

$f(t)$	$F(w)$		
$f(t)$	$\int_{-\infty}^{\infty} e^{-jwt} f(t) dt$		
$af(t) + bg(t)$	$aF(w) + bG(w)$		
$f(t - a)$	$e^{-jaw} F(w)$		
$f(t)e^{jat}$	$F(w - a)$		
$f(at)$	$\frac{1}{ a } F(\frac{w}{a})$		
$\frac{d^n t f(t)}{dt^n}$	$(jw)^n F(w)$		
$t^n f(t)$	$(j)^n \frac{d^n w F(w)}{dw^n}$		
$(f \star g)(t)$	$F(w)G(w)$		
$f(t)\cos(at)$	$\frac{1}{2}(F(w - a) + F(w + a))$		
$f(t)\sin(at)$	$\frac{1}{2j}(F(w - a) - F(w + a))$		
$rect(at)$	$\frac{1}{\sqrt{2\pi a^2}} sinc(w - \frac{w}{2\pi a})$		
$sinc(at)$	$\frac{1}{\sqrt{2\pi a^2}} rect(w - \frac{w}{2\pi a})$		
$e^{-at}u(t)$	$\frac{1}{\sqrt{2\pi}(a+jw)}$		
1	$\sqrt{2\pi}\delta(w)$		
$\delta(t)$	$\frac{1}{\sqrt{2\pi}}$		
e^{jat}	$\sqrt{2\pi}\delta(w - a)$		
$\cos(at)$	$\frac{\sqrt{2\pi}}{2}(\delta(w - a) + \delta(w + a))$		
$\sin(at)$	$\frac{\sqrt{2\pi}}{2j}(\delta(w - a) - \delta(w + a))$		
$\frac{1}{t}$	$-j\sqrt{\frac{\pi}{2}}sign(w)$		

For the L^AT_EXfile see

<https://github.com/joey-kilgore/playground> and look for the practiceTransforms folder