

## egameps.sty examples

Martin J. Osborne

2010-11-4

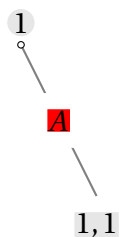
```
\documentclass[12pt]{article}
\usepackage{mjoarti}
\usepackage{pstricks}
\usepackage{egameps}

\oddsidemargin1in
\topmargin0pt

\begin{document}
\renewcommand{\egalboxfillstyle}{solid}
\renewcommand{\egalboxfillcolor}{red}
\renewcommand{\egalbox}{f}
\renewcommand{\egpayboxfillstyle}{solid}
\renewcommand{\egpayboxfillcolor}{verylightgray}
\renewcommand{\egpaybox}{f}
\renewcommand{\egplbox}{c}
\renewcommand{\egplboxfillstyle}{solid}
\renewcommand{\egplboxfillcolor}{verylightgray}
\psset{arrowscale=1.5}
\egactionlabelsep=1mm
\egactionboxsep=0mm
\renewcommand{\egalpos}{c}
\def\egdirection{d}
```

### 1. One branch

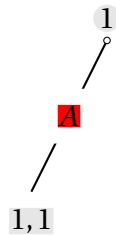
```
\putbranch(50,240)(1,-2)[d]{100}
\ib[linecolor=gray]{1}{A$}[$1,1$]:
```



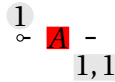
`\putbranch(50,240)(0,-2)[d]{100}`  
`\ib{1}{A}[$1,1$]:`



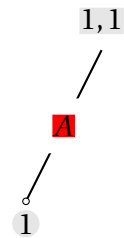
`\putbranch(50,240)(-1,-2)[d]{100}`  
`\ib{1}{A}[$1,1$]:`



`\putbranch(0,40)(1,0)[d]{100}`  
`\ib{1}{A}[$1,1$]:`



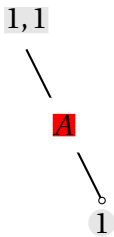
`\putbranch(50,0)(1,2)[u]{100}`  
`\ib{1}{A}[$1,1$]:`



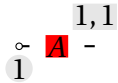
`\putbranch(50,0)(0,2)[u]{100}`  
`\ib{1}{A}[$1,1$]:`



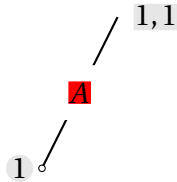
`\putbranch(50,0)(-1,2)[u]{100}`  
`\ib{1}{A}[$1,1$]:`



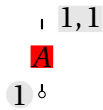
`\putbranch(0,40)(1,0)[u]{100}`  
`\ib{1}{A}[$1,1$]:`



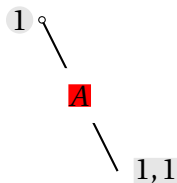
`\putbranch(50,0)(1,2)[r]{100}`  
`\ib{1}{A}[$1,1$]:`



`\putbranch(50,0)(0,2)[r]{100}`  
`\ib{1}{A}[$1,1$]:`



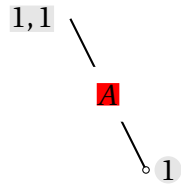
`\putbranch(50,240)(1,-2)[r]{100}`  
`\ib{1}{A}[$1,1$]:`



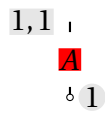
`\putbranch(0,40)(1,0)[r]{100}`  
`\ib{1}{A}[$1,1$]:`



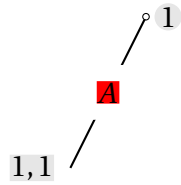
```
\putbranch(50,0)(1,2)[l]{100}
\ib{1}{A}[$1,1$]:
```



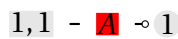
```
\putbranch(50,0)(0,2)[l]{100}
\ib{1}{A}[$1,1$]:
```



```
\putbranch(50,240)(-1,-2)[l]{100}
\ib{1}{A}[$1,1$]:
```

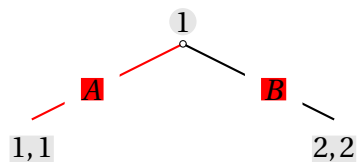


```
\putbranch(0,40)(-1,0)[l]{100}
\ib{1}{A}[$1,1$]:
```

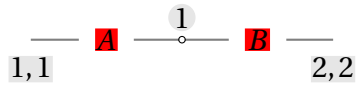


## 2. Two branches

```
\putbranch(50,240)(2,-1)[d]{200}
\egalhshift=20
\iib[linecolor=red][1]{A}{B}[$1,1$][$2,2$]:
```



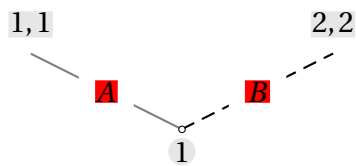
```
\putbranch(50,240)(2,0)[d]{200}
\iib[linecolor=gray]{1}[c]{$A$}{$B$}[c][\$1,1$][\$2,2$]:
```



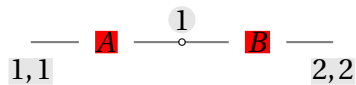
```
\putbranch(50,240)(0,2)[d]{200}
\iib[linecolor=gray]{1}[c]{$A$}{$B$}[$1,1$][$2,2$]:
```



```
\putbranch(50,120)(2,1)[u]{200}
\iib[linecolor=gray][linestyle=dashed]{1}[c]{$A$}{$B$}[c][\$1,1$][\$2,2$]:
```



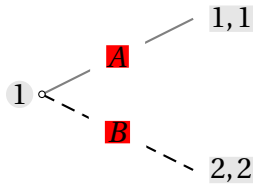
```
\putbranch(50,240)(2,0)[u]{200}
\iib[linecolor=gray]{1}[c]{$A$}{$B$}[c][\$1,1$][\$2,2$]:
```



```
\putbranch(50,240)(0,2)[u]{200}
\iib[linecolor=gray]{1}[c]{$A$}{$B$}[c][\$1,1$][\$2,2$]:
```



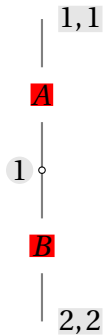
```
\putbranch(50,150)(2,1)[r]{200}
\iib[linecolor=gray][linestyle=dashed]{1}[c]{$A$}{$B$}[c] [$1,1$] [$2,2$] :
```



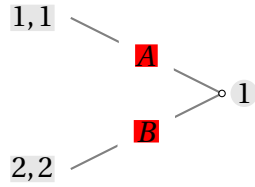
```
\putbranch(50,240)(2,0)[r]{200}
\iib[linecolor=gray]{1}[c]{$A$}{$B$}[c] [$1,1$] [$2,2$] :
```



```
\putbranch(50,180)(0,2)[r]{200}
\iib[linecolor=gray]{1}[c]{$A$}{$B$}[c] [$1,1$] [$2,2$] :
```



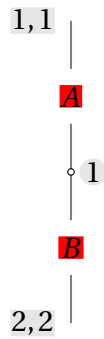
```
\putbranch(50,240)(2,1)[l]{200}
\iib[linecolor=gray]{1}[c]{$A$}{$B$}[c] [$1,1$] [$2,2$] :
```



```
\putbranch(50,240)(2,0)[1]{200}
\iib[linecolor=gray]{1}[c]{$A$}{$B$}[c][1,1][2,2]:
```

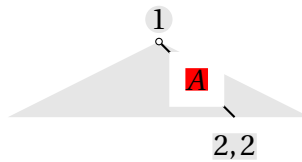


```
\putbranch(50,180)(0,2)[1]{200}
\iib[linecolor=gray]{1}[c]{$A$}{$B$}[c][1,1][2,2]:
```

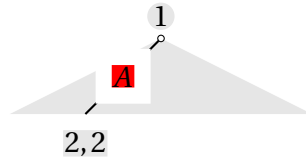


### 3. Continuum of branches

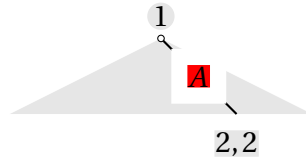
```
\putbranch(50,240)(2,-1)[d]{200}
\ctmb{1}(1,1){$A$}[2,2]:
```



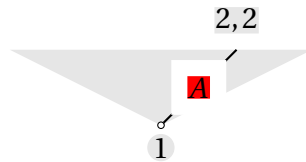
```
\putbranch(50,240)(2,-1)[d]{200}
\ctmb{1}(-1,1){$A$}[2,2]:
```



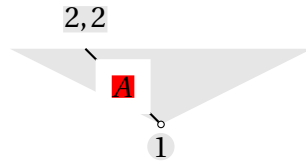
`\putbranch(50,240)(2,-1)[d]{200}`  
`\ctmb{1}(1,-1){$A$}[$2,2$]:`



`\putbranch(50,240)(2,-1)[u]{200}`  
`\ctmb{1}(1,1){$A$}[$2,2$]:`

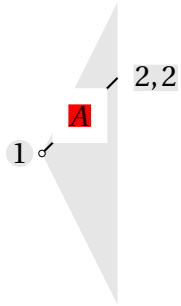


`\putbranch(50,240)(2,-1)[u]{200}`  
`\ctmb{1}(-1,1){$A$}[$2,2$]:`

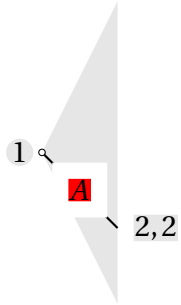


`\putbranch(50,240)(1,-2)[r]{100}`  
`\ctmb{1}(1,1){$A$}[$2,2$]:`

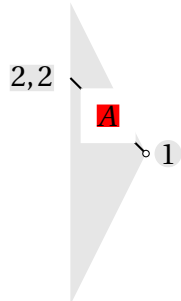




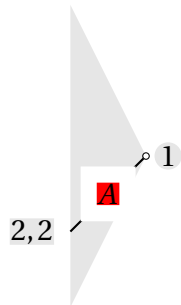
```
\putbranch(50,160)(1,-2)[r]{100}
\ctmb{1}(1,-1){$A$}[$2,2$]:
```



```
\putbranch(50,160)(1,-2)[l]{100}
\ctmb{1}(1,1){$A$}[$2,2$]:
```

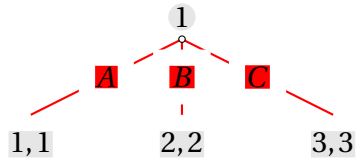


```
\putbranch(50,120)(1,-2)[l]{100}
\ctmb{1}(1,-1){$A$}[$2,2$]:
```

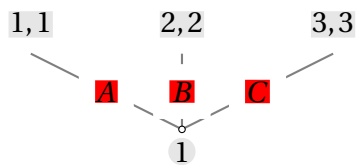


#### 4. Three branches

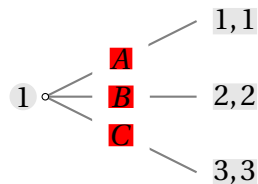
```
\putbranch(50,240)(2,-1)[d]{200}
\iiib[linecolor=red]{1}{{A$}{{B$}{{C$}[$1,1$] [$2,2$] [$3,3$]:
```



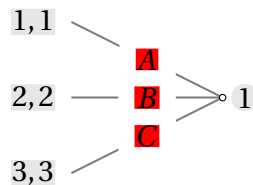
```
\putbranch(50,240)(2,1)[u]{200}
\iiib[linecolor=gray]{1}[c]{{A$}{{B$}{{C$}[$1,1$] [$2,2$] [$3,3$]:
```



```
\putbranch(50,240)(2,1)[r]{200}
\iiib[linecolor=gray]{1}[c]{{A$}{{B$}{{C$}[$1,1$] [$2,2$] [$3,3$]:
```

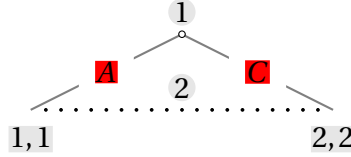


```
\putbranch(50,240)(2,1)[l]{200}
\iiib[linecolor=gray]{1}[c]{{A$}{{B$}{{C$}[$1,1$] [$2,2$] [$3,3$]:
```

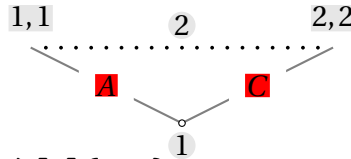


## 5. Information sets

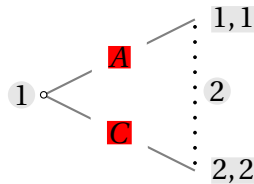
```
\putbranch(50,240)(2,1)[1]{200}
\iib[linecolor=gray]{1}[c]{$A$}{$B$}[$1,1$] [$2,2$]
\infoset(0,140){400}{2}:
```



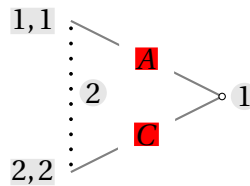
```
\putbranch(50,240)(2,1)[1]{200}
\iib[linecolor=gray]{1}[c]{$A$}{$B$}[$1,1$] [$2,2$]
\infoset(0,100){400}{2}:
```



```
\putbranch(0,240)(2,1)[r]{200}
\iib[linecolor=gray]{1}[c]{$A$}{$B$}[$1,1$] [$2,2$]
\infoset(200,30)[v]{230}{2}:
```



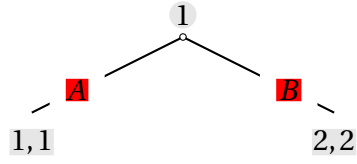
```
\putbranch(400,140)(2,1)[1]{200}
\iib[linecolor=gray]{1}[c]{$A$}{$B$}[$1,1$] [$2,2$]
\infoset(200,40)[v]{230}{2}:
```



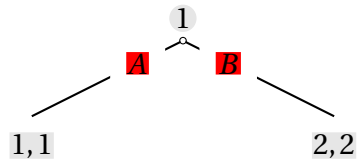
## 6. Shifts

### 6.1 Direction $d$

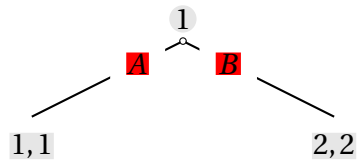
`\equalhshift=40`



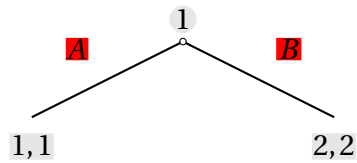
`\equalhshift=-40`



`\equalvshift=20`

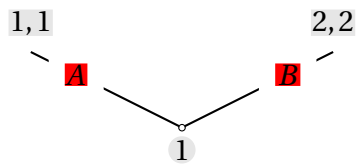


`\equalhshift=40\equalvshift=40`

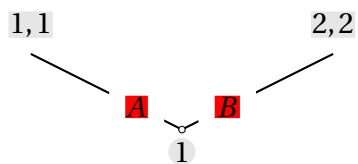


6.2 *Direction u*

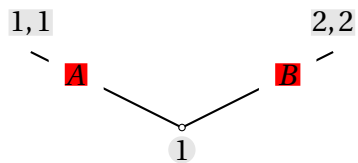
`\equalhshift=40`



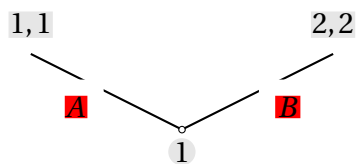
`\equalhshift=-40`



`\equalvshift=20`

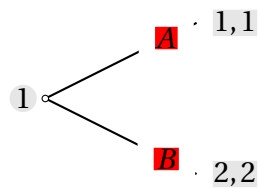


`\equalhshift=40\equalvshift=-20`

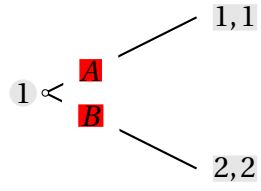


6.3 *Direction r*

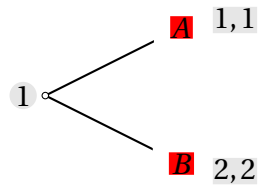
`\equalhshift=60`



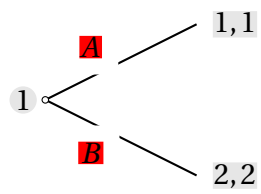
`\equalhshift=-40`



`\equalvshift=40`

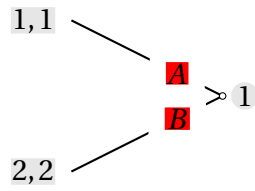


`\equalhshift=-40\equalvshift=20`

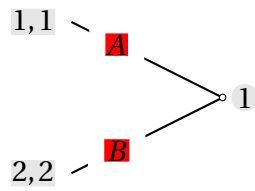


#### 6.4 Direction l

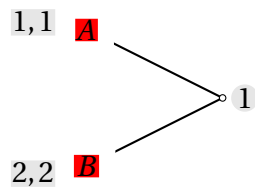
`\equalhshift=40`



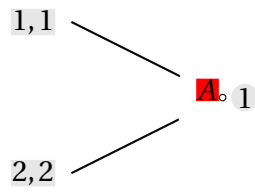
`\equalhshift=-40`



`\equalvshift=40`



`\equalvshift=-40`



`\equalhshift=40\equalvshift=-20`

