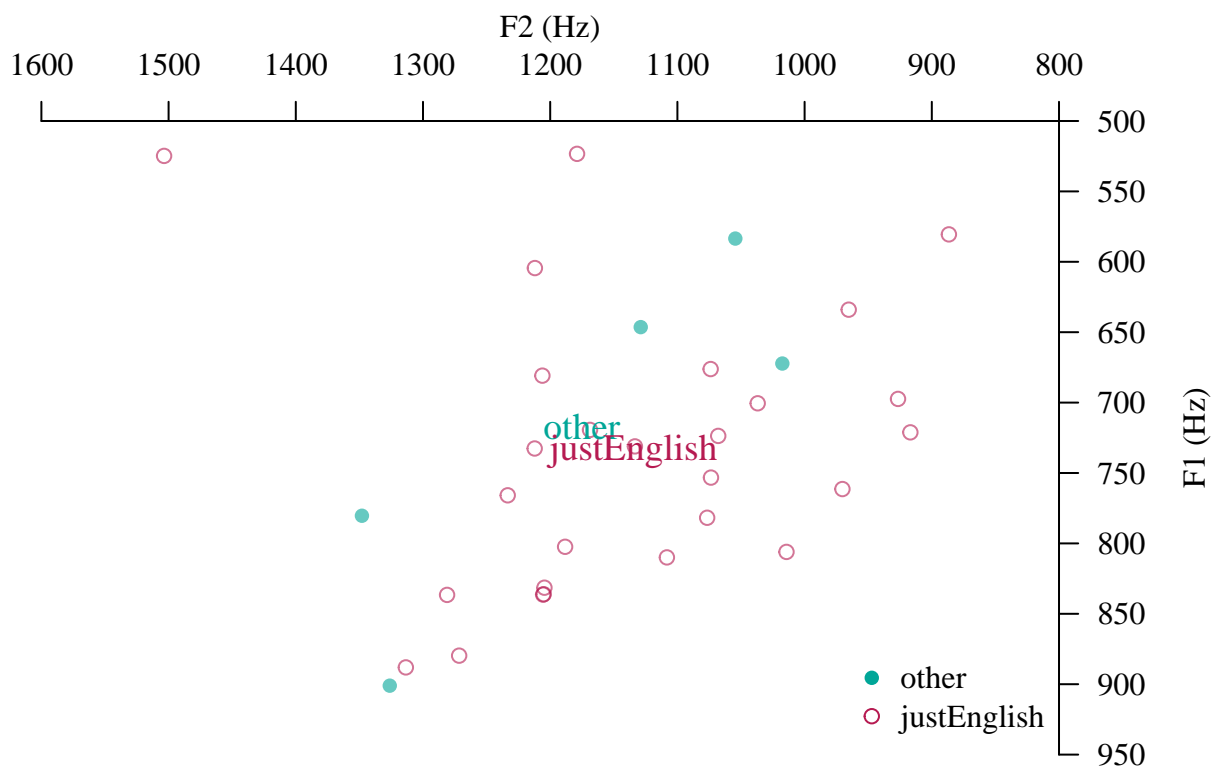


Plot of AO for LING20101 by sex

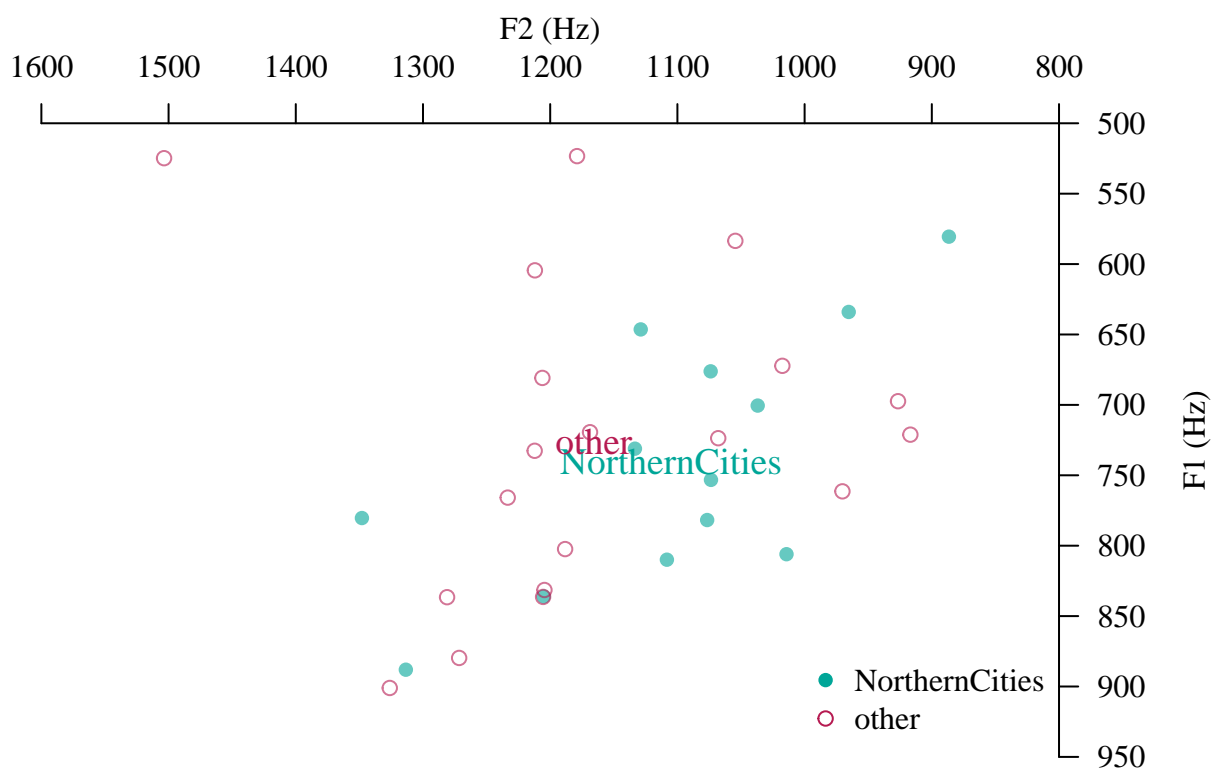




Plot of AO for LING20101 by additional native language

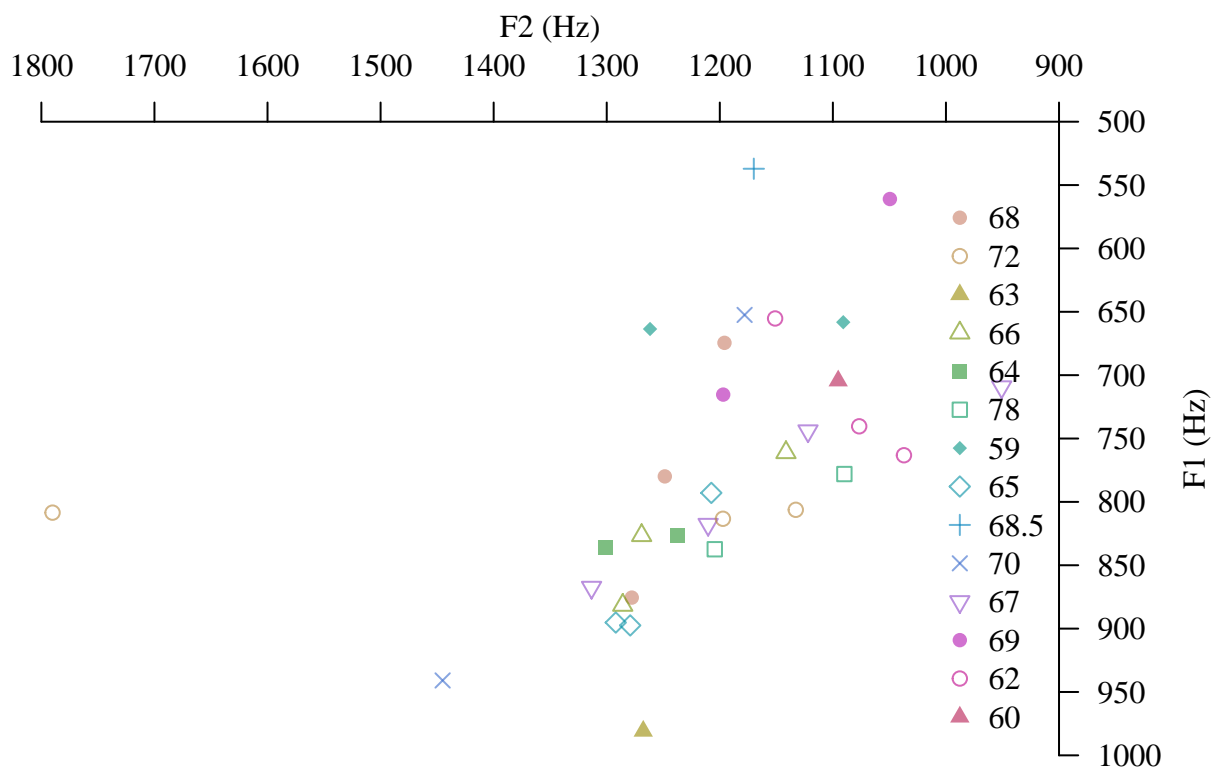


Plot of AO for LING20101 by home

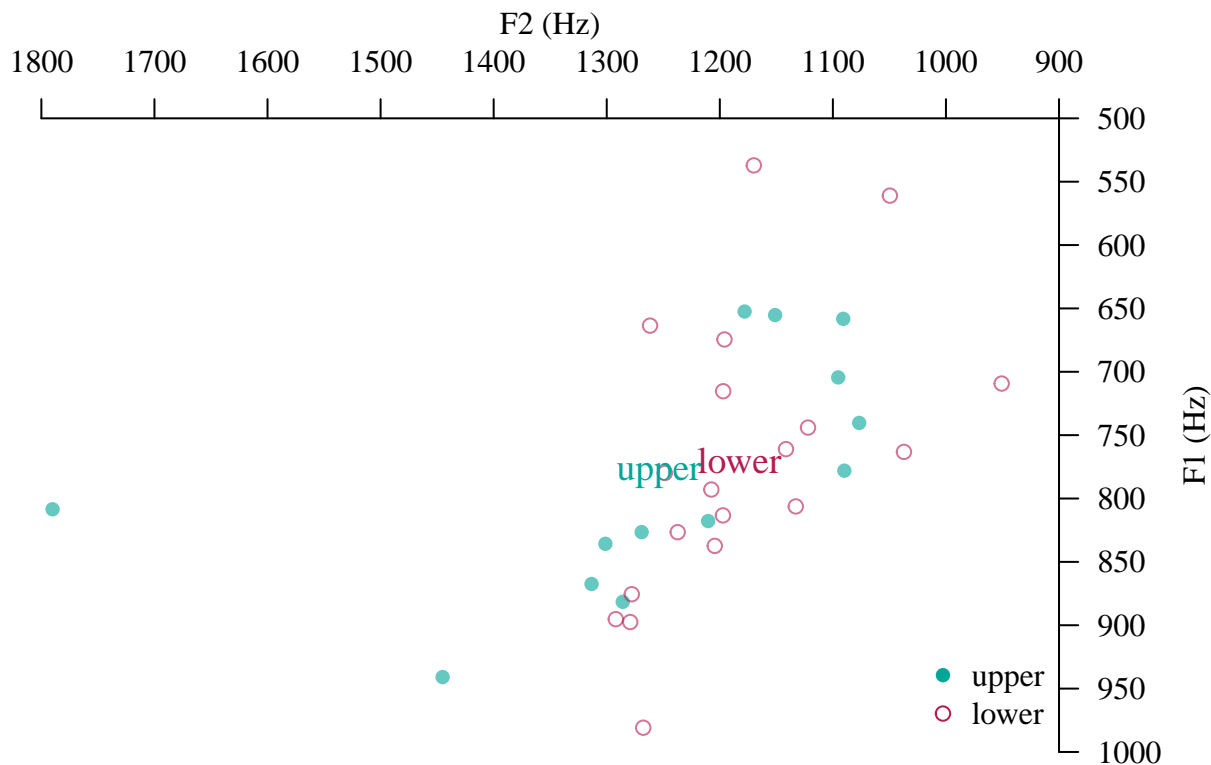


```
## [1] "PLOTS FOR VOWEL AA"
```

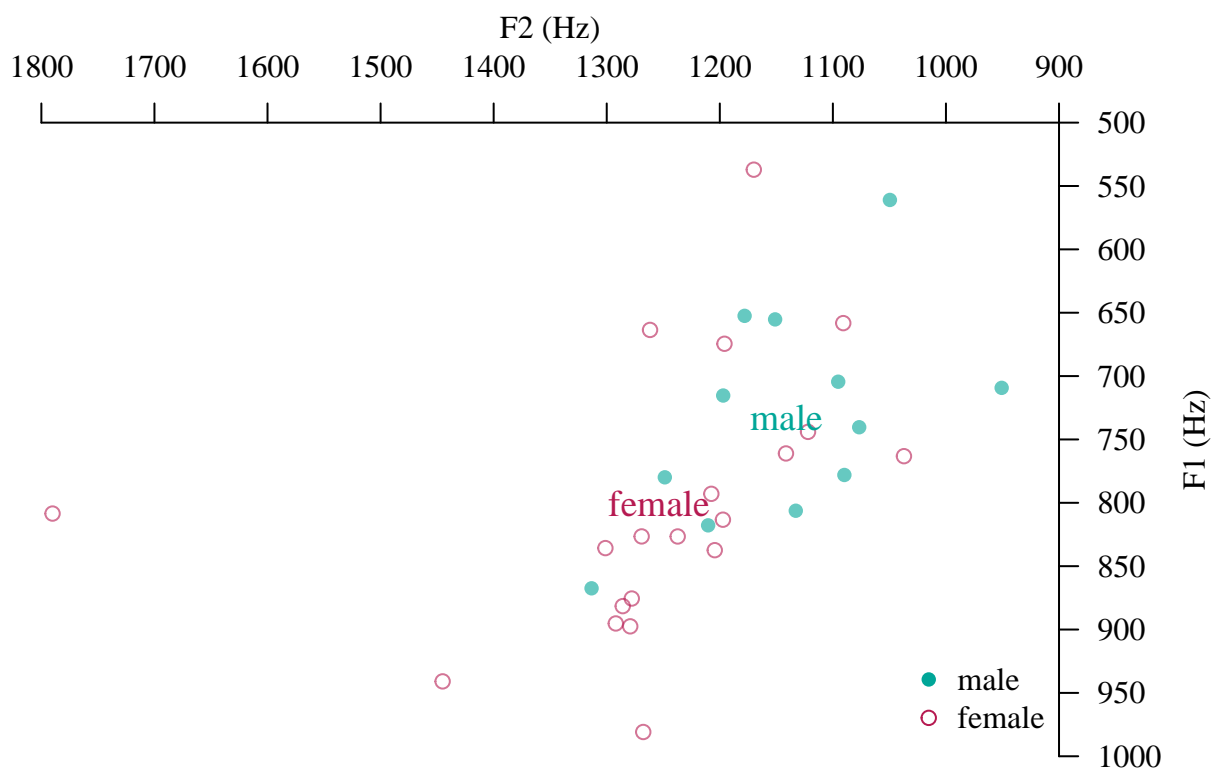
Plot of AA for LING20101 by height



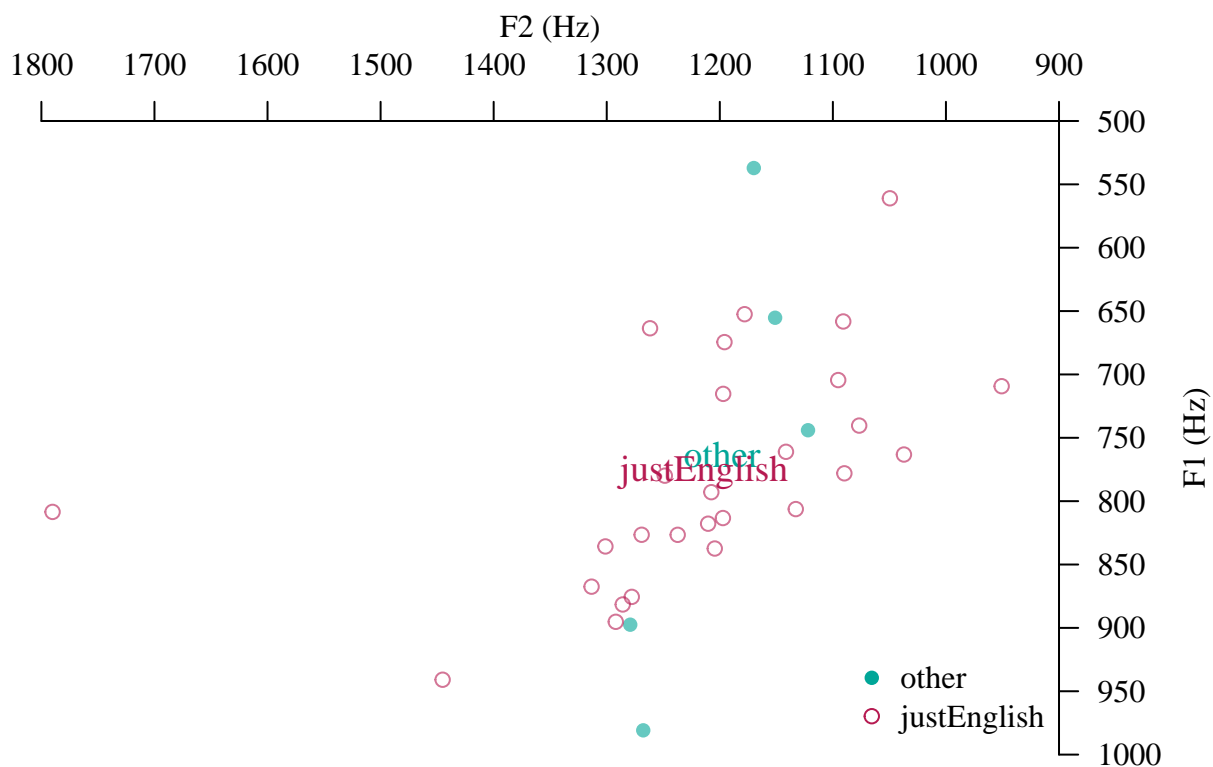
Plot of AA for LING20101 by year



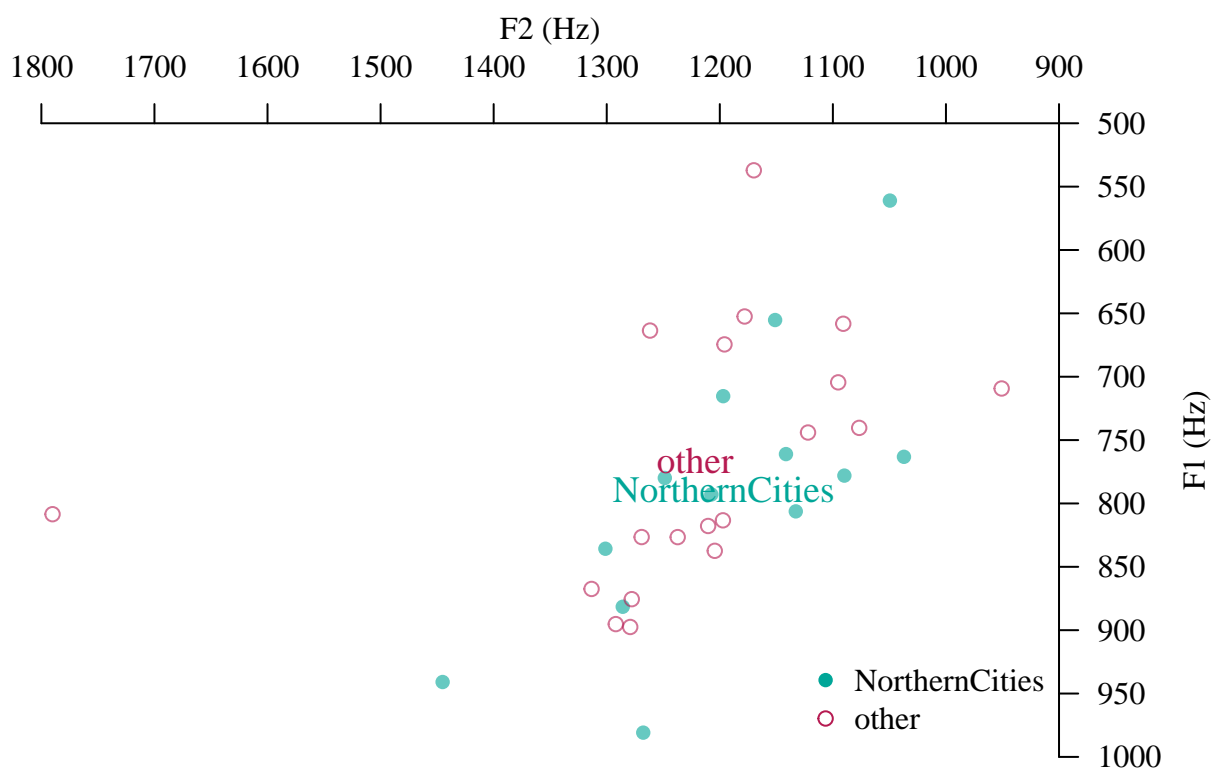
Plot of AA for LING20101 by sex



Plot of AA for LING20101 by additional native language



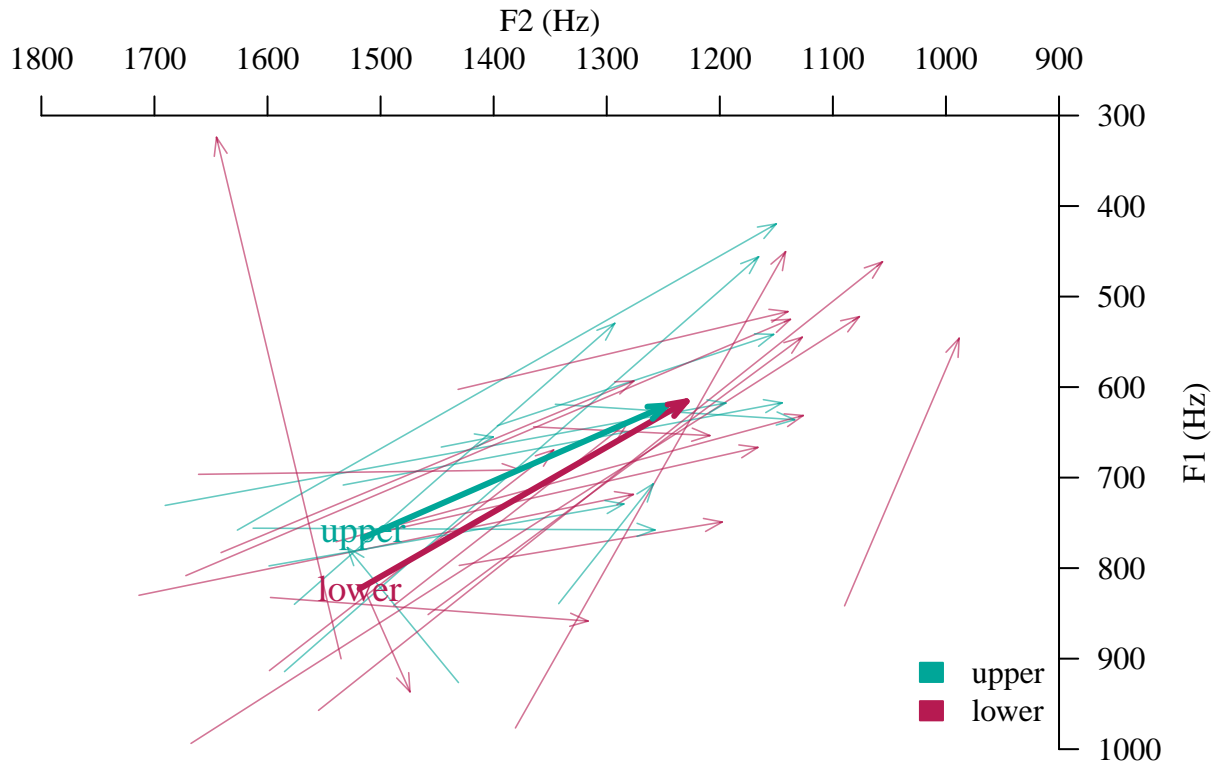
Plot of AA for LING20101 by home



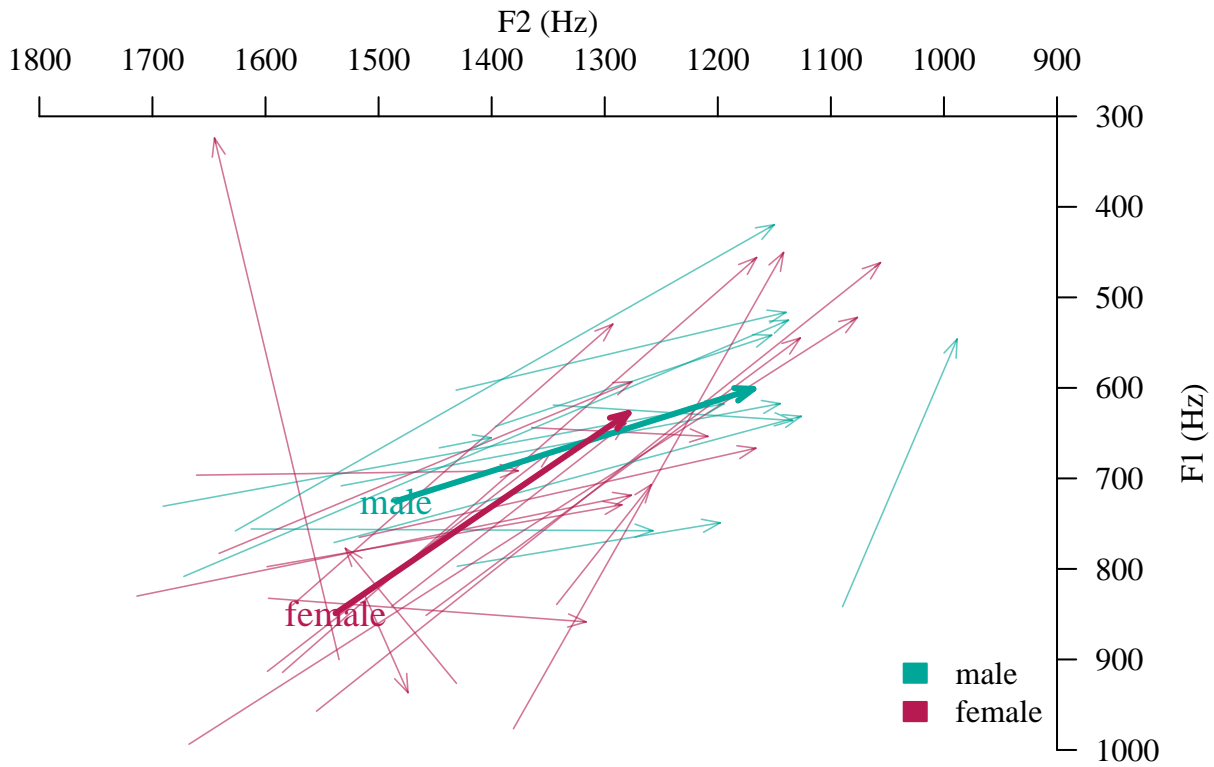
```
## [1] "PLOTS FOR DIPHTHONG DATA"
```

```
## [1] "PLOTS FOR VOWEL AW"
```

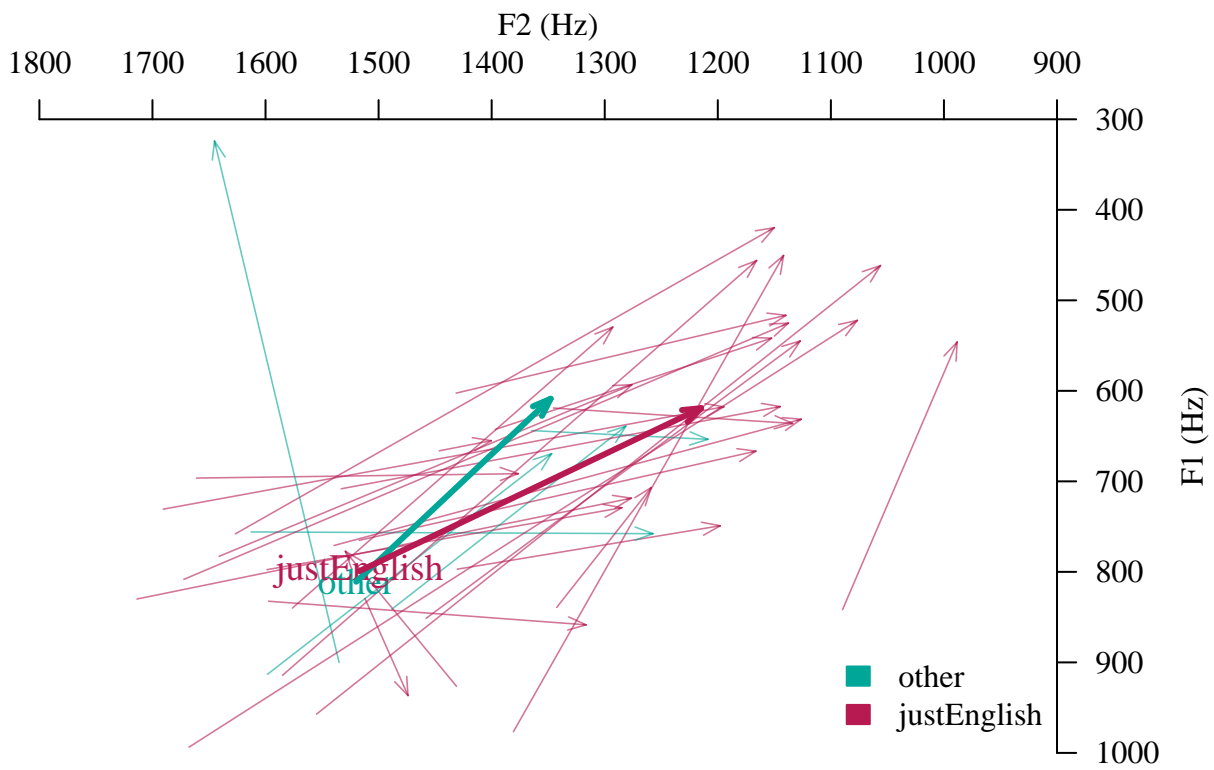
Plot of AW for LING20101 by year



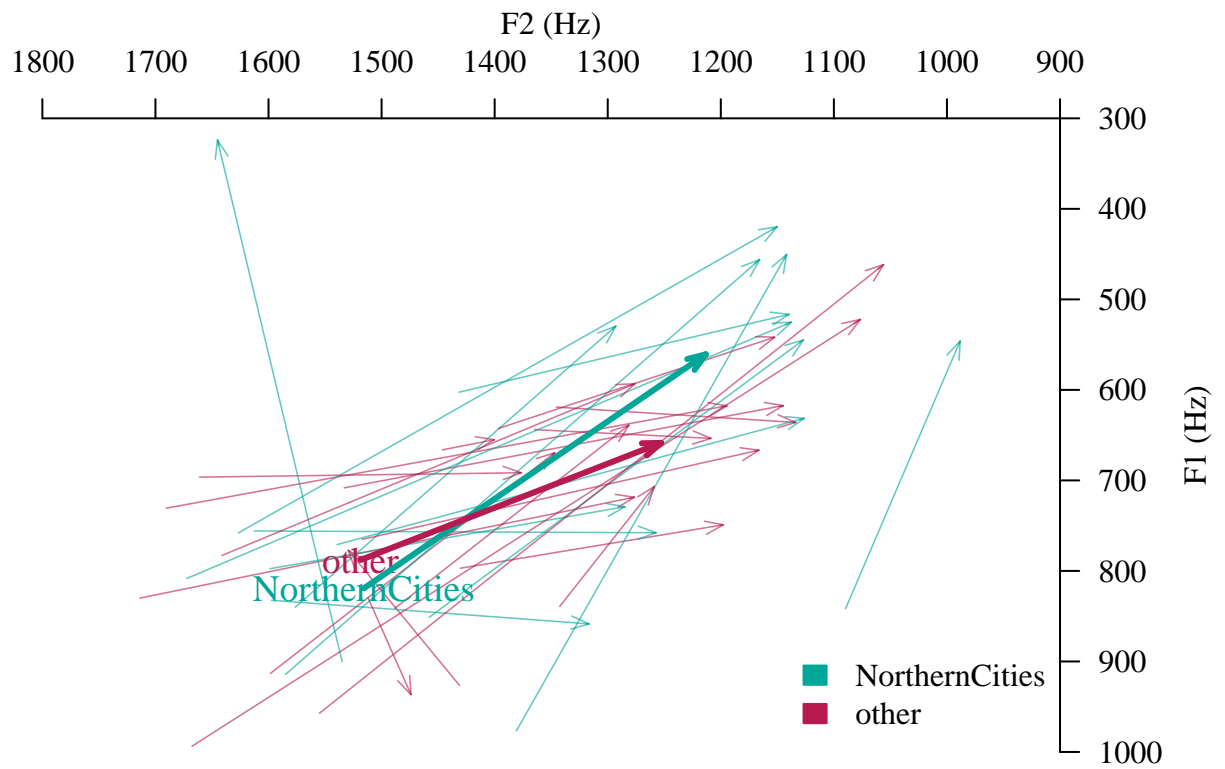
Plot of AW for LING20101 by sex



Plot of AW for LING20101 by additional native language

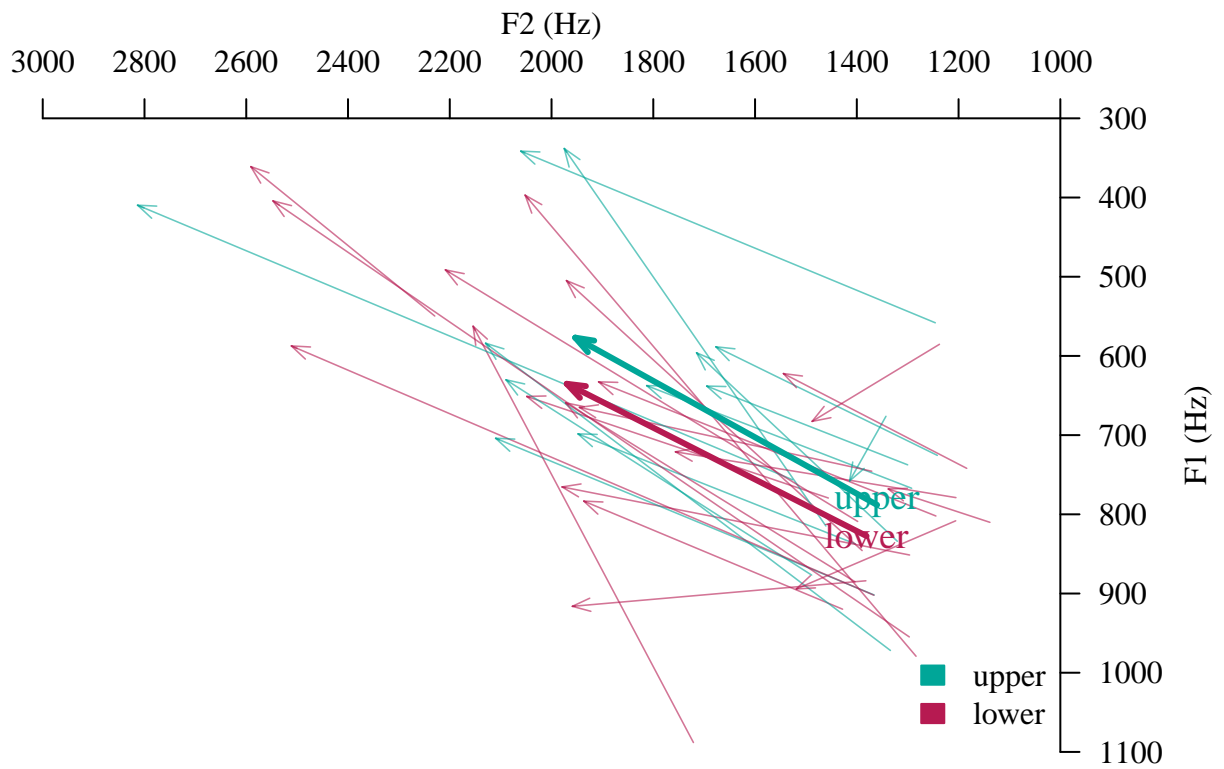


Plot of AW for LING20101 by home

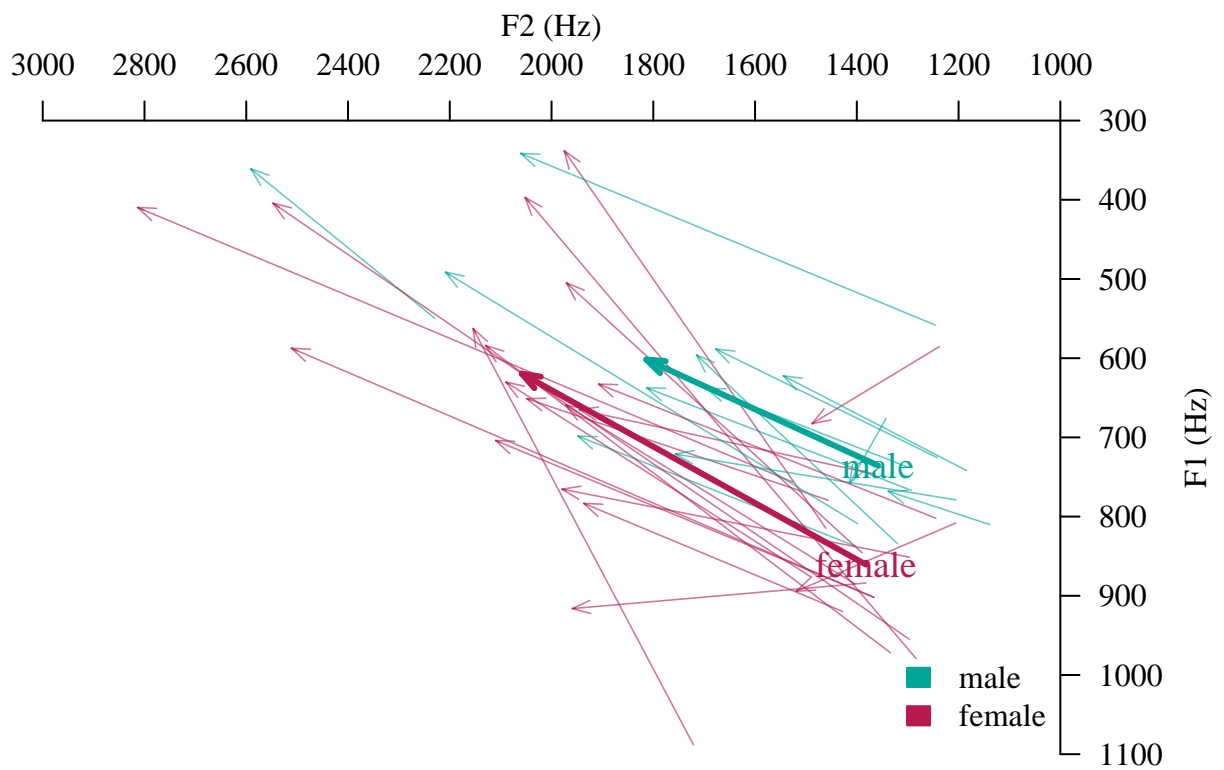


```
## [1] "PLOTS FOR VOWEL AY"
```

Plot of AY for LING20101 by year

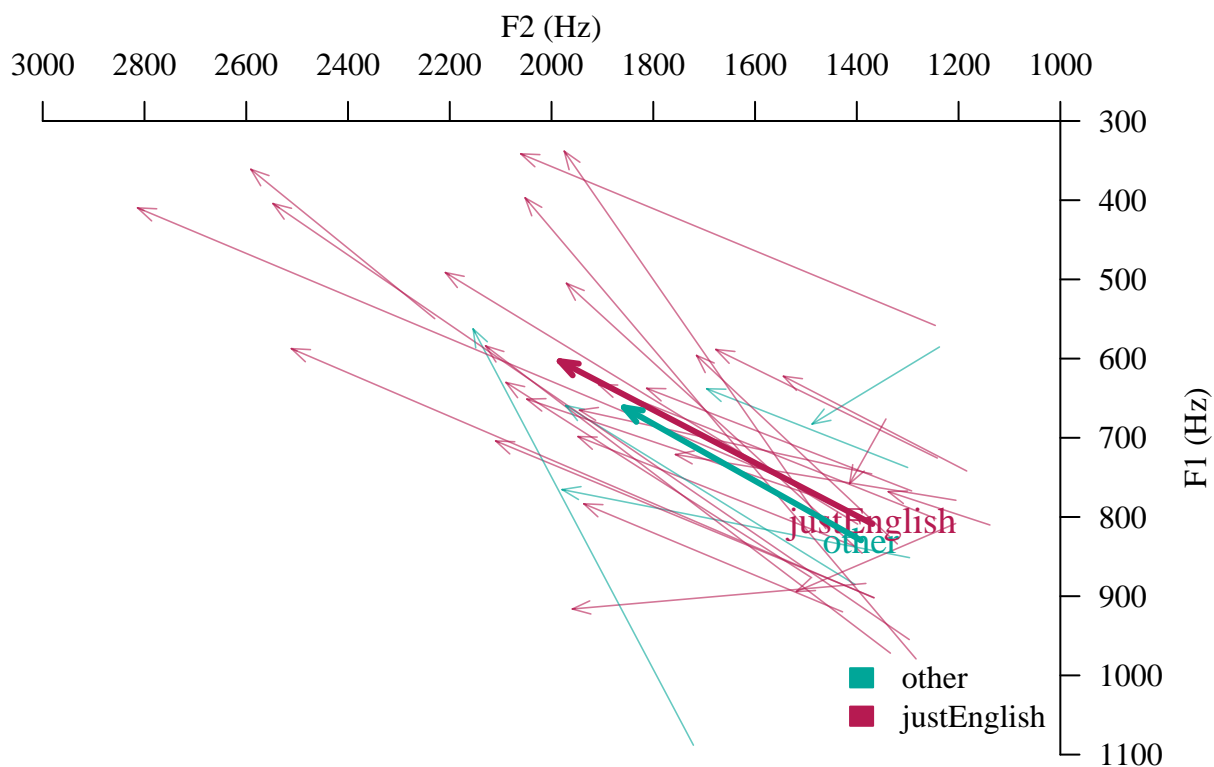


Plot of AY for LING20101 by sex

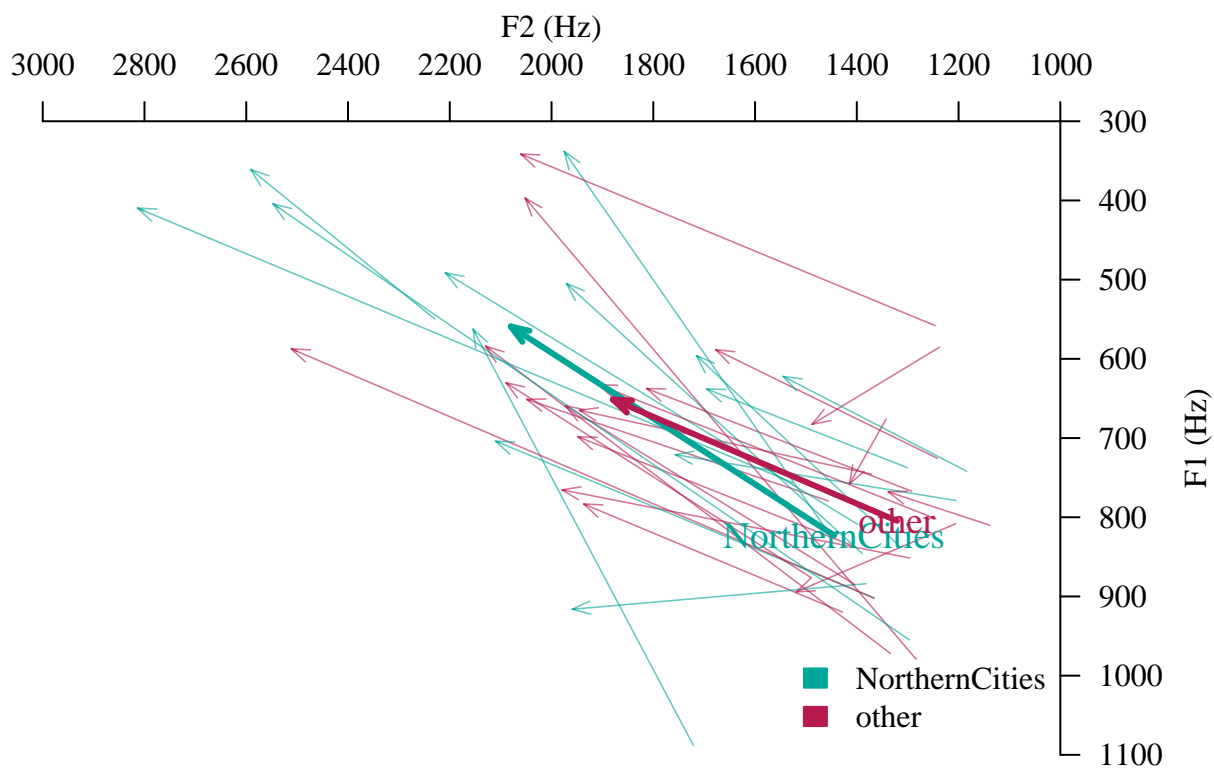




Plot of AY for LING20101 by additonal native language

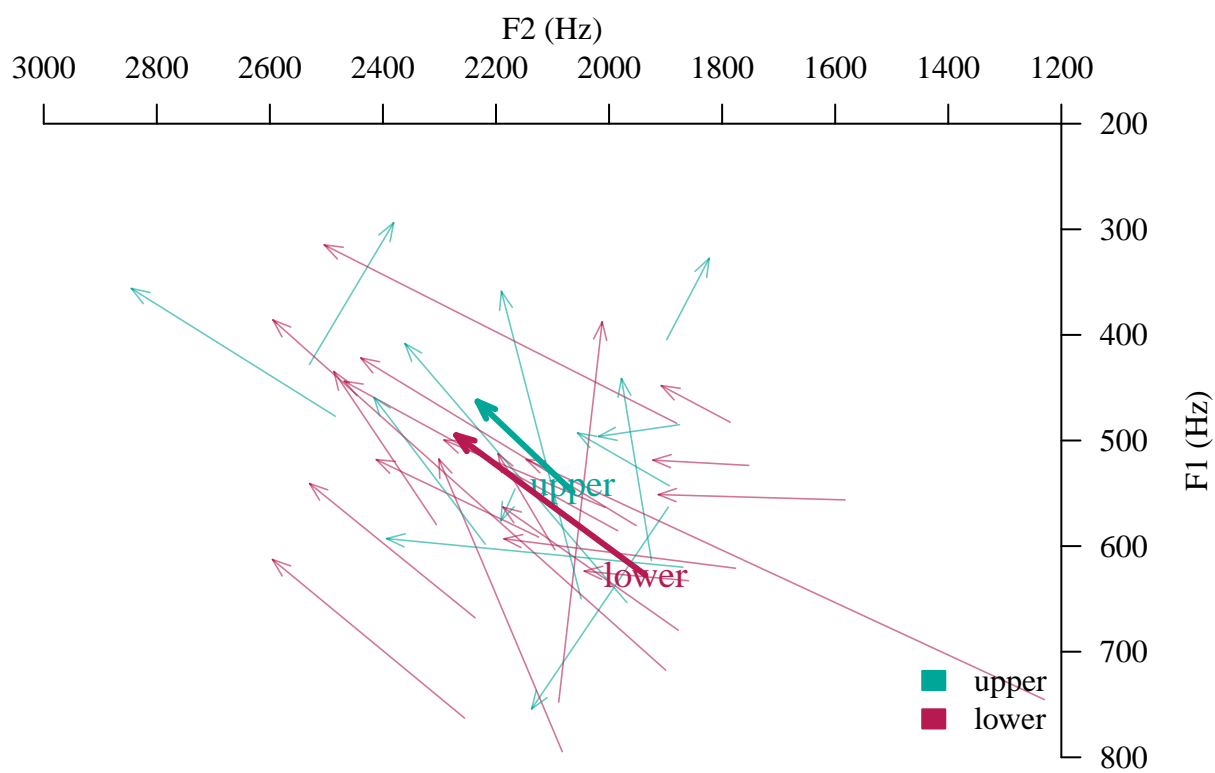


Plot of AY for LING20101 by home

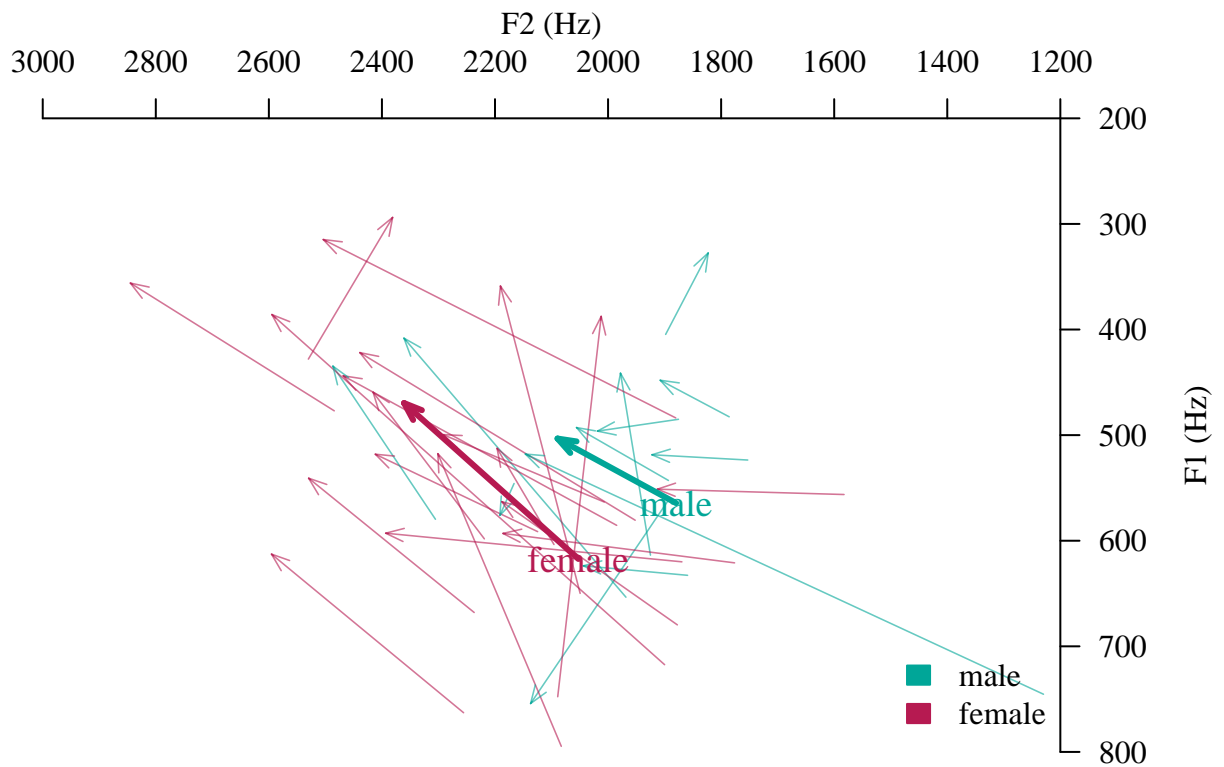


```
## [1] "PLOTS FOR VOWEL EY"
```

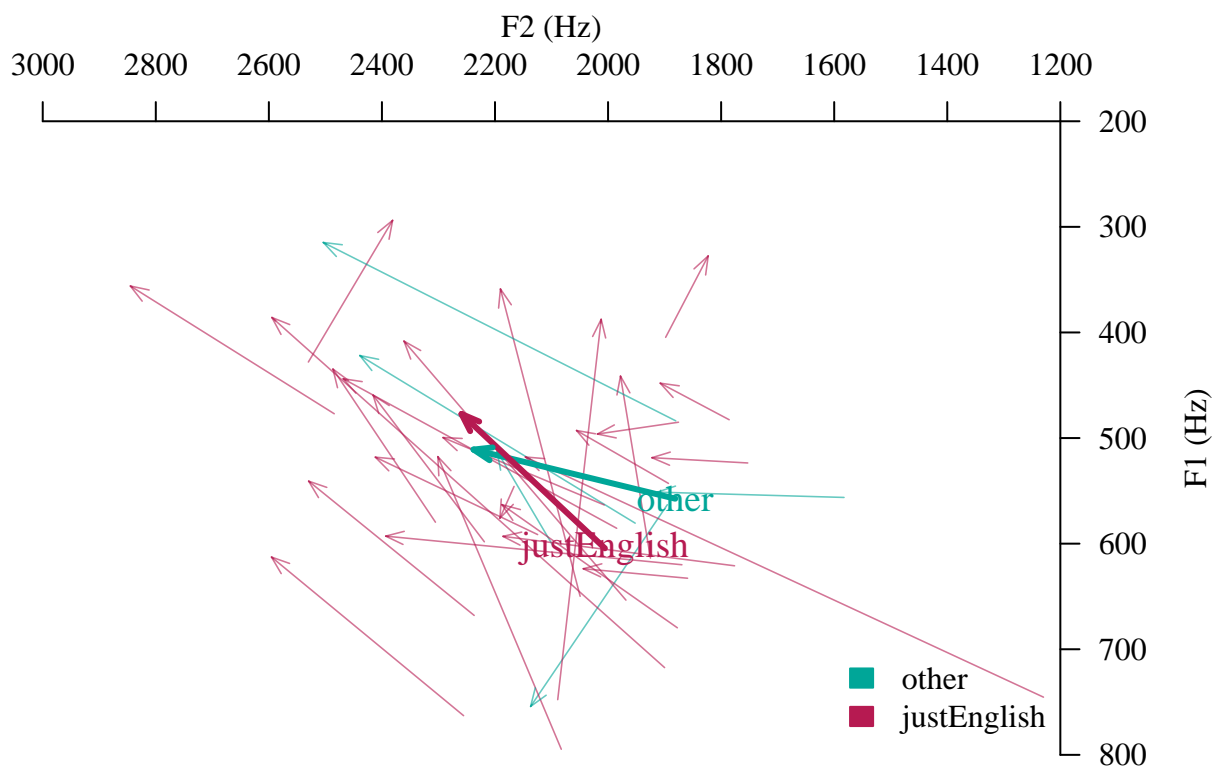
Plot of EY for LING20101 by year



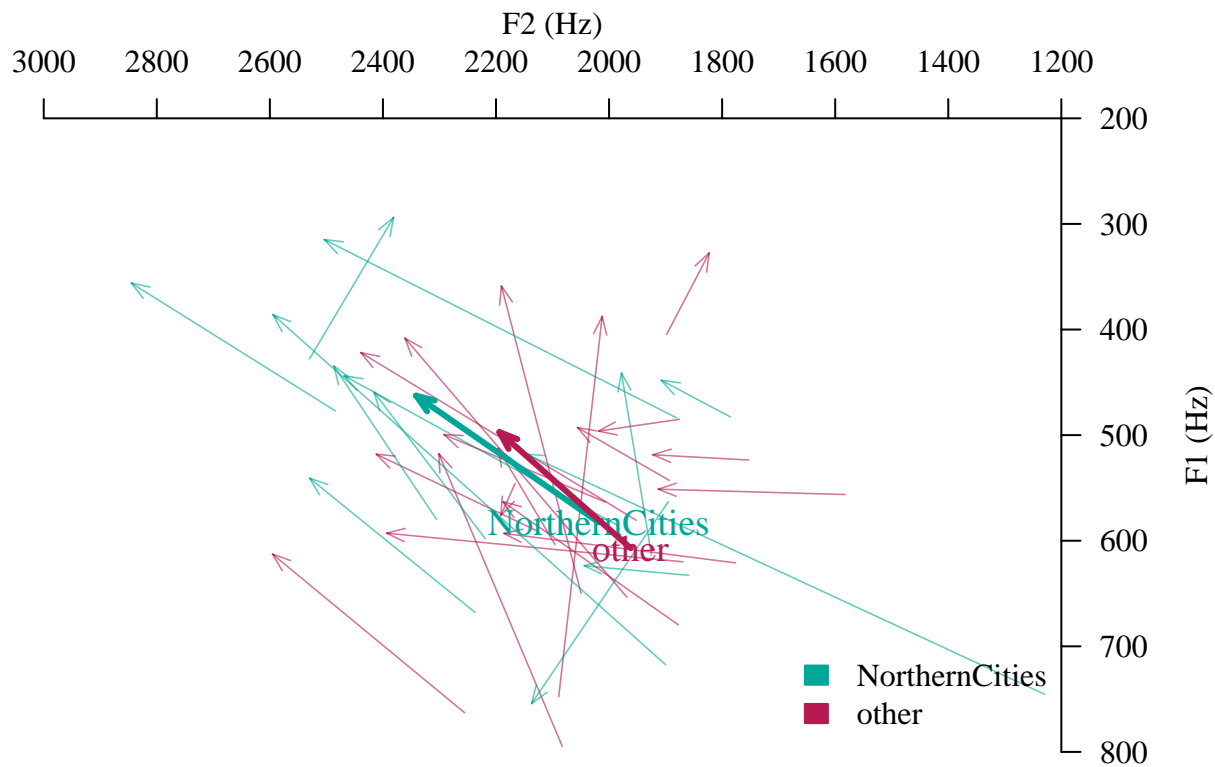
Plot of EY for LING20101 by sex



Plot of EY for LING20101 by additional native language

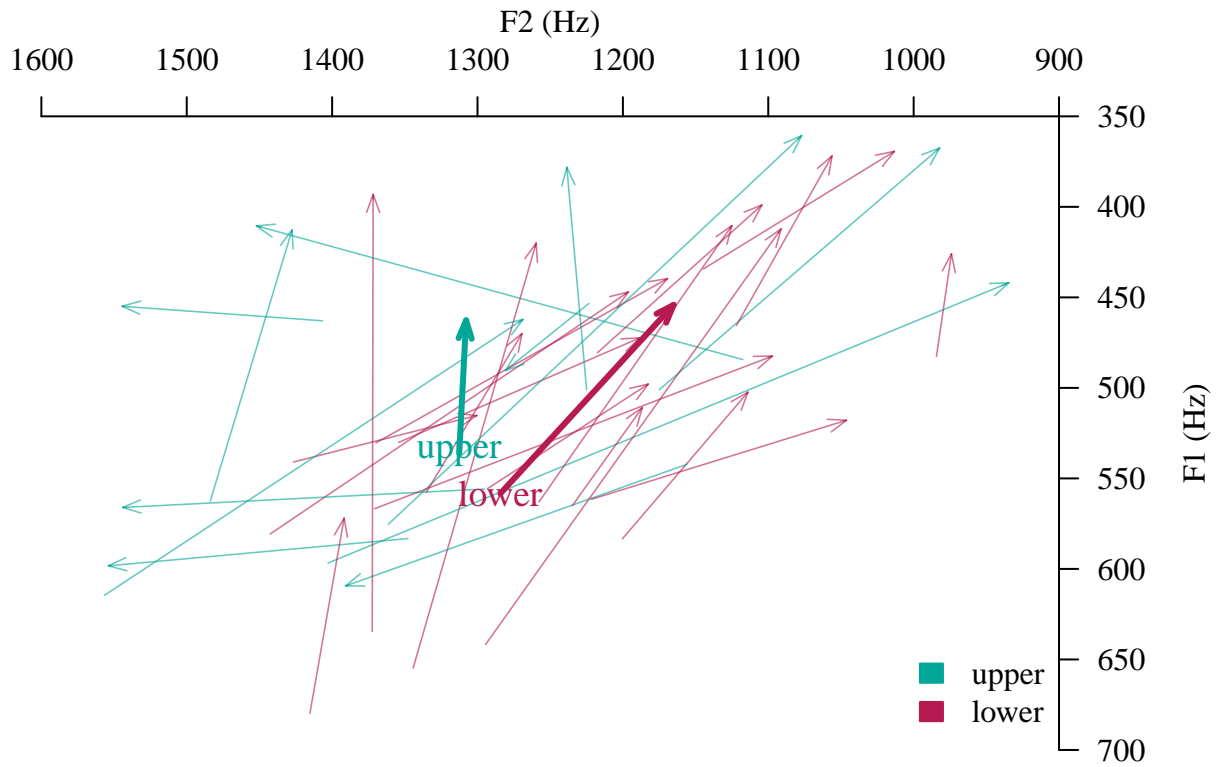


Plot of EY for LING20101 by home

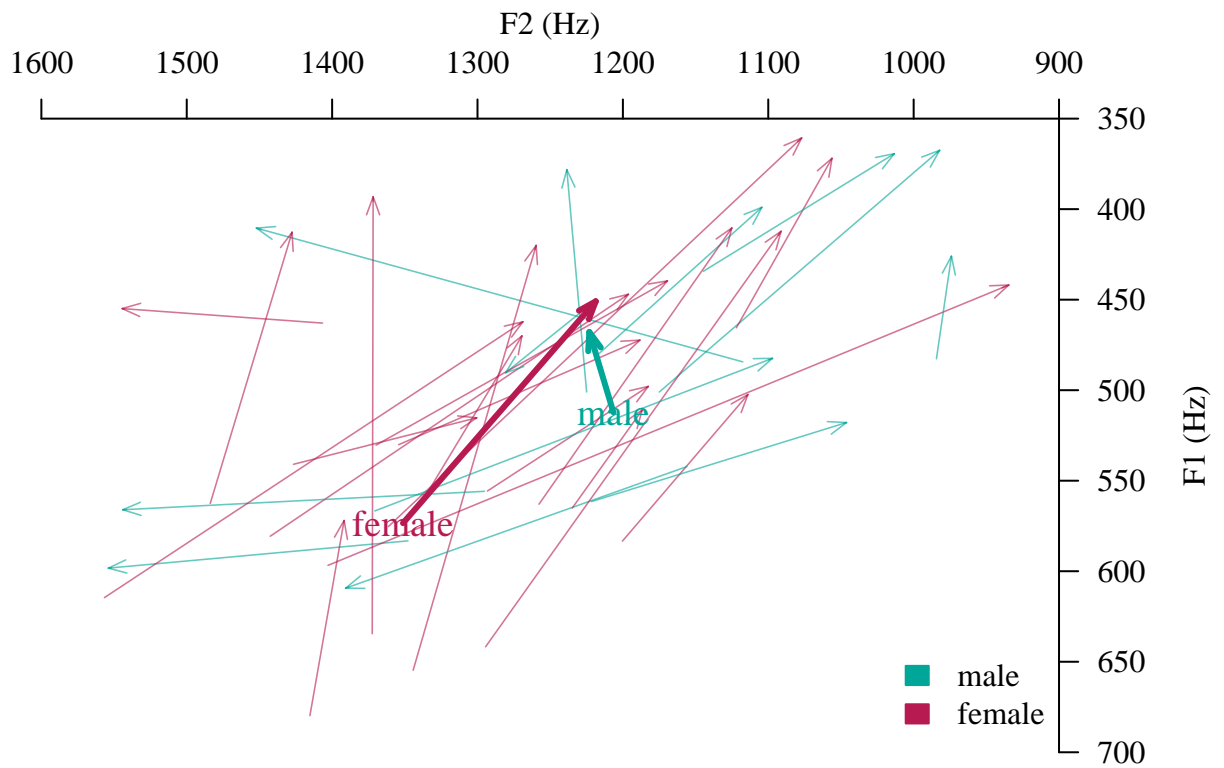


## [1] "PLOTS FOR VOWEL OW"

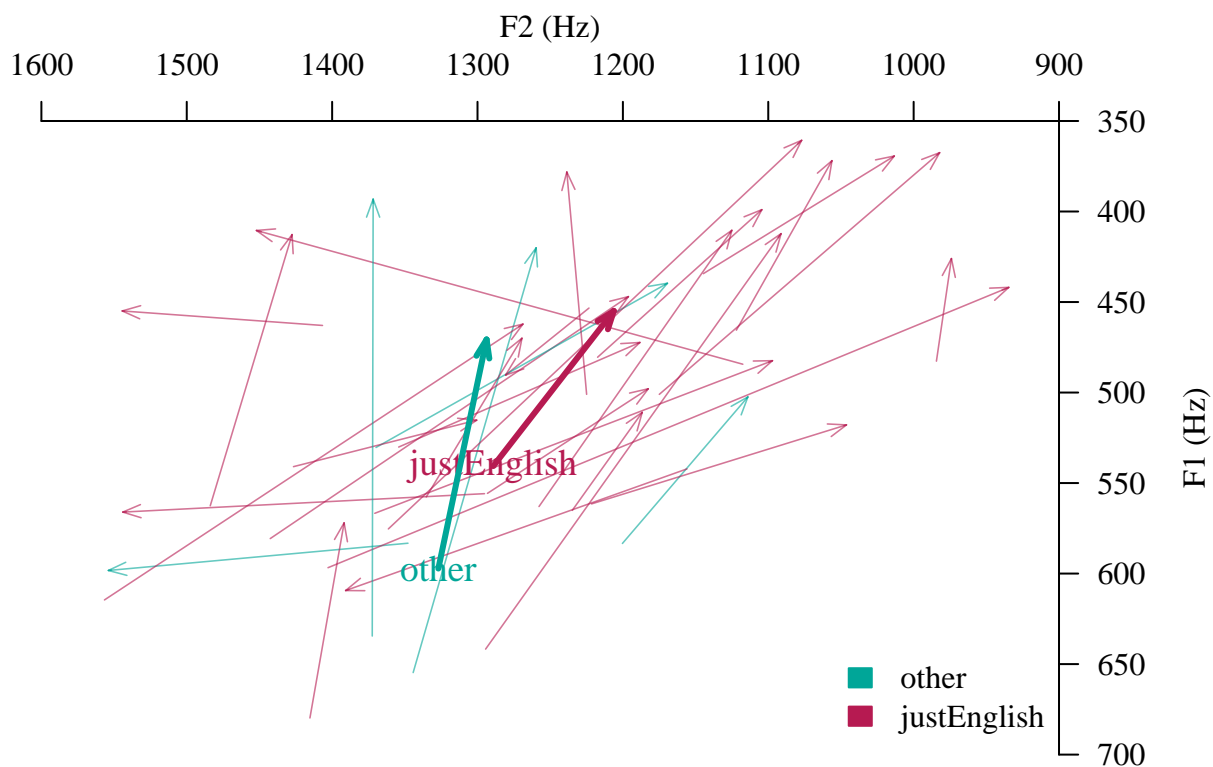
Plot of OW for LING20101 by year



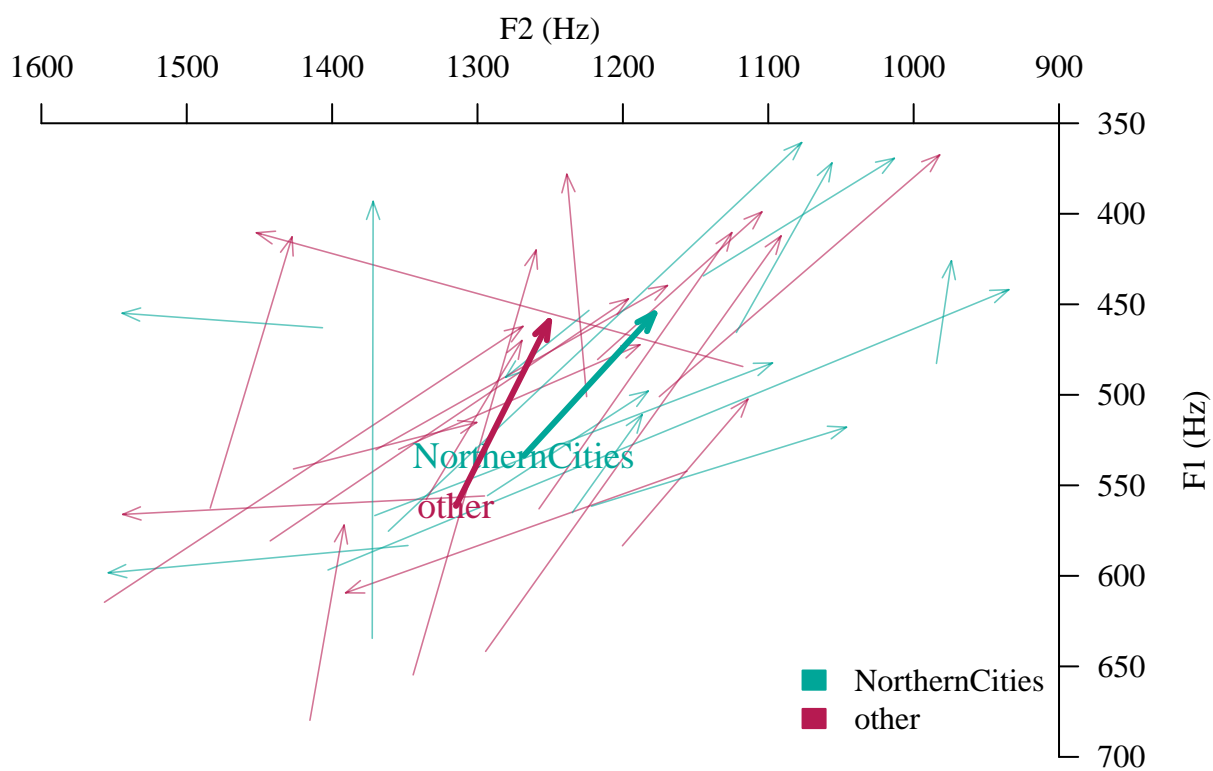
Plot of OW for LING20101 by sex



Plot of OW for LING20101 by additional native language

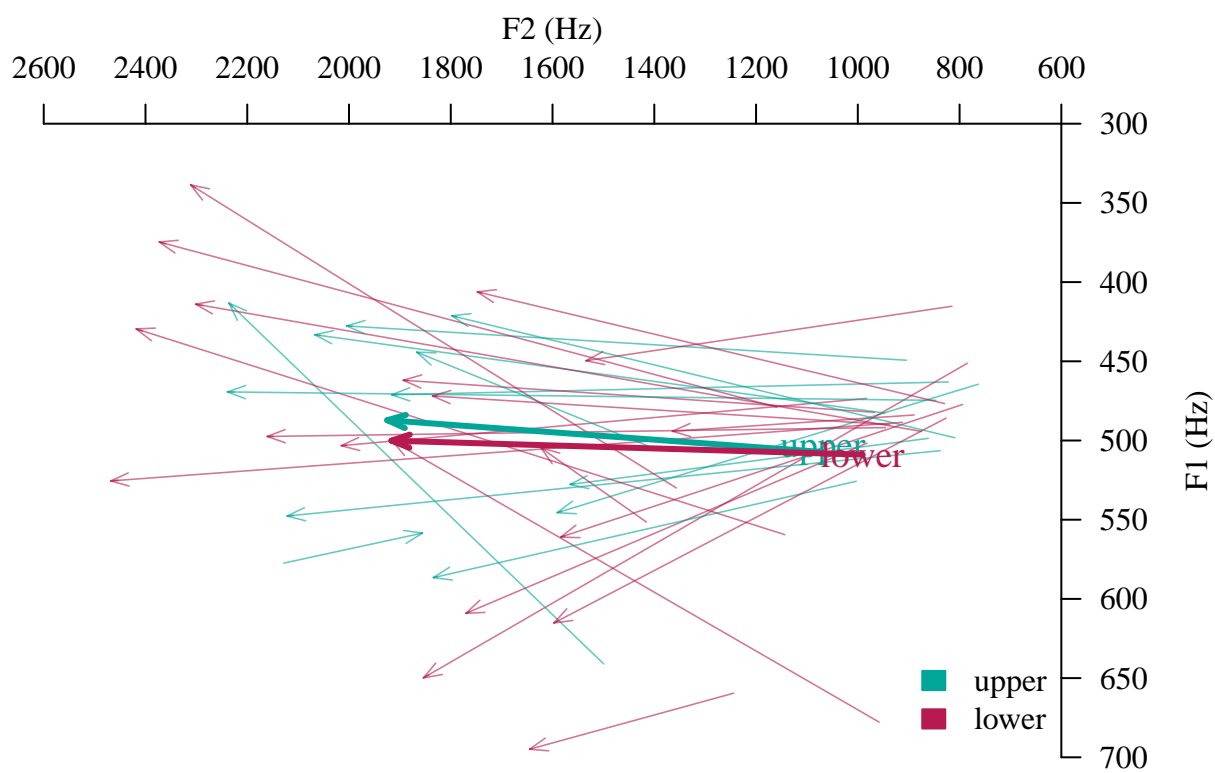


Plot of OW for LING20101 by home

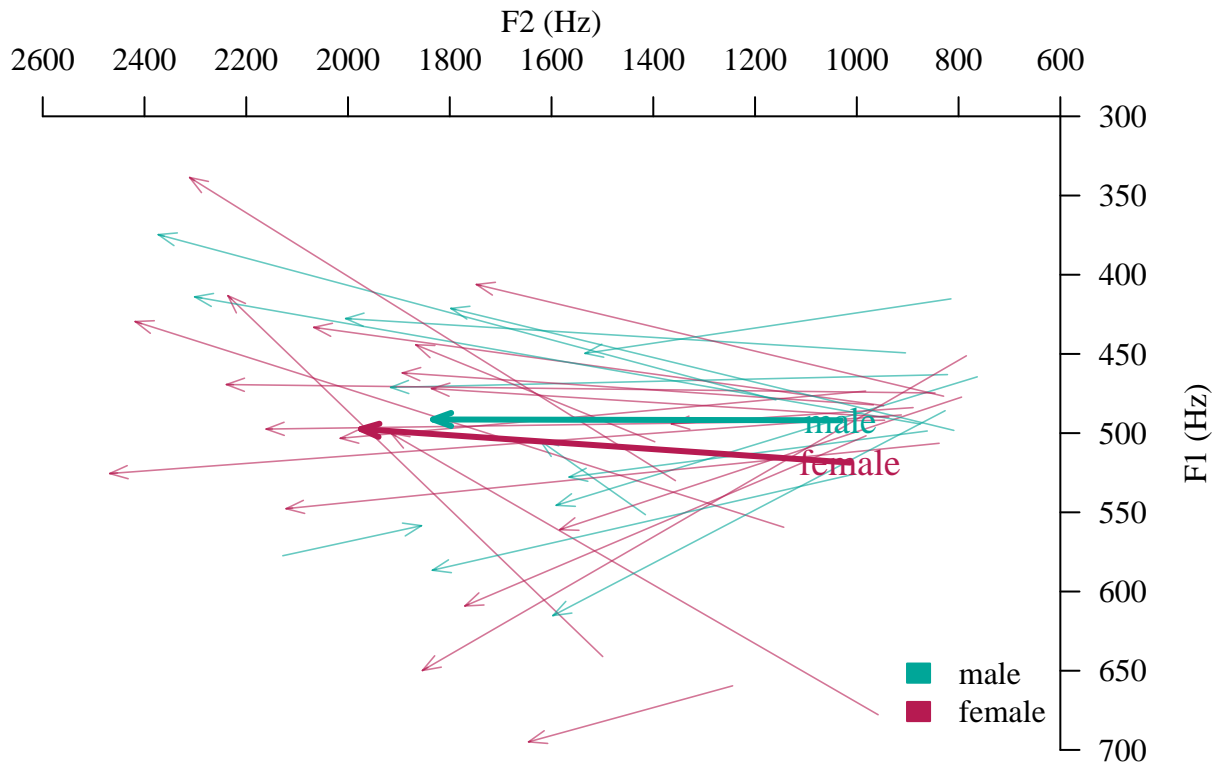


```
## [1] "PLOTS FOR VOWEL OY"
```

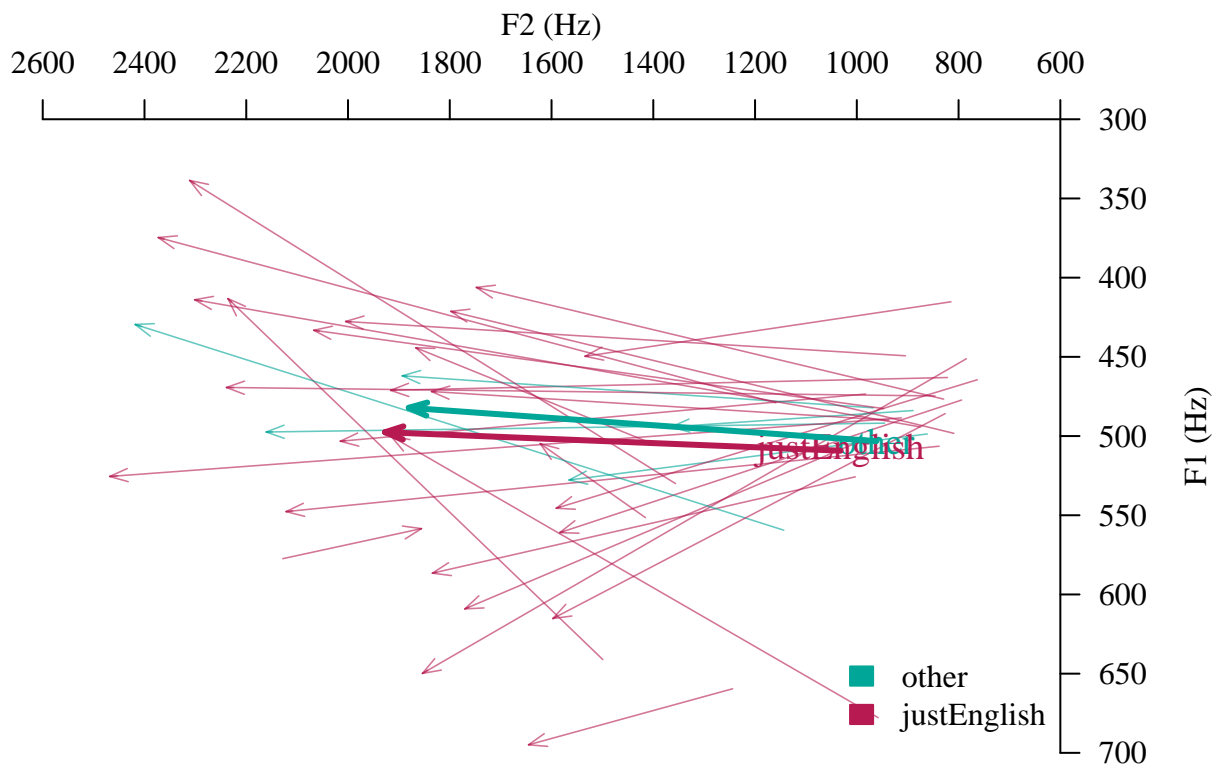
Plot of OY for LING20101 by year



Plot of OY for LING20101 by sex



Plot of OY for LING20101 by additional native language





Plot of OY for LING20101 by home

