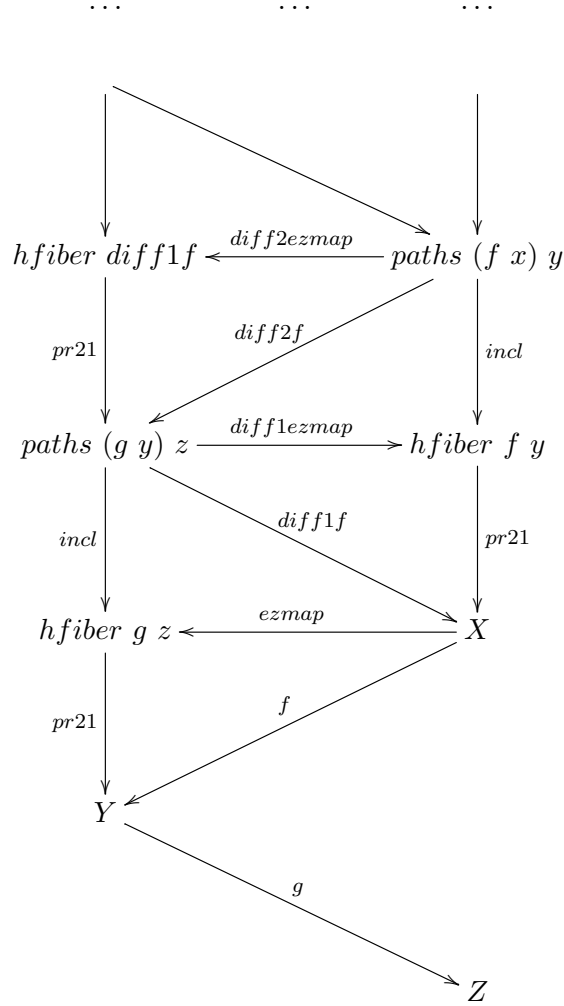


# Diagrams and other comments for the "foundations" files.

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Started October 9, 2010

## Fibration sequences



## Fibration sequences generated by a function

$fibseq1$	$X\ Y\ f\ y$	$hfiber\ f\ y$	$\xrightarrow{d1f}$	$X$	$\xrightarrow{f}$	$(Y, y)$
$fibseq2$	$X\ Y\ f\ y\ x$	$paths\ (f\ x)\ y$	$\xrightarrow{d2f}$	$hfiber\ f\ y$	$\xrightarrow{d1f}$	$(X, x)$
$fibseq3$	$X\ Y\ f\ y\ x\ x'$	$paths\ x'\ x$	$\xrightarrow{d3f}$	$paths\ (f\ x)\ y$	$\xrightarrow{d2f}$	$(hfiber\ f\ y, x')$
$fibseq4$	$X\ Y\ f\ y\ x\ x'\ e$	$paths\ (x, e)\ x'$	$\xrightarrow{d4f}$	$paths\ x'\ x$	$\xrightarrow{d3f}$	$(paths\ (f\ x)\ y, e)$

# Fibration sequence generated by two composable functions

$$hfibers \quad X \, Y \, Z \, f \, g \, z \, ye \quad hfiber \, f \, (pr21 \, ye) \xrightarrow{hfibersftogf} hfiber \, (g \circ f) \, z \xrightarrow{hfibersgftog} (hfiber \, g \, z, ye)$$